



ESTD: 1994

K.L.N. COLLEGE OF ENGINEERING

(Sivagangai District - 630 612, Tamilnadu | 11km from Madurai City)

Accredited by NAAC, New Delhi

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(Accredited by NBA, New Delhi | Affiliated to Anna University, Chennai)

THE
ATTAINMENT BOOK
CO, PO, PSO ATTAINMENT
2015 - 2019 BATCH

K.L.N. COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VISION AND MISSION OF THE INSTITUTE

VISION:

To become a Premier Institute of National Repute by Providing Quality Education, Successful Graduation, Potential Employability and Advanced Research & Development through Academic Excellence.

MISSION:

To Develop and Make Students Competent Professional in the Dynamic Environment in the field of Engineering, Technology and Management by emphasizing Research, Social Concern and Ethical Values through Quality Education System.

VISION AND MISSION OF THE DEPARTMENT

VISION:

To become a high standard of excellence in Education, Training and Research in the field of Electrical & Electronics Engineering and allied applications.

MISSION:

To produce excellent, innovative and Nationalistic Engineers with Ethical Values and to advance in the field of Electrical & Electronics Engineering and allied areas.

PROGRAM OUTCOMES (POs)

Electrical and Electronics Engineering Graduates will be able to:

PO1: Engineering knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis:

Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability:

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication:

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning:

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

Electrical and Electronics Engineering Graduates will be able to:

PSO1:

Apply the fundamentals of mathematics, science and engineering knowledge to identify, formulate, design and investigate complex engineering problems of electric circuits, analog and digital electronic circuits, electrical machines and power systems.

PSO2:

Apply appropriate techniques and modern Engineering hardware and software tools in power systems to engage in life- long learning and to successfully adapt in multi-disciplinary environments.

PSO3:

Understand the impact of Professional Engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

K.L.N. COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
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S.No	Course code	Course	Course Name	Page Number	
				CO	CO Calculation
SEMESTER-I					
1.	C101	HS6151	Technical English - I	11	71
2.	C102	MA6151	Mathematics - I	11	74
3.	C103	PH6151	Engineering Physics - I	11	77
4.	C104	CY6151	Engineering Chemistry - I	11	80
5.	C105	GE6151	Computer Programming	12	83
6.	C106	GE6152	Engineering Graphics	12	86
7.	C107	GE6161	Computer Practices Laboratory	12	89
8.	C108	GE6162	Engineering Practices Laboratory	12	92
9.	C109	GE6163	Physics and Chemistry Laboratory - I	13	95
SEMESTER-II					
1	C110	HS6251	Technical English - II	13	98
2	C111	MA6251	Mathematics - II	13	101
3	C112	PH6251	Engineering Physics - II	13	104
4	C113	CY6251	Engineering Chemistry - II	14	107
5	C114	GE6251	Basic Civil and Mechanical Engineering	14	110
6	C115	EE6201	Circuit Theory	14	113
7	C116	GE6262	Physics and Chemistry Laboratory - II	14	116
8	C117	GE6263	Computer Programming Laboratory	15	119
9	C118	EE6211	Electric Circuits Laboratory	15	122
SEMESTER-III					
1	C201	MA6351	Transforms and Partial Differential Equations	15	125
2	C202	EE6301	Digital Logic Circuits	15	128
3	C203	EE6302	Electromagnetic Theory	15	131
4	C204	GE6351	Environmental Science and Engineering	16	134
5	C205	EC6202	Electronic Devices and Circuits	16	137
6	C206	EE6303	Linear Integrated Circuits and Applications	16	140
7	C207	EC6361	Electronics Laboratory	16	143
8	C208	EE6311	Linear and Digital Integrated Circuits Laboratory	17	146
SEMESTER-IV					
1	C209	MA6459	Numerical Methods	17	149
2	C210	EE6401	Electrical Machines - I	17	152
3	C211	CS6456	Object Oriented Programming	17	155
4	C212	EE6402	Transmission and Distribution	17	158
5	C213	EE6403	Discrete Time Systems and Signal Processing	18	161
6	C214	EE6404	Measurements and Instrumentation	18	164
7	C215	CS6461	Object Oriented Programming Laboratory	18	167
8	C216	EE6411	Electrical Machines Laboratory - I	18	170
SEMESTER-V					
1	C301	EE6501	Power System Analysis	19	173
2	C302	EE6502	Microprocessors and Microcontrollers	19	176
3	C303	ME6701	Power Plant Engineering	19	179
4	C304	EE6503	Power Electronics	20	182
5	C305	EE6504	Electrical Machines - II	20	185
6	C306	IC6501	Control Systems	20	188
7	C307	EE6511	Control and Instrumentation Laboratory	21	191
8	C308	GE6674	Communication and Soft Skills- Laboratory Based	21	194
9	C309	EE6512	Electrical Machines Laboratory - II	21	197

S.No	Course code	Course	Course Name	Page Number	
				CO	CO Calculation
SEMESTER-VI					
1	C310	EC6651	Communication Engineering	22	200
2	C311	EE6601	Solid State Drives	22	203
3	C312	EE6602	Embedded Systems	22	206
4	C313	EE6603	Power System Operation and Control	23	209
5	C314	EE6604	Design of Electrical Machines	23	212
6	C315E1	EE6002	Power System Transients	23	215
7	C316	EE6611	Power Electronics and Drives Laboratory	23	218
8	C317	EE6612	Microprocessors and Microcontrollers Laboratory	24	221
9	C318	EE6613	Presentation Skills and Technical Seminar	24	224
SEMESTER-VII					
1	C401	EE6701	High Voltage Engineering	24	227
2	C402	EE6702	Protection and Switchgear	24	230
3	C403	EE6703	Special Electrical Machines	25	233
4	C404	MG6851	Principles of Management	25	236
5	C405E2	EE6005	Power Quality	25	239
6	C406E3	EE6008	Microcontroller Based System Design	25	241
7	C407	EE6711	Power System Simulation Laboratory	26	245
8	C408	EE6712	Comprehension	26	248
SEMESTER-VIII					
1	C409	EE6801	Electric Energy Generation, Utilization and Conservation	26	251
2	C410E4	EE6009	Power Electronics for Renewable Energy Systems	26	254
3	C411E5	GE6757	Total Quality Management	27	257
4	C412	EE6811	Project Work	27	260

Typical Calculation

For **First Year** Subjects, the following calculation is made:

1. Test (CIT's)

- a. Students Present = **X** No. of Students
- b. Target = **60** Marks
- c. Count "Students (**X**) $\geq$ **60** Marks" = **Y** No. of Students
- d. Percentage (**P**) = $\left[\frac{Y}{X} \times 100 \right] \%$
 - i. If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - ii. If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - iii. If **P** $\geq$ 60%, Level Obtained = 1 (Low)

2. Assignment (A)

- a. Students Present = **X** No. of Students
- b. Target = **80** Marks
- c. Count "Students (**X**) $\geq$ **80** Marks" = **Y** No. of Students
- d. Percentage (**P**) = $\left[\frac{Y}{X} \times 100 \right] \%$
 - i. If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - ii. If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - iii. If **P** $\geq$ 60%, Level Obtained = 1 (Low)

3. Anna University Examination (AU)

- a. Students Present = **X** No. of Students
- b. Target = **70** Marks (or **C** Grade)
- c. Count "Students (**X**) $\geq$ **C** Grade" = **Y** No. of Students
- d. Percentage (**P**) = $\left[\frac{Y}{X} \times 100 \right] \%$
 - i. If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - ii. If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - iii. If **P** $\geq$ 60%, Level Obtained = 1 (Low)

4. Attainment Calculation

Internal Test (IT)	Assignment(A)	Formula for Internal Assessment (IA)	Direct Attainment
✓		IA = IT	DA = 0.6*AU + 0.4*IA
✓	✓	IA = 0.7XIT + 0.3XA	

For **Second & Third Year** Subjects, the following calculation is made:

1. Test (CIT's)

- a. Students Present = **X** No. of Students
- b. Target = **60** Marks
- c. Count "Students (**X**) $\geq$ **60** Marks" = **Y** No. of Students
- d. Percentage (**P**) = $\left[\frac{Y}{X} \times 100 \right] \%$
 - i. If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - ii. If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - iii. If **P** $\geq$ 60%, Level Obtained = 1 (Low)

2. Assignment (A)

- Students Present = **X** No. of Students
- Target = **80** Marks
- Count “Students (**X**) $\geq$ **80** Marks” = **Y** No. of Students
- Percentage (**P**) = $[(Y/X) * 100] \%$
 - If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - If **P** $\geq$ 60%, Level Obtained = 1 (Low)

3. Anna University Examination (AU)

- Students Present = **X** No. of Students
- Target = **70** Marks (or **C** Grade)
- Count “Students (**X**) $\geq$ **C** Grade” = **Y** No. of Students
- Percentage (**P**) = $[(Y/X) * 100] \%$
 - If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - If **P** $\geq$ 60%, Level Obtained = 1 (Low)

4. Survey (S)

- If **S** $\geq$ 80%, Level Obtained = 3 (High)
- If **S** $\geq$ 70%, Level Obtained = 2 (Medium)
- If **S** $\geq$ 60%, Level Obtained = 1 (Low)

5. Attainment Calculation

Internal Test (IT)	Assignment(A)	Formula for Internal Assessment (IA)	Direct Attainment	Overall Attainment
✓		IA = IT	DA = 0.6*AU + 0.4*IA	CO=0.8*DA + 0.2*S
✓	✓	IA = 0.7XIT + 0.3XA		

For **Final Year** Subjects, the following calculation is made:

1. Test (CIT's)

- Students Present = **X** No. of Students
- Target = **60** Marks
- Count “Students (**X**) $\geq$ **60** Marks” = **Y** No. of Students
- Percentage (**P**) = $[(Y/X) * 100] \%$
 - If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - If **P** $\geq$ 60%, Level Obtained = 1 (Low)

2. Assignment (A)

- Students Present = **X** No. of Students
- Target = **80** Marks
- Count “Students (**X**) $\geq$ **80** Marks” = **Y** No. of Students
- Percentage (**P**) = $[(Y/X) * 100] \%$
 - If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - If **P** $\geq$ 60%, Level Obtained = 1 (Low)

3. Anna University Examination (AU)

- Students Present = **X** No. of Students
- Target = **70** Marks (or **C** Grade)
- Count “Students (**X**) $\geq$ **C** Grade” = **Y** No. of Students
- Percentage (**P**) = $[(Y/X) * 100] \%$
 - If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - If **P** $\geq$ 60%, Level Obtained = 1 (Low)

4. Survey (S)

- If **S** $\geq$ 80%, Level Obtained = 3 (High)
- If **S** $\geq$ 70%, Level Obtained = 2 (Medium)
- If **S** $\geq$ 60%, Level Obtained = 1 (Low)

5. Seminar, Quiz and Tutorial

- Students Present = **X** No. of Students
- Target = **65** Marks (or **C** Grade)
- Count “Students (**X**) $\geq$ **65** Marks” = **Y** No. of Students
- Percentage (**P**) = $[(Y/X) * 100] \%$
 - If **P** $\geq$ 80%, Level Obtained = 3 (High)
 - If **P** $\geq$ 70%, Level Obtained = 2 (Medium)
 - If **P** $\geq$ 60%, Level Obtained = 1 (Low)

6. Attainment Calculation

Internal Test (IT)	Assignment(A)	Tutorial(T)	Seminar(S)/ Quiz(Q)	Others (O)	Formula for Internal Assessment (IA)
✓					IA = IT
✓				✓	IA = 0.8XIT + 0.2XO
✓			✓		IA = 0.8XIT + 0.2XS/Q
✓			✓	✓	IA = 0.7XIT + 0.2XS/Q + 0.1XO
✓		✓			IA = 0.7XIT + 0.3XT
✓		✓		✓	IA = 0.7XIT + 0.2XT + 0.1XO
✓		✓	✓		IA = 0.7XIT + 0.2XT + 0.1XS/Q
✓		✓	✓	✓	IA = 0.6XIT + 0.2XT + 0.1XS/Q + 0.1XO
✓	✓				IA = 0.7XIT + 0.3XA
✓	✓			✓	IA = 0.7XIT + 0.2XA + 0.1XO
✓	✓		✓		IA = 0.7XIT + 0.2XA + 0.1XS/Q
✓	✓		✓	✓	IA = 0.6XIT + 0.2XA + 0.1XS/Q + 0.1XO
✓	✓	✓			IA = 0.6XIT + 0.2XA + 0.2XT
✓	✓	✓		✓	IA = 0.6XIT + 0.1XA + 0.2XT + 0.1XO
✓	✓	✓	✓		IA = 0.6XIT + 0.1XA + 0.2XT + 0.1XS/Q
✓	✓	✓	✓	✓	IA = 0.6XIT + 0.1XA + 0.1XT + 0.1XS/Q + 0.1XO

K.L.N. COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
REGULATION: 2013-Chennai
Batch- 2015-2019

B.E-EEE- I to VIII SEMESTER CURRICULUM

S.No	Course code	Course	Course Name	L	T	P	C
SEMESTER-I							
1.	C101	HS6151	Technical English - I	3	1	0	4
2.	C102	MA6151	Mathematics - I	3	1	0	4
3.	C103	PH6151	Engineering Physics - I	3	0	0	3
4.	C104	CY6151	Engineering Chemistry - I	3	0	0	3
5.	C105	GE6151	Computer Programming	3	0	0	3
6.	C106	GE6152	Engineering Graphics	2	0	3	4
7.	C107	GE6161	Computer Practices Laboratory	0	0	3	2
8.	C108	GE6162	Engineering Practices Laboratory	0	0	3	2
9.	C109	GE6163	Physics and Chemistry Laboratory - I	0	0	2	1
SEMESTER-II							
1.	C110	HS6251	Technical English - II	3	1	0	4
2.	C111	MA6251	Mathematics - II	3	1	0	4
3.	C112	PH6251	Engineering Physics - II	3	0	0	3
4.	C113	CY6251	Engineering Chemistry - II	3	0	0	3
5.	C114	GE6251	Basic Civil and Mechanical Engineering	4	0	0	4
6.	C115	EE6201	Circuit Theory	3	1	0	4
7.	C116	GE6262	Physics and Chemistry Laboratory - II	0	0	2	1
8.	C117	GE6263	Computer Programming Laboratory	0	1	2	2
9.	C118	EE6211	Electric Circuits Laboratory	0	0	3	2
SEMESTER-III							
1.	C201	MA6351	Transforms and Partial Differential Equations	3	1	0	4
2.	C202	EE6301	Digital Logic Circuits	3	1	0	4
3.	C203	EE6302	Electromagnetic Theory	3	1	0	4
4.	C204	GE6351	Environmental Science and Engineering	3	0	0	3
5.	C205	EC6202	Electronic Devices and Circuits	3	1	0	4
6.	C206	EE6303	Linear Integrated Circuits and Applications	3	0	0	3
7.	C207	EC6361	Electronics Laboratory	0	0	3	2
8.	C208	EE6311	Linear and Digital Integrated Circuits Laboratory	0	0	3	2
SEMESTER-IV							
1.	C209	MA6459	Numerical Methods	3	1	0	4
2.	C210	EE6401	Electrical Machines - I	3	1	0	4
3.	C211	CS6456	Object Oriented Programming	3	0	0	3
4.	C212	EE6402	Transmission and Distribution	3	0	0	3
5.	C213	EE6403	Discrete Time Systems and Signal Processing	3	0	0	3
6.	C214	EE6404	Measurements and Instrumentation	3	0	0	3
7.	C215	CS6461	Object Oriented Programming Laboratory	0	0	3	2
8.	C216	EE6411	Electrical Machines Laboratory - I	0	0	3	2

S.No	Course code	Course	Course Name	L	T	P	C
SEMESTER-V							
1.	C301	EE6501	Power System Analysis	3	0	0	3
2.	C302	EE6502	Microprocessors and Microcontrollers	3	0	0	3
3.	C303	ME6701	Power Plant Engineering	3	0	0	3
4.	C304	EE6503	Power Electronics	3	0	0	3
5.	C305	EE6504	Electrical Machines - II	3	1	0	4
6.	C306	IC6501	Control Systems	3	1	0	4
7.	C307	EE6511	Control and Instrumentation Laboratory	0	0	3	2
8.	C308	GE6674	Communication and Soft Skills- Laboratory Based	0	0	4	2
9.	C309	EE6512	Electrical Machines Laboratory - II	0	0	3	2
SEMESTER-VI							
1.	C310	EC6651	Communication Engineering	3	0	0	3
2.	C311	EE6601	Solid State Drives	3	0	0	3
3.	C312	EE6602	Embedded Systems	3	0	0	3
4.	C313	EE6603	Power System Operation and Control	3	0	0	3
5.	C314	EE6604	Design of Electrical Machines	3	1	0	4
6.	C315E1	EE6002	Power System Transients	3	0	0	3
7.	C316	EE6611	Power Electronics and Drives Laboratory	0	0	3	2
8.	C317	EE6612	Microprocessors and Microcontrollers Laboratory	0	0	3	2
9.	C318	EE6613	Presentation Skills and Technical Seminar	0	0	2	1
SEMESTER-VII							
1.	C401	EE6701	High Voltage Engineering	3	0	0	3
2.	C402	EE6702	Protection and Switchgear	3	0	0	3
3.	C403	EE6703	Special Electrical Machines	3	0	0	3
4.	C404	MG6851	Principles of Management	3	0	0	3
5.	C405E2	EE6005	Power Quality	3	0	0	3
6.	C406E3	EE6008	Microcontroller Based System Design	3	0	0	3
7.	C407	EE6711	Power System Simulation Laboratory	0	0	3	2
8.	C408	EE6712	Comprehension	0	0	2	1
SEMESTER-VIII							
1.	C409	EE6801	Electric Energy Generation, Utilization and Conservation	3	0	0	3
2.	C410E4	EE6009	Power Electronics for Renewable Energy Systems	3	0	0	3
3.	C411E5	GE6757	Total Quality Management	3	0	0	3
4.	C412	EE6811	Project Work	0	0	12	6

K.L.N. COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
REGULATION – 2013

B.E. ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE OUTCOMES (CO)

HS6151-Technical English-I [C101]

C101.1	Apply the collaborative and social aspects of research and writing processes.
C101.2	Comprehend that research and writing is a series of tasks, including accessing, retrieving, evaluating, analyzing and synthesizing appropriate data and information from sources that vary in content, format, structure and scope.
C101.3	Use appropriate technologies to organize, present and communicate information to address a range of audiences, purposes and genres.
C101.4	Explain the relationships among language, knowledge and power including social, cultural, historical and economic issues related to information, writing and technology.
C101.5	Demonstrate the role of a variety of technologies/ media in accessing, retrieving, managing and communicating information.

MA6151-Mathematics-I [C102]

C102.1	Find the eigen values and eigen vectors to diagonalise and reduce a matrix to quadratic form
C102.2	Check the converges, diverges of infinite series
C102.3	Obtain the evaluate and envelopes of a given curves by means of radius and centre of curvature
C102.4	Calculate the maxima and minima value functions of two variables
C102.5	Find the area of plain curves and volume of solid using double and triple integrals

PH6151-Engineering Physics-I [C103]

C103.1	Classify the Bravais lattices and different types of crystal structures and growth technique.
C103.2	Demonstrate the properties of elasticity and heat transfer through objects.
C103.3	Explain black body radiation, properties of matter waves and Schrodinger wave equations.
C103.4	Illustrate the acoustic requirements, production and application of ultrasonics.
C103.5	Examine the characteristics of laser and optical fiber.

CY6151 -Engineering Chemistry – I (C104)

C104.1	Classify the polymers and their utility in the industries and describe the techniques of polymerization & properties of polymers.
C104.2	Relate various thermodynamic functions such as enthalpy, entropy, free energy and their importance and equilibrium constant and its significance.
C104.3	Characterize the photophysical processes such as fluorescence and phosphorescence and various components of UV & IR spectrophotometer.
C104.4	Analyze the phase transitions of one component and two component systems and the types of alloys and their application in industries.
C104.5	Describe the synthesis, characteristics and the applications of nano materials.

GE6151-Computer Programming-[C105]

C105.1	Explain the basic organization of computers, the number systems and write the pseudo code for algorithms and flow chart.
C105.2	Develop 'C' programming fundamentals, looping statements and solve problems.
C105.3	Design 'C' programs for arrays and strings.
C105.4	Use functions with pass by value and reference, pointers in programs.
C105.5	Develop codings in 'C' for structures and unions with storage classes and preprocessor.

GE6152- Engineering Graphics [C106]

C106.1	Construct the conic sections and special curves and outline their practical applications and sketch the orthographic views from pictorial views and models
C106.2	Apply the principles of orthographic projections of points in all quadrants, lines and planes in first quadrant.
C106.3	Draw the projections of simple solids like prisms, pyramids, cylinder and cone and obtain the traces of plane figures
C106.4	Design the sectional views of solids like cube, prisms, pyramids, cylinders & cones and Development of its lateral surfaces
C106.5	Apply the principles of isometric projection and perspective projection of simple solids and truncated prisms, pyramids, cone and cylinders

GE6161 – Computer Practices Laboratory – (C107)

C107.1	Prepare data using MS-word & Excel to visualize graphs, charts in MS-Excel.
C107.2	Outline the given problem using flowchart and to program using Switch case & Control structures.
C107.3	Develop the code using decision making & looping statements.
C107.4	Apply passing parameters using Arrays & Functions.
C107.5	Use structure and Union for a given database and to bring out the importance of Unions over structure.

GE6162 – Engineering Practices Laboratory – (C108)

C108.1	Demonstrate wiring for a simple residential house, identify the ratings of various appliances like Fluorescent tube, incandescent lamp, etc.
C108.2	Calculate the different Electrical quantities, measure the energy consumption using single phase energy meter.
C108.3	Measure the resistance to earth of an electrical equipment, analyze AC signal parameters using CRO.
C108.4	Verify the Truth tables of Logic gates AND, OR, EOR and NOT, generate clock signal using suitable gates.
C108.5	Develop soldering in a PCB, measure ripple factor of Half Wave Rectifier and Full Wave Rectifier.

GE6163 - Physics and Chemistry Laboratory – I (C109)

C109.1	Evaluate the wavelength of spectral lines using spectrometer, the wavelength of laser, particle size, acceptance angle of an optical fiber using semiconductor diode laser and the thickness of a thin wire through interference fringes using Air wedge apparatus.
C109.2	Appraise the velocity of sound and compressibility of the liquid using ultrasonic interferometer and thermal conductivity for bad conductors using Lee's disc apparatus.
C109.3	Determine the DO content in water sample by winkler's method and molecular weight of polymer by Ostwald viscometer.
C109.4	Find the strength of an acid using pH meter and conductometer.
C109.5	Estimate the amount of weak and strong acids in a mixture by conductometer.

HS6251-Technical English-II [C110]

C110.1	speak clearly, confidently, comprehensibly, and communicate with one or many listeners using appropriate communicative strategies
C110.2	Write cohesively and coherently and flawlessly avoiding grammatical errors, using a wide vocabulary range, organizing their ideas logically on a topic.
C110.3	Read different genres of texts adopting various reading strategies.
C110.4	listen/view and comprehend different spoken discourses/excerpts in different accents
C110.5	Recognize, understand, and analyze the context within which language, information, and knowledge are produced, managed, organized, and disseminated.

MA6251-Mathematics-II - [C111]

C111.1	Find solenoidal, irrotational vectors and explain the concepts of Green's, Gauss divergence, Stokes theorem to evaluate, single double and triple integrals
C111.2	Obtain the P.I. of Cauchy and Legendre Equation, explain the method of variation of parameters and solve simultaneous linear equations
C111.3	evaluate Laplace Transforms of periodic functions and solve the ODE using Inverse Laplace Transform
C111.4	Recall the properties of analytic functions for verifying C-R equations and determine Bilinear Transformation
C111.5	Expand functions of two variables as Taylor's and Laurent's series and evaluate Contour integrals using Cauchy's Integral formula

PH6251 – Engineering Physics–II – [C112]

C112.1	Illustrate classical and quantum free electron theory and calculate carrier concentration in metals.
C112.2	Describe the carrier concentration in semi conductors and identify the p-type and n-type semi conductor using hall effect.
C112.3	Classify the different types of magnetic and super conducting materials.
C112.4	Explain the dielectrics, types of polarization, losses and breakdown.
C112.5	Discuss the properties, preparation and applications of metallic alloys, SMA, nano materials, NLO, Bio-materials.

CY6251 – Engineering Chemistry –II – [C113]

C113.1	Explain the problems of using hard water in boilers and the methods of treatment of water for boiler use.
C113.2	Design the electrochemical cells and to identify the types of corrosion and the methods of preventing.
C113.3	Illustrate the methods of harnessing energy from non-conventional energy sources.
C113.4	Classify various engineering materials and their importance.
C113.5	Relate the significance of solid, liquid and gaseous fuels and to calculate the calorific values of fuels and the requirement of air for combustion in furnaces.

GE6251- Basic Civil and Mechanical Engineering - [C114]

C114.1	Explain the working principles of various power plants and differentiate the pumps and turbines.
C114.2	State the functions of IC engine and classify the various types of boilers.
C114.3	Apply the principles of vapour absorption and compression systems and Explain the Operation of air conditioner.
C114.4	Apply the principles of surveying and use various measurements for surveying and study about various engineering materials and leveling instruments.
C114.5	Classify the types of bridges, foundation, floorings, roofs, plasters and R.C.C structural members and state the purpose of dam.

EE 6201 – Circuit Theory – (C115)

C115.1	Apply Kirchhoff's current and voltage law to simple circuits and Solve complex circuits using Mesh & Nodal Methods.
C115.2	Apply Network theorems to solve simple and complex linear circuits.
C115.3	Solve the Series and Parallel resonance circuit, analyze the performance of single & double tuned circuits.
C115.4	Develop the Transient response of RLC circuits using Laplace Transform, explain the characteristics of two port networks.
C115.5	Explain three phase balanced and unbalanced star, delta network.

GE6262 - Physics and Chemistry Laboratory – II-[C116]

C116.1	Appraise the Young's modulus of the beam by uniform and non uniform bending method, the moment of inertia and Rigidity Modulus for thin wire using Torsion Pendulum.
C116.2	Use Poiseuille's method for determining the coefficient of viscosity of the liquid.
C116.3	Evaluate the refractive index of spectral lines for determining the dispersive power of a prism.
C116.4	Determine the type, amount of alkalinity , hardness in a given water sample and evaluate the amount of copper using EDTA method
C116.5	Examine the potentiometric redox titration and Conductometric precipitation titration.

GE6263-Computer Programming Laboratory-[C117]

C117.1	Explain UNIX Operating system and usage of file system.
C117.2	Apply Shell Commands for a given task using filter and pipe commands.
C117.3	Develop and implement the Shell scripts in VI editor.
C117.4	Develop C Program on Unix environment.
C117.5	Apply File handling in C to copy, merge and display the given file.

EE 6211 – Electric Circuits Laboratory – (C118)

C118.1	Apply KCL, KVL and Network Theorems to Simple and Complex circuits.
C118.2	Demonstrate the working of CRO and Determine the Time Constant of RC circuit.
C118.3	Determine frequency response of RLC circuits and Use MATLAB to simulate series, parallel resonant circuit, low pass, high pass filter.
C118.4	Use MATLAB to simulate three phase balanced, unbalanced circuit and Measure power in three phase circuits by two wattmeter methods.
C118.5	Determine h-parameters of Two port networks and Calibrate single phase energy meter

MA6351- Transforms and Partial Differential Equations[C201]

C201.1	Solve First, Second order homogeneous and non homogeneous partial differential equations
C201.2	Find the Fourier series of a given function satisfying Dirichlet's condition.
C201.3	Apply Fourier series to solve one dimensional wave, one and two dimensional heat equations.
C201.4	Determine Fourier transform for a given function and use them to evaluate certain definite Integrals
C201.5	Determine z transforms of standard functions and use them to solve difference equations

EE6301-Digital Logic Circuits-[C202]

C202.1	List the various types of number system and compare the digital logic families.
C202.2	Apply K –Map for simplification and implementation of combinational logic circuit.
C202.3	Explain the synchronous Sequential logic circuits and draw the block diagram of Shift Registers.
C202.4	Design asynchronous sequential circuits and describe the operation of Programmable Logic Devices.
C202.5	Develop the VHDL coding for combinational and Sequential logic circuits.

EE6302-Electromagnetic Theory – (C203)

C203.1	Explain the different coordinate systems, and apply Gauss's law
C203.2	Interpret the concepts of Electrostatic fields and apply boundary conditions on Electrostatic field
C203.3	Develop concepts of Magnetostatic fields and apply boundary conditions.
C203.4	Analyze the Maxwell's equations for electromagnetic fields
C203.5	Derive Electromagnetic wave equation and apply the Poynting expression.

GE6351 – Environmental Science and Engineering (C204)

C204.1	Define Environment, ecosystem and biodiversity, classify types of ecosystems and outline the impacts to biodiversity.
C204.2	Define pollution, classify its types, analyze the causes and suggest control measures for pollution.
C204.3	Outline various natural resources; explain causes and impacts of destruction of resources.
C204.4	List various social issues related to land, water and energy; summarize the concerning government acts and rules to overcome these problems.
C204.5	Interpret population explosion and variation among nations, show the impacts of over population and illustrate the methods to mitigate the same.

EC6202 - Electronic Devices and Circuits – [C205]

C205.1	Draw the characteristics of various types of Diodes, design half and full wave Rectifiers.
C205.2	Compare the different configurations of BJT, draw its characteristics.
C205.3	Calculate the FET parameters, draw its frequency response characteristics.
C205.4	Design Amplifier circuits and draw frequency response characteristics.
C205.5	Develop the parameters of feedback amplifier circuit, describe different types of oscillator circuits.

EE 6303 – Linear Integrated Circuits & Applications– (C206)

C206.1	Explain the procedure for the fabrication of IC
C206.2	Summarize the DC & AC characteristics of Operational amplifier.
C206.3	Discuss the applications of Operational amplifier
C206.4	Describe the internal functional blocks of special ICs like Timer and PLL.
C206.5	Classify types of voltage regulators and describe the special ICs.

EC6361 - Electronics Laboratory – [C207]

C207.1	Find the breakdown voltage of Diode, draw the V-I characteristics of BJT.
C207.2	Draw the equivalent circuit of JFET and develop the saw tooth waveform generation using UJT
C207.3	Design the Common Emitter amplifier and draw the V-I characteristics of photo diode & photo transistor
C207.4	Compare the theoretical and practical frequency value of oscillators and measure the ripple factor of rectifier
C207.5	Show the frequency response of filters, design the multivibrators

EE 6311 – Linear and Digital Integrated Circuits Laboratory– (C208)

C208.1	Apply Boolean functions to implement adder, subtractor circuits and convert Excess 3 to BCD, Binary to Gray code and vice versa
C208.2	Test Parity generator and checker and Design encoder decoder circuits
C208.3	Demonstrate 4 bit synchronous, asynchronous counter and Shift registers.
C208.4	Illustrate multiplexer demultiplexer circuit and apply 555 timer in Monostable and Astable operation.
C208.5	Apply OP-AMP to construct Adder, comparator, differentiator, Integrator and describe VCO, PLL characteristics.

MA6459-Numerical Methods-[C209]

C209.1	Determine the solution of algebraic and transcendental system of linear equations
C209.2	To interpolate the values of unknown functions using Newton's Formula
C209.3	Estimate the numerical values of the derivatives and integrals of unknown function
C209.4	Solve first and second order initial value problem
C209.5	Solve Numerically boundary value problem

EE6401-Electrical Machines-I- [C210]

C210.1	Describe the coupled coil calculate the self and mutually induced emf
C210.2	Analyze the operation of transformer in different loading condition
C210.3	Explain the concept of field energy and co-energy in single and multiple excited systems
C210.4	Demonstrate the construction of D.C machines and operation of DC Generator
C210.5	Derive the performance equation of D.C motor under various load condition and analyze the braking system

CS6456-Object Oriented Programming-[C211]

C211.1	Explain the key attributes of C++ like native types and statements and implement ADT.
C211.2	Develop object oriented programs using polymorphism and data abstraction concepts.
C211.3	Design templates, construct generics and to handle exceptions.
C211.4	Develop the concept of java in creating classes, objects using arrays and control statements.
C211.5	Create packages, handle exceptions and develop multi-threaded programs.

EE 6402 – Transmission and Distribution – (C212)

C212.1	Identify the basic elements of the electric power system, generation, transmission, distribution and describe the role played by each element.
C212.2	Compute the losses, efficiency and parameters of the Transmission line.
C212.3	Analyze the Performance of Transmission Lines.
C212.4	Solve the voltage distribution in insulator strings, cables and methods to improve the same.
C212.5	Design overhead lines both Mechanical and electrical aspects using Sag calculation.

EE6403-Discrete Time Systems and Signal Processing-[C213]

C213.1	Classify the different types of signals and systems and Explain the sampling process of continuous time signal.
C213.2	Apply z-transform and inverse Z transform and analyze discrete time systems.
C213.3	Apply Radix-2 Decimation in Time (DIT) and Decimation in Frequency (DIF)FFT Algorithm to Compute Discrete Fourier Transform.
C213.4	Explain different types of Infinite Impulse Response (IIR) filters and Finite Impulse Response (FIR) filters.
C213.5	Explain various architectures of Digital signal processors.

EE6404– Measurements and Instrumentation-(C214)

C214.1	Describe the basic functional block elements in Different measuring Instruments and the errors in the measurement system.
C214.2	Select the suitable instrument for measuring different electrical and magnetic parameters.
C214.3	Design a suitable Bridge circuit to determine the values of various resistor, inductor and capacitor.
C214.4	Explain the construction and working principle of various types of storage and display devices and compare them.
C214.5	Compare the various types of transducers and explain the function of different blocks involved in data acquisition systems.

CS 6461- Object Oriented programming Laboratory-[C215]

C215.1	Design C++ programs using functions, classes with objects, member functions and constructors.
C215.2	Develop operator and function overloading and run time polymorphism using C++.
C215.3	Develop file handling techniques in C++ for sequential and random access also use Java code for strings.
C215.4	Construct packages and interfaces in Java.
C215.5	Create threads in Java and handle predefined and user defined exceptions.

EE6411-Electrical Machines Laboratory-I- [C216]

C216.1	Analyze the characteristics of DC shunt generator DC compound generator and calculate critical resistance and critical speed
C216.2	Examine load characteristics of DC shunt, series and compound motor and identify its maximum efficiency operating point
C216.3	Predict the efficiency of DC shunt machine in different methods
C216.4	Explain the load characteristics of single phase and three phase transformer , separate the different losses and to find the efficiency
C216.5	Predetermine the equivalent circuit parameters of single phase transformer in two different methods and compare the results

EE 6501 – Power System Analysis-[C301]

C301.1	Explain the operation of various power system components, Draw the per unit diagram and form the Y-bus matrix for the power system.
C301.2	Develop the power flow equation for power system problems and Determine the line flows using G-S, N-R and F-D method
C301.3	Illustrate the types of faults and their effects, Calculate the fault currents for symmetrical fault condition.
C301.4	Draw the sequence network for L-G, L-L and L-L-G fault of the power system and Determine the fault current incase of L-G, L-L and D-L-G fault
C301.5	Explain the concept of power system stability, Analyze the stability of single machine infinite bus system.

EE 6502 – Microprocessors and Microcontrollers – (C302)

C302.1	Describe the basic Architecture of 8085 Microprocessor and working of all blocks of the processor, IO and memory interfacing with necessary timing diagrams.
C302.2	Classify the instructions with the help of Addressing modes of 8085 with necessary programs.
C302.3	Explain the basic Architecture of 8051 Microcontroller with working of various blocks of the controller like Interrupts, Timer, IO ports etc. with necessary timing diagram and compare the programming concepts with 8085.
C302.4	Analyze the architecture of various Interfacing Devices like 8255 PPI, 8259 PIC, 8251 USART, 8279, 8253, ADC and DAC and Programming of all the Interfacing IC's.
C302.5	Apply the knowledge of programming concepts of 8051 Microcontroller for various applications like keyboard display interface, servo motor etc

ME 6701 – Power Plant Engineering – (C303)

C303.1	Draw the layout of modern coal power plant and list the various components used in thermal power plant.
C303.2	Identify the components of diesel and gas turbine power plants and construct the integrated gasifier based combined cycle systems.
C303.3	Describe the layout of subsystems of various nuclear power plants and express safety measures for nuclear power plants.
C303.4	Distinguish different hydroelectric power plants and construct various renewable energy power plants such as wind, tidal, PV, solar, thermal, geo thermal, biogas and fuel cell.
C303.5	Calculate the per unit cost of electrical energy based on Power tariff, load factor, demand factor, diversity factor and plant safety factor.

EE6503 - Power Electronics - [C304]

C304.1	Explain the significance of switching devices and its application to power converters and demonstrate the triggering circuit and snubber circuits.
C304.2	Compare the operation of two, three Pulse Converters and draw output waveforms with and without source and load inductance.
C304.3	Classify the operation of Choppers and outline the application of SMPS.
C304.4	Analyze the operation of single phase and three phase Inverters with and without PWM techniques.
C304.5	Illustrate the operation of AC voltage controller and cycloconverter and its application.

EE6504-Electrical Machines-II-[C305]

C305.1	Draw the constructional details and explain the performance of salient and non – salient type synchronous generators.
C305.2	Draw and explain the Principle of operation and performance of synchronous motor.
C305.3	Draw and describe the construction, principle of operation and performance of induction machines.
C305.4	Describe the starting and speed control of three-phase induction motors.
C305.5	Explain the construction, principle of operation and performance of single phase induction motors and special machines.

IC6501- Control systems – (C306)

C306.1	Discuss the use of transfer function models for analysis of physical systems and the control system components.
C306.2	Analyze the time response of systems and steady state error.
C306.3	Use the basic knowledge in obtaining the open loop and closed-loop frequency responses of systems.
C306.4	Explain the stability analysis and types of compensators.
C306.5	Describe the state variable representation of physical systems and the effect of state feedback.

EE6511- Control and Instrumentation Laboratory – (C307)

C307.1	Determine the characteristics of P, PI and PID controllers experimentally and analyze the stability of the control system by (i) Bode plot (ii) Root Locus Plot and (iii) Nyquist plot using MATLAB.
C307.2	Compute the transfer function of a Field controlled DC motor experimentally and Design the Lag, Lead and Lag-Lead Compensators for the given specifications and hook up it using RC networks.
C307.3	Draw the transient response of Position Control system experimentally, Determine the Characteristics of Synchro-Transmitter- Receiver and Use the MATLAB for the Simulation of Control Systems.
C307.4	Calculate the unknown Capacitance, Inductance and Resistance using AC and DC Bridges experimentally and Analyze the Dynamics of Sensors/Transducers (a) Temperature (b) Pressure (c) Displacement (d) Optical (e) Strain and (f) Flow.
C307.5	Measure the Power and Energy experimentally; Analyze the Signal Conditioning units (a) Instrumentation Amplifier (b) ADC and DACs and Use the MATLAB for Process Simulation.

GE6563- Communication Skills – Laboratory based – (C308)

C308.1	Apply appropriate communication skills across settings, purposes and audiences.
C308.2	Demonstrate knowledge of communication theory and applications.
C308.3	Practice critical thinking to develop innovative and well-founded perspectives related to the students emphasis. Build and maintain healthy and effective relationships.
C308.4	Use technology to communicate effectively in various settings and contexts.
C308.5	Demonstrate appropriate and professional ethical behavior.

EE6512-Electrical Machines Laboratory-II - [C309]

C309.1	Determine the voltage regulation of three phase alternator in different methods and compare the results
C309.2	Determine the voltage regulation of salient pole synchronous machine and find negative & zero sequence components
C309.3	Explain the V and inverted V characteristics of three phase synchronous machine at different load condition
C309.4	Determine and pre determine performance characteristics of three phase induction motor
C309.5	Determine and pre determine performance characteristics of single phase induction motor

EC6651-Communication Engineering - (C310)

C310.1	Explain the operation of Amplitude Modulation , draw the frequency spectrum and vector representation of AM
C310.2	Compare the different methods of QPSK, BFSK and GMSK
C310.3	Analyze how information is transmitted to receiver using the Huffman coding
C310.4	Discuss about the various types of multiple access techniques
C310.5	Distinguish between INTELSAT and INSAT

EE6601– Solid State Drives – (C311)

C311.1	Classify the various types of drives and load torque characteristics and Apply the multi quadrant dynamics in hoist load system.
C311.2	Analyze the operation of steady state analysis of single phase and three phase fully controlled converter and Chopper fed separately excited dc motor drives and discuss the various control strategies of converter.
C311.3	Explain the operation and characteristics of various methods of solid state speed control of induction motor.
C311.4	Describe the operation of various modes of V/f control of synchronous motor drives and different types of permanent magnet synchronous motor drives.
C311.5	Design a current and speed controller and develop the transfer function for DC motor, load and converter, closed loop control with current and speed feedback.

EE 6602 – Embedded Systems – (C312)

C312.1	Analyze the basic build process of embedded systems, structural units in embedded processor and selection of processor and memory devices depending upon the applications.
C312.2	Classify the types of I/O device ports and buses and different interfaces for data transfer.
C312.3	Model the Embedded Product Development Life Cycle (EDLC) by using different techniques like state machine model, sequential program model and concurrent model
C312.4	Analyze the basic concept of Real Time Operating Systems and plan to scheduling of different task and compare the features of different types of Real Time Operating Systems
C312.5	Apply the knowledge of programming concepts of Embedded Systems for various applications like Washing Machine automotive and Smart Card System applications

EE 6603 – Power System Operation and Control - (C313)

C313.1	Analyze the various load characteristics with load curve and load duration curve.
C313.2	Describe modeling of power-frequency dynamics and design power-frequency controller
C313.3	Explain the modeling of reactive power-voltage interaction and the control actions
C313.4	Solve economic dispatch problems and unit commitment problems in power systems
C313.5	Explain the need of computer controls to energy management using SCADA

EE 6604 - Design of Electrical Machines [C314]

C314.1	Compare Electrical Engineering materials; determine heat dissipation due to Conduction, convection and radiation.
C314.2	Calculate mmf for slots and teeths, apparent flux density, main dimensions and winding details of DC machines.
C314.3	Design core, yoke, winding and cooling system of transformers.
C314.4	Develop output equation of AC machines, design stator and rotor of induction machines.
C314.5	Design stator and rotor of synchronous machines analyze their thermal behavior, design field systems for turbo alternators.

EE6002-Power System Transients - (C315E3)

C315E3.1	Explain the concept of transients and Compute the solution of transient current equation for RL and RLC system.
C315E3.2	Illustrate the importance of switching transients, Explain the concept of resistance switching, load switching and capacitance switching.
C315E3.3	Explain the concept of lightning mechanism, Describe the interaction between lightning and power system
C315E3.4	Apply the concept of reflection and refraction, Draw the Bewley Lattice diagram for different systems.
C315E3.5	Analyze the concept of short line (or) Kilometric fault and justify the EMTP for transient computation.

EE6611-Power Electronics and Drives Laboratory – (C316)

C316.1	Draw the VI characteristics of SCR and generate the Gate Pulse using R, RC and UJT.
C316.2	Plot the characteristics of MOSFET and IGBT
C316.3	Simulate a single phase AC to DC half and fully controlled converter.
C316.4	Draw the output response of step up and step down MOSFET based chopper and simulate a single phase IGBT based PWM inverter.
C316.5	Plot the output response of AC voltage controller and simulate the Power Electronic Circuits.

EE 6612 – Microprocessors and Microcontrollers Laboratory – (C317)

C317.1	Predict the smallest/ largest number from a given array and to Perform various mathematical operations using 8085 processor
C317.2	Convert the given analog input to digital value and to control the traffic signals using 8085 programming
C317.3	Develop coding to display the given word using keyboard and display controller and for serial communication
C317.4	Manipulate the basic operations involving jumps and loops using 8051 Microcontroller and to interface stepper motor and other devices
C317.5	Design circuits for implementing real time applications

EE 6613 – Presentation Skills and Technical Seminar – (C318)

C318.1	Present seminar in the field of electrical and electronics engineering subjects studied.
C318.2	Solve objective type questions in the field of electrical and electronics engineering.
C318.3	Communicate effectively, the subjects learned in the form of seminar presentation.
C318.4	Communicate effectively, the modern trends in the field of electrical and electronics engineering.
C318.5	Answer effectively during technical interviews.

EE6701- High Voltage Engineering- (C401)

C401.1	Identify the causes of over voltage and its effects in power system.
C401.2	Classify the breakdown Mechanisms in Solid, Liquid, gases and Composite dielectrics
C401.3	Design different type of Generating circuit for high voltage D.C and high voltage A.C
C401.4	Measure A.C and D.C high voltage and current using appropriate method
C401.5	Test the transformer ,insulator , circuit breakers, surge diverters and cables also discuss the insulation coordination

EE6702- Protection and Switchgear - [C402]

C402.1	Summarize the causes and effects of faults in power system and explain the necessity of protection in power system.
C402.2	Describe the operation of electromagnetic relays and draw their characteristic curves.
C402.3	List out the various faults that can occur on alternator, transformer, busbar and transmission line and select the suitable protection schemes.
C402.4	Synthesize the static relays using comparators and explain numerical relays.
C402.5	Derive the expression for RRRV, critical resistance value and compare the various types of circuit breakers.

EE6703-Special Electrical Machines - [C403]

C403.1	Explain the necessity to improve the saliency of synchronous reluctance motor and its characteristics
C403.2	Compare the various methods of excitation of different types of stepper motor and its driver circuits
C403.3	Describe the operation of switched reluctance motor with and without sensors
C403.4	Explain the electronic commutation of permanent magnet brushless D.C. motors and develop the torque equation.
C403.5	Develop the expression for emf and torque of permanent magnet synchronous motors and discuss power controller for permanent magnet synchronous motors.

MG6851-Principles of Management - [C404]

C404.1	Describe the basic of management and its types, skills, management roles, types of business organizations and current trends in business.
C404.2	Explain the nature and purpose of planning , types, objective of planning and decision process
C404.3	Compare the different organization structures, Authorities and responsibilities, Human resource management and training and development.
C404.4	Estimate the individual and group behavior, motivation, job satisfaction, types and theories of leadership, communication and IT.
C404.5	Apply the knowledge using the various System and process of controlling, budgetary and non-budgetary control techniques, use of computers and IT in Management control, reporting.

EI 6704 – Biomedical Instrumentation – (C405E2)

C405E2.1	Identify the functions of human nervous system and describe the basic components of biomedical system.
C405E2.2	Illustrate the measurement of non-electrical parameters in human body system.
C405E2.3	Apply different electrodes and amplifiers in physiological measurements (EEG, ECG, EMG etc.)
C405E2.4	Explain the basic principles of imaging techniques and patient monitoring system.
C405E2.5	Describe the functions of life assisting and therapeutic equipments

EE6008 – Micro Controller Based System Design – [C406E4]

C406E4.1	Describe the basic architecture of PIC16cxx and apply the instruction set for simple operations.
C406E4.2	Explain about the PIC micro controllers interrupts and write the interrupt programs
C406E4.3	Apply the program to interface I/O devices with controller like LCD, Keyboard, and Sensors etc.,
C406E4.4	Develop simple applications using ARM assembly language programs
C406E4.5	Analyze ARM Organization and ARM Coprocessor interface

EE 6711 – Power System Simulation Laboratory – [C407]

C407.1	Determine the bus impedance and admittance matrices using C and MATLAB
C407.2	Apply numerical methods for solving load flow problems and verify using C and MATLAB
C407.3	Analyze various faults occurring in power system and simulate the faults using PSCAD.
C407.4	Analyze small signal stability of Single Machine Infinite Bus (SMIB) system and draw the swing curve using AUPOWER Lab and MATLAB.
C407.5	Generate the coding for economic dispatch problems and load frequency dynamics problems using MATLAB.

EE6712 -Comprehension- [C408]

C408.1	Describe the basic concepts of electrical and electronics subjects.
C408.2	Solve objective type questions in the field of electrical and electronics engineering
C408.3	Review, prepare and present technological developments
C408.4	Analyze the modern trends in the field of electrical and electronics engineering.
C408.5	Answer effectively during technical interviews.

EE6801-Electric Energy Generation, Utilization and Conservation – [C409]

C409.1	Evaluate tractive effort for the propulsion of train, name the traction motors, list the traction motor control, track equipment and collection gear.
C409.2	Categorize different light sources and design various illumination systems for the indoor lighting schemes, factory lighting, halls, outdoor lighting schemes, flood lighting, street lighting.
C409.3	Compare the different methods of electric heating and types of electric welding.
C409.4	Estimate average solar radiation and illustrate the physical principles of the conversion of solar radiation into heat.
C409.5	Analyze aerodynamic forces acting on the blade and draw basic components of a WECS.

EE 6009 – Power Electronics for Renewable Energy Systems – (C410E1)

C410E1.1	Discuss and analyze the various types of renewable energy sources
C410E1.2	Analyze the performance of IG, PMSG, SCIG and DFIG
C410E1.3	Design different power converters namely AC to DC, DC to DC and AC to AC converters for renewable energy systems.
C410E1.4	Analyze various operating modes of wind electrical generators and solar energy systems.
C410E1.5	Develop maximum power point tracking algorithms.

GE6757-Total Quality Management - [C411E2]

C411E2.1	Describe the basic of Basic concepts of TQM and its need , Contributions of Deming, Juran and Crosby , Customer focus, Costs of quality.
C411E2.2	Explain the Leadership ,Quality Councils , Employee involvement, Teamwork, Quality circles , Performance appraisal , PDCA cycle, 5S, Kaizen, Supplier partnership.
C411E2.3	Compare the different tools of quality, New management tools , Six sigma, Bench marking.
C411E2.4	Estimate the TQM using Control Charts, Taguchi quality loss function , TPM - Concepts, improvement needs and Performance measures.
C411E2.5	Apply the knowledge using the various System using ISO 9000 - ISO 9001-2008 , Elements, Documentation, Quality Auditing - QS 9000 - ISO 14000 – Concepts etc.

EE6811 – Project work [C412]

C412.1	Apply the fundamentals of mathematics, science and engineering knowledge to identify , formulate , design and investigate complex engineering problems of electrical and electronics engineering and allied applications .
C412.2	Apply appropriate techniques and modern engineering hardware and software tools in electrical and electronics engineering and allied applications.
C412.3	Apply reasoning informed by the contextual knowledge to assess societal , health, safety, legal and cultural issues with societal and environmental context , applying ethical principles in the field of electrical and electronics engineering and allied applications.
C412.4	Function effectively as an individual and as a member or leader in diverse teams in multidisciplinary settings and make effective presentation, and communicate effectively.
C412.5	Demonstrate the understanding of the engineering and management principles in multidisciplinary environments to engage in lifelong learning in the broadest context of technological change.

K.L.N. COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Mapping of Course with POs and PSOs

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101	-	1	-	-	-	-	1	-	2	2	-	1	1	1	1
C102	2	2	-	-	2	-	-	-	-	-	-	1	2	1	-
C103	2	2	-	-	-	-	-	-	-	-	-	1	1	-	-
C104	2	2	-	-	-	-	-	-	-	-	-	1	1	-	-
C105	2	3	-	-	1	-	-	-	-	-	-	1	1	1	-
C106	1	2	-	-	-	1	-	-	-	1	-	-	1	-	1
C107	1	3	-	-	-	-	-	-	1	-	-	1	1	1	-
C108	1	1	1	-	1	-	-	-	1	-	-	1	1	1	-
C109	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C110	-	1	-	-	-	-	1	-	2	2	-	1	1	1	1
C111	2	-	-	2	-	-	-	-	2	-	-	1	1	1	-
C112	2	2	-	-	-	-	-	-	-	-	-	1	1	-	-
C113	2	2	-	-	-	-	-	-	-	-	-	1	1	-	-
C114	2	1	1	-	-	1	2	-	-	-	-	-	1	-	1
C115	3	2	1	1	1	-	-	-	-	-	-	-	2	-	-
C116	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C117	1	-	2	-	2	-	-	-	1	-	-	-	1	1	-
C118	3	1	2	-	1	1	-	-	2	-	-	-	2	1	-
C201	2	2	-	1	-	-	-	-	-	-	-	-	1	-	-
C202	2	2	2	1	-	-	-	-	-	-	-	-	2	-	-
C203	3	3	1	1	-	-	-	-	-	-	-	-	2	-	-
C204	-	-	-	-	-	3	1	1	1	-	-	3	-	1	1
C205	2	2	2	2	-	1	-	-	-	-	-	-	2	-	-
C206	2	1	1	-	-	1	-	-	-	-	-	1	1	-	-
C207	2	1	2	3	1	-	-	-	2	-	-	-	2	1	-
C208	2	-	1	-	-	1	-	-	2	-	-	-	1	1	-
C209	3	3	-	2	3	2	-	-	-	-	-	-	2	1	1
C210	3	2	-	1	1	-	-	-	-	-	-	-	1	-	-
C211	2	1	2	2	2	-	-	-	-	-	-	-	2	1	-
C212	3	3	-	1	-	2	2	-	-	-	-	-	2	-	1
C213	3	2	2	-	1	-	-	-	-	-	-	1	2	1	-
C214	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
C215	2	2	2	2	1	-	-	-	1	-	-	-	2	1	-
C216	2	-	-	3	1	-	-	-	1	-	-	-	1	1	-
C301	2	3	-	2	1	1	1	-	-	-	-	-	2	-	-
C302	2	2	2	-	1	-	-	-	-	-	-	-	2	-	-
C303	3	-	2	-	-	2	2	-	-	-	-	-	1	-	1
C304	3	2	1	-	2	-	-	-	-	-	-	-	2	1	-
C305	2	3	1	3	-	-	-	-	-	-	-	-	2	-	-
C306	3	2	3	1	-	-	-	-	2	-	-	-	2	1	-
C307	3	1	2	3	2	-	-	-	2	-	-	-	2	1	-
C308	-	-	1	1	1	1	3	1	1	2	1	1	-	-	1
C309	2	2	1	3	-	-	-	-	1	-	-	-	2	-	-
C310	3	2	1	1	2	1	1	-	-	-	1	-	2	1	1
C311	3	1	-	1	-	-	-	-	-	-	-	-	2	-	-
C312	2	1	1	1	1	-	-	-	-	-	-	-	1	-	-
C313	3	2	1	2	1	-	-	-	-	-	-	-	2	-	-
C314	3	3	3	-	2	-	-	-	-	-	-	-	2	1	-
C315E1	3	2	-	-	1	-	1	-	-	-	-	-	1	-	-
C316	2	1	1	1	1	-	-	-	2	-	-	-	1	1	-

C317	2	2	2	3	1	-	-	-	1	-	-	-	2	1	-
C318	1	2	2	3	-	-	-	-	3	1	-	-	2	1	-
C401	1	1	-	2	-	2	-	-	-	-	-	-	1	-	1
C402	3	2	1	-	-	1	1	-	-	-	-	-	2	-	1
C403	3	2	-	-	1	-	-	-	-	-	-	-	1	-	-
C404	-	-	-	3	-	2	2	-	1	-	3	3	1	1	1
C405E2	3	-	-	-	1	-	1	-	-	-	-	-	1	-	-
C406E3	2	1	1	1	1	-	-	-	-	-	-	2	1	2	-
C407	3	2	1	3	1	-	-	-	-	-	-	-	2	-	-
C408	1	-	2	3	-	1	3	2	1	-	1	2	2	1	1
C409	3	2	2	-	-	1	1	-	-	-	1	-	2	-	1
C410E4	3	3	-	-	-	2	2	2	-	-	-	-	2	2	1
C411E5	-	-	-	1	-	1	1	2	1	1	2	3	1	1	1
C412	2	2	1	2	2	2	2	1	1	1	2	2	2	2	2

Table:1 Course attainment (2015-2019 Batch)

COURSE	Attainment Level	COURSE	Attainment Level	COURSE	Attainment Level	COURSE	Attainment Level
C101	1.56	C201	1.31	C301	1.32	C401	1.93
C102	1.02	C202	1.28	C302	1.04	C402	1.37
C103	1.24	C203	1.22	C303	2	C403	2.95
C104	2.17	C204	1.13	C304	1.14	C404	1.64
C105	1.42	C205	1.16	C305	1.02	C405E2	2.86
C106	3	C206	1.76	C306	1.22	C406E3	2.85
C107	2.8	C207	3	C307	3	C407	3
C108	2.65	C208	3	C308	3	C408	2.49
C109	3	C209	1.71	C309	2.95	C409	2.91
C110	3	C210	1.52	C310	1.27	C410E4	2.69
C111	1.24	C211	1.7	C311	2.28	C411E5	2.47
C112	1.11	C212	1.34	C312	1.43	C412	3
C113	0.91	C213	2.27	C313	1.86		
C114	2.04	C214	1.18	C314	1.58		
C115	1.85	C215	2.97	C315E1	1.28		
C116	2.2	C216	2.91	C316	3		
C117	2.65			C317	3		
C118	2.92			C318	2.81		

Table:2 Course attainment (2015-2019 Batch) – Subject Name wise

S.NO.	Code	Subject Name	CO	Att. Level
1	HS6151	Technical English - I	C101	1.56
2	MA6151	Mathematics - I	C102	1.02
3	PH6151	Engineering Physics - I	C103	1.24
4	CY6151	Engineering Chemistry - I	C104	2.17
5	GE6151	Computer Programming	C105	1.42
6	GE6152	Engineering Graphics	C106	3
7	GE6161	Computer Practices Laboratory	C107	2.8
8	GE6162	Engineering Practices Laboratory	C108	2.65
9	GE6163	Physics and Chemistry Laboratory - I	C109	3
10	HS6251	Technical English - II	C110	3
11	MA6251	Mathematics - II	C111	1.24
12	PH6251	Engineering Physics - II	C112	1.11
13	CY6251	Engineering Chemistry - II	C113	0.91
14	GE6251	Basic Civil and Mechanical Engineering	C114	2.04
15	EE6201	Circuit Theory	C115	1.85
16	GE6262	Physics and Chemistry Laboratory - II	C116	2.2
17	GE6263	Computer Programming Laboratory	C117	2.65
18	EE6211	Electric Circuits Laboratory	C118	2.92
19	MA6351	Transforms and Partial Differential Equations	C201	1.31
20	EE6301	Digital Logic Circuits	C202	1.28
21	EE6302	Electromagnetic Theory	C203	1.22
22	GE6351	Environmental Science and Engineering	C204	1.13
23	EC6202	Electronic Devices and Circuits	C205	1.16
24	EE6303	Linear Integrated Circuits and Applications	C206	1.76
25	EC6361	Electronics Laboratory	C207	3
26	EE6311	Linear and Digital Integrated Circuits Laboratory	C208	3
27	MA6459	Numerical Methods	C209	1.71
28	EE6401	Electrical Machines - I	C210	1.52
29	CS6456	Object Oriented Programming	C211	1.7
30	EE6402	Transmission and Distribution	C212	1.34
31	EE6403	Discrete Time Systems and Signal Processing	C213	2.27
32	EE6404	Measurements and Instrumentation	C214	1.18
33	CS6461	Object Oriented Programming Laboratory	C215	2.97
34	EE6411	Electrical Machines Laboratory - I	C216	2.91
35	EE6501	Power System Analysis	C301	1.32
36	EE6502	Microprocessors and Microcontrollers	C302	1.04
37	ME6701	Power Plant Engineering	C303	2
38	EE6503	Power Electronics	C304	1.14
39	EE6504	Electrical Machines - II	C305	1.02
40	IC6501	Control Systems	C306	1.22
41	EE6511	Control and Instrumentation Laboratory	C307	3
42	GE6674	Communication and Soft Skills- Laboratory Based	C308	3

43	EE6512	Electrical Machines Laboratory - II	C309	2.95
44	EC6651	Communication Engineering	C310	1.27
45	EE6601	Solid State Drives	C311	2.28
46	EE6602	Embedded Systems	C312	1.43
47	EE6603	Power System Operation and Control	C313	1.86
48	EE6604	Design of Electrical Machines	C314	1.58
49	EE6002	Power System Transients	C315E1	1.28
50	EE6611	Power Electronics and Drives Laboratory	C316	3
51	EE6612	Microprocessors and Microcontrollers Laboratory	C317	3
52	EE6613	Presentation Skills and Technical Seminar	C318	2.81
53	EE6701	High Voltage Engineering	C401	1.93
54	EE6702	Protection and Switchgear	C402	1.37
55	EE6703	Special Electrical Machines	C403	2.95
56	MG6851	Principles of Management	C404	1.64
57	EE6005	Power Quality	C405E2	2.86
58	EE6008	Microcontroller Based System Design	C406E3	2.85
59	EE6711	Power System Simulation Laboratory	C407	3
60	EE6712	Comprehension	C408	2.49
61	EE6801	Electric Energy Generation, Utilization and Conservation	C409	2.91
62	EE6009	Power Electronics for Renewable Energy Systems	C410E4	2.69
63	GE6757	Total Quality Management	C411E5	2.47
64	EE6811	Project Work	C412	3

Table: 3 Course Attainment Comparison

COURSE	Subject	2015-2019	2014-2018	2013-2017	2012-2016	2011-2015	2010-2014	2009-2013
C101	TE-I	1.56	3	1.59	0.96	1.64	1.48	1.12
C102	M-I	1.02	0.9	2.91	1.56	1.07	1.13	0.56
C103	EPhy-I	1.24	1.17	1.56	0.63	1.06	2.2	0.72
C104	EChe-I	2.17	1.17	1.78	0.36	1.19	1.54	1.44
C105	CP	1.42	1.04	1.82	1.38	0.9	2.08	0.32
C106	EG	3	0.99	2.5	1.38	1.9	2.6	2.44
C107	CP Lab	2.8	2.56	3	1.8	1.8	3	3
C108	EP Lab	2.65	1.96	2.96	2.4	2.2	3	2.2
C109	Phy Che Lab - I	3	1.48	2.04				
C110	TE-II	3	1.56	3	0.53	1.64	2.81	0.96
C111	M-II	1.24	1.23	2.04	1.82	0.74	0.51	0.48
C112	EPhy-II	1.11	1.22	2.78	0.42	1.08	1.88	1.08
C113	EChe-II	0.91	1.27	1.44	0.28	0.77	1.65	0.4
C114	BCME	2.04	2.03	3	0.85	0.72	2.14	2.08
C115	CT	1.85	2.48	1.78	0.1	0.38	2.02	1
C116	Phy Che Lab -II	2.2	1.56	2.52	0.8	1.2	2	1
C117	CP Lab	2.65	2.88	3	1	1.4	3	1.2
C118	EC Lab	2.92	3	3	3	2.4	1.2	2.4
C201	TPDE	1.31	0.89	1.07	2.07	0.54	0.69	0.8
C202	DLC	1.28	1.16	0.89	0.93	0.19	0.72	0.66
C203	EMT	1.22	1.11	0.92	1.06	0.79	2.09	1.03
C204	EVS	1.13	0.93	1.5	1.05	0.59	1.81	0.61
C205	EDC	1.16	1.41	1.23	1.47	0.13	1.7	0.3
C206	LIC	1.76	0.92	1.28	1.39	0.19	0.62	1.02
C207	Electronics Lab	3	2.94	3	3	3	2.6	0.6
C208	LIC Lab	3	3	3	3	2.4	2.6	1.6
C209	NM	1.71	1.54	1.77	1.4	2.28	0.46	1.32
C210	EM-I	1.52	1.1	1.33	1.78	0.43	1.92	1.45
C211	OOP	1.7	0.76	1.16	0.95	2.58	0.69	1.4
C212	TD	1.34	1.16	1.38	1.38	1.41	1.74	1.32
C213	DTSSP	2.27	1.14	1.25	0.93	1.26	0.16	2.08
C214	MI	1.18	1.38	1.73	1.75	0.76	1.49	1.45
C215	OOP Lab	2.97	3	1.28	2.52	2.4	1.4	2.2
C216	EM Lab-I	2.91	3	2.88	2	2.6	3	3
C301	PSA	1.32	1.56	1.69	1.32	1.42	0.43	1.26
C302	MPMC	1.04	0.95	0.94	0.96	1.42	0.53	0.37
C303	PPE	2	1.47	2.43	2.24	1.03	2.81	2.47
C304	PE	1.14	0.99	1.5	1.13	1.41	1.62	1.54
C305	EM -II	1.02	1.39	0.95	0.6	1.52	1.3	1.18

C306	CS	1.22	1.03	1.21	1.8672	1	0.38	1.03
C307	CS Lab	3	3	2.03	3	2.2	2	3
C308	Comm/ Soft skills Lab	3	3	3	1.56	0.8	1.2	0
C309	EM Lab - II	2.95	2.96	2.96	3	3	1.8	2.6
C310	CE	1.27	0.87	1.69	1.35	1.01	0.16	0.96
C311	SSD	2.28	0.99	2.83	2.21	2.1	0.97	2.49
C312	Embedded	1.43	1.08	2.81			2.36	
C313	PSOC	1.86	1.47	1.44	2.05	2.14	2.42	2.06
C314	DEM	1.58	1.06	2.12	1.88	1.75	0.59	0.89
C315E1	PST	1.28	1.51	1.52	2.96	2.38	3	1.29
C316	PED Lab	3	3	2.99	3	3	1.8	3
C317	MPMC Lab	3	3	3	2.94	3	3	1.8
C318	PSTS Lab	2.81	2.87	3	3	3	0.59	
C401	HVE	1.93	1.09	2.16	1.04	1.63	1.63	2.2
C402	PSG	1.37	1.13	1.8	1.73	2.06	2.04	2.15
C403	SEM	2.95	1.26	1.93	2.39	1.53	1.98	2.6
C404	POM	1.64	1.77	3	2.04	2.67	2.04	
C405E2	PQ	2.86	1.57	1.86	2.86	2.59	3	2.58
C406E3	MBSD	2.85	1.86	1.03				
C407	PSS Lab	3	3	2.8	2.52	2.52	3	3
C408	Compre	2.49	2.74	2.98	3	3	3	
C409	EEGUC	2.91	1.14	2.38	1.34	2.42	2.53	1.03
C410E4	PERES	2.69	1.05	2.68			1.84	1.84
C411E5	TQM	2.47	1.18	1.27				3
C412	Project	3	3	3	3	3	3	2.2

Table 4: PO Attainment 2015-2019 Batch (Mapped without Weightage)

Course	Attainment Level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.56		1.56					1.56		1.56	1.56		1.56
C102	1.02	1.02	1.02			1.02							1.02
C103	1.24	1.24	1.24										1.24
C104	2.17	2.17	2.17										2.17
C105	1.42	1.42	1.42			1.42							1.42
C106	3	3	3				3				3		
C107	2.8	2.8	2.8							2.8			2.8
C108	2.65	2.65	2.65	2.65		2.65				2.65			2.65
C109	3												
C110	3		3					3		3	3		3
C111	1.24	1.24			1.24					1.24			1.24
C112	1.11	1.11	1.11										1.11
C113	0.91	0.91	0.91										0.91
C114	2.04	2.04	2.04	2.04			2.04	2.04					
C115	1.85	1.85	1.85	1.85	1.85	1.85							
C116	2.2	2.2											
C117	2.65	2.65		2.65		2.65				2.65			
C118	2.92	2.92	2.92	2.92		2.92	2.92			2.92			
C201	1.31	1.31	1.31		1.31								
C202	1.28	1.28	1.28	1.28	1.28								
C203	1.22	1.22	1.22	1.22	1.22								
C204	1.13						1.13	1.13	1.13	1.13			1.13
C205	1.16	1.16	1.16	1.16	1.16		1.16						
C206	1.76	1.76	1.76	1.76			1.76						1.76
C207	3	3	3	3	3	3				3			
C208	3	3		3			3			3			
C209	1.71	1.71	1.71		1.71	1.71	1.71						
C210	1.52	1.52	1.52		1.52	1.52							
C211	1.7	1.7	1.7	1.7	1.7	1.7							
C212	1.34	1.34	1.34		1.34		1.34	1.34					
C213	2.27	2.27	2.27	2.27		2.27							2.27
C214	1.18	1.18	1.18	1.18									
C215	2.97	2.97	2.97	2.97	2.97	2.97				2.97			
C216	2.91	2.91			2.91	2.91				2.91			
C301	1.32	1.32	1.32		1.32	1.32	1.32	1.32					
C302	1.04	1.04	1.04	1.04		1.04							
C303	2	2		2			2	2					
C304	1.14	1.14	1.14	1.14		1.14							
C305	1.02	1.02	1.02	1.02	1.02								
C306	1.22	1.22	1.22	1.22	1.22					1.22			
C307	3	3	3	3	3	3				3			
C308	3			3	3	3	3	3	3	3	3	3	3
C309	2.95	2.95	2.95	2.95	2.95					2.95			
C310	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27				1.27	

C311	2.28	2.28	2.28		2.28								
C312	1.43	1.43	1.43	1.43	1.43	1.43							
C313	1.86	1.86	1.86	1.86	1.86	1.86							
C314	1.58	1.58	1.58	1.58		1.58							
C315E1	1.28	1.28	1.28			1.28		1.28					
C316	3	3	3	3	3	3				3			
C317	3	3	3	3	3	3				3			
C318	2.81	2.81	2.81	2.81	2.81					2.81	2.81		
C401	1.93	1.93	1.93		1.93		1.93						
C402	1.37	1.37	1.37	1.37			1.37	1.37					
C403	2.95	2.95	2.95			2.95							
C404	1.64				1.64		1.64	1.64		1.64		1.64	1.64
C405E2	2.86	2.86				2.86		2.86					
C406E3	2.85	2.85	2.85	2.85	2.85	2.85							2.85
C407	3	3	3	3	3	3							
C408	2.49	2.49		2.49	2.49		2.49	2.49	2.49	2.49		2.49	2.49
C409	2.91	2.91	2.91	2.91			2.91	2.91				2.91	
C410E4	2.69	2.69	2.69				2.69	2.69	2.69				
C411E5	2.47				2.47		2.47	2.47	2.47	2.47	2.47	2.47	2.47
C412	3	3	3	3	3	3	3	3	3	3	3	3	3

PO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Obtained	115.8	101.01	77.59	68.75	66.17	44.15	37.37	14.78	58.41	18.84	16.78	39.73
Actual	57	51	36	33	30	21	18	6	23	7	7	20
Direct Attainment	2.03	1.98	2.16	2.08	2.21	2.1	2.08	2.46	2.54	2.69	2.4	1.99
Indirect Attainment	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
Overall Attainment	2.2	2.16	2.3	2.24	2.34	2.26	2.24	2.54	2.61	2.73	2.5	2.17
Target	3	3	3	3	3	3	3	3	3	3	3	3

***Overall Attainment = (0.8*Direct Attainment + 0.2*Indirect Attainment)**

Table 5: PSO Attainment 2015-2019 Batch (Mapped without Weightage)

Course	CO	PSO1	PSO2	PSO3
C101	1.56	1.56	1.56	1.56
C102	1.02	1.02	1.02	
C103	1.24	1.24		
C104	2.17	2.17		
C105	1.42	1.42	1.42	
C106	3	3		3
C107	2.8	2.8	2.8	
C108	2.65	2.65	2.65	
C109	3	3		
C110	3	3	3	3
C111	1.24	1.24	1.24	
C112	1.11	1.11		
C113	0.91	0.91		
C114	2.04	2.04		2.04
C115	1.85	1.85		
C116	2.2	2.2		
C117	2.65	2.65	2.65	
C118	2.92	2.92	2.92	
C201	1.31	1.31		
C202	1.28	1.28		
C203	1.22	1.22		
C204	1.13		1.13	1.13
C205	1.16	1.16		
C206	1.76	1.76		
C207	3	3	3	
C208	3	3	3	
C209	1.71	1.71	1.71	1.71
C210	1.52	1.52		
C211	1.7	1.7	1.7	
C212	1.34	1.34		1.34
C213	2.27	2.27	2.27	
C214	1.18	1.18		
C215	2.97	2.97	2.97	
C216	2.91	2.91	2.91	
C301	1.32	1.32		
C302	1.04	1.04		
C303	2	2		2
C304	1.14	1.14	1.14	
C305	1.02	1.02		
C306	1.22	1.22	1.22	
C307	3	3	3	
C308	3			3
C309	2.95	2.95		
C310	1.27	1.27	1.27	1.27
C311	2.28	2.28		

C312	1.43	1.43		
C313	1.86	1.86		
C314	1.58	1.58	1.58	
C315E1	1.28	1.28		
C316	3	3	3	
C317	3	3	3	
C318	2.81	2.81	2.81	
C401	1.93	1.93		1.93
C402	1.37	1.37		1.37
C403	2.95	2.95		
C404	1.64	1.64	1.64	1.64
C405E2	2.86	2.86		
C406E3	2.85	2.85	2.85	
C407	3	3		
C408	2.49	2.49	2.49	2.49
C409	2.91	2.91		2.91
C410E4	2.69	2.69	2.69	2.69
C411E5	2.47	2.47	2.47	2.47
C412	3	3	3	3

PSO ATTAINMENT	PSO1	PSO2	PSO3
Obtained	127.47	70.11	38.55
Actual	62	31	18
Direct Attainment	2.06	2.26	2.14
Indirect Attainment	2.88	2.88	2.88
Overall Attainment	2.22	2.38	2.29
Target	3	3	3

***Overall Attainment = (0.8*Direct Attainment + 0.2*Indirect Attainment)**

Table 6: PO Attainment 2015-2019 Batch (Mapped with Weightage)

Course	Attainment Level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.56	0	1.56	0	0	0	0	1.56	0	3.12	3.12	0	1.56
C102	1.02	2.04	2.04	0	0	2.04	0	0	0	0	0	0	1.02
C103	1.24	2.48	2.48	0	0	0	0	0	0	0	0	0	1.24
C104	2.17	4.34	4.34	0	0	0	0	0	0	0	0	0	2.17
C105	1.42	2.84	4.26	0	0	1.42	0	0	0	0	0	0	1.42
C106	3	3	6	0	0	0	3	0	0	0	3	0	0
C107	2.8	2.8	8.4	0	0	0	0	0	0	2.8	0	0	2.8
C108	2.65	2.65	2.65	2.65	0	2.65	0	0	0	2.65	0	0	2.65
C109	3	0	0	0	0	0	0	0	0	0	0	0	0
C110	3	0	3	0	0	0	0	3	0	6	6	0	3
C111	1.24	2.48	0	0	2.48	0	0	0	0	2.48	0	0	1.24
C112	1.11	2.22	2.22	0	0	0	0	0	0	0	0	0	1.11
C113	0.91	1.82	1.82	0	0	0	0	0	0	0	0	0	0.91
C114	2.04	4.08	2.04	2.04	0	0	2.04	4.08	0	0	0	0	0
C115	1.85	5.55	3.7	1.85	1.85	1.85	0	0	0	0	0	0	0
C116	2.2	6.6	0	0	0	0	0	0	0	0	0	0	0
C117	2.65	2.65	0	5.3	0	5.3	0	0	0	2.65	0	0	0
C118	2.92	8.76	2.92	5.84	0	2.92	2.92	0	0	5.84	0	0	0
C201	1.31	2.62	2.62	0	1.31	0	0	0	0	0	0	0	0
C202	1.28	2.56	2.56	2.56	1.28	0	0	0	0	0	0	0	0
C203	1.22	3.66	3.66	1.22	1.22	0	0	0	0	0	0	0	0
C204	1.13	0	0	0	0	0	3.39	1.13	1.13	1.13	0	0	3.39
C205	1.16	2.32	2.32	2.32	2.32	0	1.16	0	0	0	0	0	0
C206	1.76	3.52	1.76	1.76	0	0	1.76	0	0	0	0	0	1.76
C207	3	6	3	6	9	3	0	0	0	6	0	0	0
C208	3	6	0	3	0	0	3	0	0	6	0	0	0
C209	1.71	5.13	5.13	0	3.42	5.13	3.42	0	0	0	0	0	0
C210	1.52	4.56	3.04	0	1.52	1.52	0	0	0	0	0	0	0
C211	1.7	3.4	1.7	3.4	3.4	3.4	0	0	0	0	0	0	0
C212	1.34	4.02	4.02	0	1.34	0	2.68	2.68	0	0	0	0	0
C213	2.27	6.81	4.54	4.54	0	2.27	0	0	0	0	0	0	2.27
C214	1.18	2.36	1.18	1.18	0	0	0	0	0	0	0	0	0
C215	2.97	5.94	5.94	5.94	5.94	2.97	0	0	0	2.97	0	0	0
C216	2.91	5.82	0	0	8.73	2.91	0	0	0	2.91	0	0	0
C301	1.32	2.64	3.96	0	2.64	1.32	1.32	1.32	0	0	0	0	0
C302	1.04	2.08	2.08	2.08	0	1.04	0	0	0	0	0	0	0
C303	2	6	0	4	0	0	4	4	0	0	0	0	0
C304	1.14	3.42	2.28	1.14	0	2.28	0	0	0	0	0	0	0
C305	1.02	2.04	3.06	1.02	3.06	0	0	0	0	0	0	0	0
C306	1.22	3.66	2.44	3.66	1.22	0	0	0	0	2.44	0	0	0
C307	3	9	3	6	9	6	0	0	0	6	0	0	0
C308	3	0	0	3	3	3	3	9	3	3	6	3	3
C309	2.95	5.9	5.9	2.95	8.85	0	0	0	0	2.95	0	0	0
C310	1.27	3.81	2.54	1.27	1.27	2.54	1.27	1.27	0	0	0	1.27	0

C311	2.28	6.84	2.28	0	2.28	0	0	0	0	0	0	0	0
C312	1.43	2.86	1.43	1.43	1.43	1.43	0	0	0	0	0	0	0
C313	1.86	5.58	3.72	1.86	3.72	1.86	0	0	0	0	0	0	0
C314	1.58	4.74	4.74	4.74	0	3.16	0	0	0	0	0	0	0
C315E1	1.28	3.84	2.56	0	0	1.28	0	1.28	0	0	0	0	0
C316	3	6	3	3	3	3	0	0	0	6	0	0	0
C317	3	6	6	6	9	3	0	0	0	3	0	0	0
C318	2.81	2.81	5.62	5.62	8.43	0	0	0	0	8.43	2.81	0	0
C401	1.93	1.93	1.93	0	3.86	0	3.86	0	0	0	0	0	0
C402	1.37	4.11	2.74	1.37	0	0	1.37	1.37	0	0	0	0	0
C403	2.95	8.85	5.9	0	0	2.95	0	0	0	0	0	0	0
C404	1.64	0	0	0	4.92	0	3.28	3.28	0	1.64	0	4.92	4.92
C405E2	2.86	8.58	0	0	0	2.86	0	2.86	0	0	0	0	0
C406E3	2.85	5.7	2.85	2.85	2.85	2.85	0	0	0	0	0	0	5.7
C407	3	9	6	3	9	3	0	0	0	0	0	0	0
C408	2.49	2.49	0	4.98	7.47	0	2.49	7.47	4.98	2.49	0	2.49	4.98
C409	2.91	8.73	5.82	5.82	0	0	2.91	2.91	0	0	0	2.91	0
C410E4	2.69	8.07	8.07	0	0	0	5.38	5.38	5.38	0	0	0	0
C411E5	2.47	0	0	0	2.47	0	2.47	2.47	4.94	2.47	2.47	4.94	7.41
C412	3	6	6	3	6	6	6	6	3	3	3	6	6

PO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Obtained	259.71	182.82	118.39	137.28	84.95	60.72	61.06	22.43	85.97	26.4	25.53	58.55
Actual	130	96	55	62	40	30	28	9	34	10	11	29
Direct Attainment	2	1.9	2.15	2.21	2.12	2.02	2.18	2.49	2.53	2.64	2.32	2.02
Indirect Attainment	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
Overall Attainment	2.18	2.1	2.3	2.34	2.27	2.19	2.32	2.57	2.6	2.69	2.43	2.19
Target	3	3	3	3	3	3	3	3	3	3	3	3

***Overall Attainment = (0.8*Direct Attainment + 0.2*Indirect Attainment)**

Table 7: PSO Attainment 2015-2019 Batch (Mapped with Weightage)

Course	CO	PSO1	PSO2	PSO3
C101	1.56	1.56	1.56	1.56
C102	1.02	2.04	1.02	0
C103	1.24	1.24	0	0
C104	2.17	2.17	0	0
C105	1.42	1.42	1.42	0
C106	3	3	0	3
C107	2.8	2.8	2.8	0
C108	2.65	2.65	2.65	0
C109	3	3	0	0
C110	3	3	3	3
C111	1.24	1.24	1.24	0
C112	1.11	1.11	0	0
C113	0.91	0.91	0	0
C114	2.04	2.04	0	2.04
C115	1.85	3.7	0	0
C116	2.2	2.2	0	0
C117	2.65	2.65	2.65	0
C118	2.92	5.84	2.92	0
C201	1.31	1.31	0	0
C202	1.28	2.56	0	0
C203	1.22	2.44	0	0
C204	1.13	0	1.13	1.13
C205	1.16	2.32	0	0
C206	1.76	1.76	0	0
C207	3	6	3	0
C208	3	3	3	0
C209	1.71	3.42	1.71	1.71
C210	1.52	1.52	0	0
C211	1.7	3.4	1.7	0
C212	1.34	2.68	0	1.34
C213	2.27	4.54	2.27	0
C214	1.18	1.18	0	0
C215	2.97	5.94	2.97	0
C216	2.91	2.91	2.91	0
C301	1.32	2.64	0	0
C302	1.04	2.08	0	0
C303	2	2	0	2
C304	1.14	2.28	1.14	0
C305	1.02	2.04	0	0
C306	1.22	2.44	1.22	0
C307	3	6	3	0
C308	3	0	0	3
C309	2.95	5.9	0	0
C310	1.27	2.54	1.27	1.27
C311	2.28	4.56	0	0

C312	1.43	1.43	0	0
C313	1.86	3.72	0	0
C314	1.58	3.16	1.58	0
C315E1	1.28	1.28	0	0
C316	3	3	3	0
C317	3	6	3	0
C318	2.81	5.62	2.81	0
C401	1.93	1.93	0	1.93
C402	1.37	2.74	0	1.37
C403	2.95	2.95	0	0
C404	1.64	1.64	1.64	1.64
C405E2	2.86	2.86	0	0
C406E3	2.85	2.85	5.7	0
C407	3	6	0	0
C408	2.49	4.98	2.49	2.49
C409	2.91	5.82	0	2.91
C410E4	2.69	5.38	5.38	2.69
C411E5	2.47	2.47	2.47	2.47
C412	3	6	6	6

PSO ATTAINMENT	PSO1	PSO2	PSO3
Obtained	189.86	78.65	41.55
Actual	93	34	19
Direct Attainment	2.04	2.31	2.19
Indirect Attainment	2.88	2.88	2.88
Overall Attainment	2.21	2.42	2.33
Target	3	3	3

***Overall Attainment = (0.8*Direct Attainment + 0.2*Indirect Attainment)**

Table:8 Program Outcomes (PO) Attainment Comparison

PO	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018	2015-2019
PO1	1.71	1.77	1.7	2.02	1.34	1.96	2.2
PO2	1.65	1.73	1.7	1.99	1.45	1.92	2.16
PO3	1.68	1.84	1.82	2.17	1.7	2.16	2.3
PO4	1.91	1.91	2.224	2.16	1.46	2.12	2.24
PO5	1.77	1.78	1.89	2.22	1.87	2.14	2.34
PO6	1.81	1.91	1.95	2.04	1.84	1.93	2.26
PO7	1.65	1.96	1.98	1.91	1.74	1.96	2.24
PO8	1.93	2.36	2.25	2.42	2.1	2.18	2.54
PO9	1.82	2.13	2.37	2.53	1.99	2.56	2.61
PO10	1.77	2.28	2.22	2.22	2.03	2.38	2.73
PO11	2.08	2.09	2.5	2.31	2.02	2.16	2.5
PO12	1.52	1.96	1.9	1.77	1.96	1.94	2.17

Table:9 Program Specific Outcomes (PSO) Attainment Comparison

PO	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018	2015-2019
PSO1	1.7	1.78	1.82	2	1.7	1.96	2.22
PSO2	1.77	1.94	2.14	2.24	2.34	2.2	2.38
PSO3	1.82	2.14	2.08	1.89	2.23	1.92	2.29

Table:10 Indirect Attainment of POs

POs	Indirect Attainment Level			
	2015-2019 Batch			
	Exit Survey (in %)	Survey Attainment Level	Co-Curricular attainment level	Indirect Attainment
1	96.44	3	1.8	2.88
2	95.84	3	1.8	2.88
3	95.25	3	1.8	2.88
4	94.26	3	1.8	2.88
5	95.45	3	1.8	2.88
6	94.65	3	1.8	2.88
7	96.04	3	1.8	2.88
8	96.04	3	1.8	2.88
9	95.45	3	1.8	2.88
10	96.04	3	1.8	2.88
11	96.24	3	1.8	2.88
12	96.24	3	1.8	2.88
13	95.25	3	1.8	2.88
14	96.83	3	1.8	2.88
15	97.23	3	1.8	2.88

Co-curricular Attainment:

Co-curricular Attainment = $(0.8 \times \text{Mini project attainment} + 0.2 \times \text{Events attended attainment})$

Note: Mini Project Attainment = 1.5 | Events Attended Attainment = 85.15% → 3

Indirect Attainment:

Indirect Attainment = $(0.9 \times \text{Exit Survey Attainment} + 0.1 \times \text{Co-curricular Attainment})$

K.L.N. College of Engineering
Graduation Survey

Dept: EEE Batch : 2019

Nof Entry : 101												
Sl.No.	Question	%										
1	Based on your work experiences since obtaining your undergraduate degree in EEE, what is your impression of the overall quality of your educational experiences that you received at the EEE Programme in KLNCE?	96.44										
2.	Ability to apply knowledge of differential and integral calculus, matrices, transforms techniques and Numerical techniques (PO-1), (PSO-1)	95.84										
3.	Ability to apply knowledge of Material Science and Chemical Science (PO-1),(PSO-1)	95.25										
4.	Ability to apply basic concepts of Civil and Mechanical Engineering (PO- 1),(PSO-1)	94.26										
5.	Ability to design and conduct experiments on Electrical Machines, Analog and Digital Circuits (PO- 4),(PSO-1)	95.45										
6.	Ability to design system like controller circuits, component or process to meet desired needs (PO-3),(PSO-1)	94.65										
7.	Ability to function as a team and to co-ordinate the activities (PO-9),(PSO-2)	96.04										
8.	Ability to identify, formulate and solve problems of Power Systems Engineering / Power Electronics Circuits (PO-2),(PSO-1)	96.04										
9.	Ability to apply ethical principles and commit to professional ethics and responsibilities (PO-8),(PSO-3)	95.45										
10.	Ability to communicate effectively (PO-10),(PSO-3)	96.04										
11.	Ability to apply knowledge to access societal, health, safety, legal and cultural issues relevant to the professional engineering practice (PO-6),(PSO-3)	96.24										
12.	Ability to engage in independent and lifelong learning in the context of technological change (PO-12),(PSO-2)	96.24										
13.	Ability to apply the knowledge of the modern electrical engineering tools such as MATLAB / ETAP / PSCAD / PSIM / PSPICE / Power World Simulator (PO-5),(PSO-2)	95.25										
14.	Ability to demonstrate the knowledge of Engineering and Management principles to your own work / as a member or leader in a team to manage projects (PO-11),(PSO-3)	96.83										
15.	Ability to demonstrate the knowledge of professional engineering solutions in societal and environmental context for sustainable development (PO-7),(PSO-3)	97.23										
Total Average		95.82										
<table><tr><th colspan="5">Your Score</th></tr><tr><td>Poor</td><td>Satisfactory</td><td>Good</td><td>Very Good</td><td>Excellent</td></tr></table>			Your Score					Poor	Satisfactory	Good	Very Good	Excellent
Your Score												
Poor	Satisfactory	Good	Very Good	Excellent								

K.L.N. COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
Details of Marks entered for Exit Survey by Students 2014 -2018 BATCH

S.No .	Record No.	Mail ID of the Student	a1 1	a1 2	a1 3	a1 4	a1 5	a2 1	a2 2	a2 3	a2 4	a2 5	a3 1	a3 2	a3 3	a3 4	a3 5	total (75)	%
1	21485	saravanan1998selvam@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
2	21486		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
3	21487	priyadharsaneeee@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
4	21488		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
5	21506	nithinnoah9092@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
6	21507	ajith417vetha1007@gmail.com	5	4	3	3	4	3	4	3	5	4	5	4	3	4	3	57	76
7	21508	kgmeeee98@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
8	21510	aravindasamy406@gmail.com	4	4	3	3	4	3	4	4	4	4	3	4	4	4	4	56	74.67
9	21511	kuberanselvan@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
10	21607	muthumonishaelango4@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
11	21608	nachammai211998@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
12	21609		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
13	21610	hemalathasankar25@gmail.com	4	5	5	5	4	4	4	4	5	4	4	4	4	4	4	64	85.33
14	21611	harivignesh732@gmail.com	4	5	5	3	5	5	3	5	5	5	4	5	4	5	5	68	90.67
15	21612	hemanthkumarimr1997@gmail.com	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	74	98.67
16	21613	mailmeaarthieeee@gmail.com	4	4	5	4	5	4	5	4	5	5	5	5	3	5	5	68	90.67
17	21614	dsdhaaru@gmail.com	4	4	5	5	5	4	5	4	4	5	4	5	4	4	5	67	89.33
18	21615	27bharathi10@gmail.com	5	5	5	5	5	3	5	5	5	5	5	5	5	5	5	73	97.33
19	21616	merunaline98@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
20	21617	aishuriya1998@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
21	21620	spmcr2023@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
22	21623	mathumetha16@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
23	21627	NANDHAKUMARS2012@GMAIL.COM	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
24	21628	abarnachinnakaruppan@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
25	21629	kaviyavenkatesan1998@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
26	21631	cmsundaram007@gmail.com	5	4	4	3	5	4	4	4	4	4	4	5	4	4	4	62	82.67
27	21634	srivivisa1997@gmail.com	5	5	5	5	4	4	5	4	5	4	5	5	4	5	5	70	93.33

28	21647	ajithklnce@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
29	21648	nivethaananthi1998@gmail.com	5	4	5	4	5	5	5	5	4	4	4	5	5	5	5	70	93.33
30	21649		5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	74	98.67
31	21650	muthubharathi5222@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
32	21651	ajithkannab@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
33	21652	eeswarckspl@gmail.com	5	4	4	5	4	4	5	5	4	4	4	4	5	4	4	65	86.67
34	21653	meharunnisha11@gmail.com	5	4	4	4	5	5	5	5	5	5	5	5	4	5	5	71	94.67
35	21654	shalinikowsalya62@gmail.com	5	5	4	4	5	5	5	5	5	5	5	4	5	5	5	72	96
36	21655	malathirkpt@gmail.com	5	5	4	5	4	4	5	5	5	5	5	5	5	5	5	72	96
37	21658	anand.elakkia@gmail.com	4	4	4	3	4	4	4	3	4	3	4	3	4	4	4	56	74.67
38	21661	gokulkarunanithi98@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
39	21662	chandrelekhakan.20@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
40	21663	logeshselvam@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
41	21664	indhupriya25598@gmail.com	5	4	5	5	5	5	5	5	4	5	5	5	4	5	4	71	94.67
42	21665	aiswaryanagarajan12@gmail.com	5	5	5	5	4	5	4	5	5	5	5	5	5	5	5	73	97.33
43	21666	ramyaravichandran1998@gmail.com	5	4	4	4	5	4	4	5	4	5	5	4	5	5	5	68	90.67
44	21667	rrbalaji05@gmail.com	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	74	98.67
45	21668	yogeswarieeee@gmail.com	4	5	4	5	4	4	5	4	3	4	4	4	4	5	5	64	85.33
46	21669	seenivasan2097@gmail.com	5	5	5	5	4	5	5	5	5	4	5	5	5	5	5	73	97.33
47	21670	Vigneshas.95@gmail.com	5	5	5	3	4	4	5	5	5	5	5	5	5	5	5	71	94.67
48	21671	rajamanickameee98@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
49	21672	smartyuva77@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
50	21673	sangeethaeeee13@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
51	21674		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
52	21675	yuvamareeswaran34@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
53	21676	saravanaalagarsamy@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
54	21677	sangeerthana15@gmail.com	4	5	4	5	5	5	4	5	5	4	5	4	4	5	5	69	92
55	21678	Vijayjosevj5@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
56	21679	acvengat@gmail.com	5	5	5	5	4	5	5	5	5	5	5	5	5	5	4	73	97.33
57	21684	kbsuriyanarayanan@gmail.com	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	60	80
58	21685	vidhyatharan.b1998@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
59	21686	sprakash781@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
60	21687	er.venkieee@gmail.com	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	74	98.67

61	21689	azhagumari.a@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
62	21694	mtpandi555@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
63	21695	omnathsl18@gmail.com	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	60	80
64	21698	prabu1321998@gmail.com	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	74	98.67
65	21699	jerin6617@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
66	21700	siva.sr.ram@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
67	21701	rishekr4@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
68	21702	rajkumar180595@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
69	21703	praveenkumarlheee@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
70	21704	stuntsyed10@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
71	21705	vinoth.mn96@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
72	21706	vimalrajasekar52@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
73	21708	poorvadarshaneee@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
74	21709	sweetieziony@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
75	21711	saraneechamy@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
76	21712		4	3	4	4	4	4	4	4	4	4	4	5	5	5	5	63	84
77	21713	harivhnkln@gmail.com	4	4	4	3	3	4	5	5	4	5	5	4	4	5	5	64	85.33
78	21714	sowmiyamoorthy98@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
79	21715	jaithirupathy007@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
80	21719	starboomi97@gmai.coml	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
81	21720	gunasekaran1030@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
82	21721	lkshmi85@gmail.com	3	4	3	4	3	4	3	3	3	4	4	3	4	3	4	52	69.33
83	21722	amnishaibrahim2015@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
84	21724	p.ajith3498@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
85	21725	dineshpandu.dk@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
86	21726	sdivya111997@gmail.com	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	60	80
87	21736	karnaprakash555@gmail.com	5	5	5	3	5	5	4	5	3	5	4	5	5	4	5	68	90.67
88	21741		4	4	4	4	4	4	4	4	4	4	5	5	5	4	5	64	85.33
89	21742	borishsiva2596@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
90	21745	ramya.meenakshi1@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
91	21774	venkateshjegadeesan@gmail.com	4	5	5	5	5	4	5	5	5	5	4	5	5	5	5	72	96
92	21778	ramprabhu456789123@gmail.com	4	5	4	4	5	5	5	5	4	4	5	4	4	5	5	68	90.67
93	21783	vigneswaraneee28@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100

94	21784	vimalbavas@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
95	21796	sowmiasowmiya9159@gmail.com	5	4	5	5	4	5	5	4	4	5	4	5	5	5	5	70	93.33
96	21801	saiuma98gm@gmail.com	5	5	5	5	5	5	4	5	5	4	5	4	4	4	5	70	93.33
97	21802	Ponmuthu3097@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
98	21803	sonia.kannan4@gmail.com	5	4	5	5	5	4	5	4	5	5	5	5	4	4	5	70	93.33
99	21814	saranyarajagopal1998@gmail.com	5	5	5	4	4	4	5	5	4	5	5	5	4	5	4	69	92
100	21816	kr.arasu3132@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
101	21817	majvasanthvikash98@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100

Questions for Exit Survey

Question No.	Questions
q1	Based on your work experiences since obtaining your undergraduate degree in EEE, what is your impression of the overall quality of your educational experiences that you received at the EEE Programme in KLNCE?
q2.	Ability to apply knowledge of differential and integral calculus, matrices, transforms techniques and Numerical techniques (PO-1), (PSO-1)
q3.	Ability to apply knowledge of Material Science and Chemical Science (PO-1),(PSO-1)
q4.	Ability to apply basic concepts of Civil and Mechanical Engineering (PO- 1),(PSO-1)
q5.	Ability to design and conduct experiments on Electrical Machines, Analog and Digital Circuits (PO-4),(PSO-1)
q6.	Ability to design system like controller circuits, component or process to meet desired needs (PO-3),(PSO-1)
q7.	Ability to function as a team and to co-ordinate the activities (PO-9),(PSO-2)
q8.	Ability to identify, formulate and solve problems of Power Systems Engineering / Power Electronics Circuits (PO-2),(PSO-1)
q9.	Ability to apply ethical principles and commit to professional ethics and responsibilities (PO-8),(PSO-3)
q10.	Ability to communicate effectively (PO-10),(PSO-3)
q11.	Ability to apply knowledge to access societal, health, safety, legal and cultural issues relevant to the professional engineering practice (PO-6),(PSO-3)
q12.	Ability to engage in independent and lifelong learning in the context of technological change (PO-12),(PSO-2)
q13.	Ability to apply the knowledge of the modern electrical engineering tools such as MATLAB / ETAP / PSCAD / PSIM / PSPICE / Power World Simulator (PO-5),(PSO-2)
q14.	Ability to demonstrate the knowledge of Engineering and Management principles to your own work / as a member or leader in a team to manage projects (PO-11),(PSO-3)
q15.	Ability to demonstrate the knowledge of professional engineering solutions in societal and environmental context for sustainable development (PO-7),(PSO-3)

Average Total = 71.86

Average % = 95.82% → 3 Attained

K.L.N. COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Details of Students participated in Inter and Intra College Events 2015 – 2019 BATCH

S. No	Roll No.	Name of the Student	I Year			II Year			III Year			IV Year			Internal (I)	External (E)	Total (T)
			I	E	T	I	E	T	I	E	T	I	E	T			
1	152060	AARTHI M			0	2		2	1	1	2	2	1	3	5	2	7
2	152077	ABARNA C			0	1	1	2	2		2		1	1	3	2	5
3	152044	AHAMED IBRAHIM F			0			0	2		2		1	1	2	1	3
4	152037	AISWARYA N			0			0	1		1	1	1	2	2	1	3
5	152305	AJITH B			0		2	2		1	1		1	1	0	4	4
6	152021	AJITH P			0			0	2		2	1		1	3	0	3
7	152050	AJITHKUMAR M			0			0	1		1	1		1	2	0	2
8	152032	AJITH KUMAR P			0			0	1		1	1	1	2	2	1	3
9	152016	ANAND RAJ K			0		2	2		1	1		1	1	0	4	4
10	152051	ARAVINDASAMY R			0		2	2	2		2		1	1	2	3	5
11	152019	AZHAGU MARI A			0	2		2	1	1	2		1	1	3	2	5
12	152062	BABYSALINI K			0			0	1		1		1	1	1	1	2
13	152048	BHARATHI PANDIAN G			0	1		1	1		1			0	2	0	2
14	152079	BOOMINATHAN			0			0	1		1		1	1	1	1	2
15	152013	CHANDRALEKHA K			0			0	2		2		1	1	2	1	3
16	152070	DHAARINI S			0			0	1		1		1	1	1	1	2
17	152011	DIVYA S			0	2		2	1	1	2	2	3	5	5	4	9
18	152004	GOKUL S M K			0			0	1	2	3		1	1	1	3	4
19	152039	GOWTHAM K			0			0	1		1		1	1	1	1	2
20	152083	GUNASEKARAN S			0			0	1		1			0	1	0	1
21	152017	HARI HARA SUDHAN S			0			0	1		1		2	2	1	2	3
22	152046	HARI VIKNESHWAR D N			0			0	1		1	1	1	2	2	1	3
23	152059	HEMALATHA S			0			0			0		1	1	0	1	1
24	152026	HEMANTH KUMARI M R			0			0		1	1			0	0	1	1
25	152052	INDHUPRIYA K			0			0	2		2	1	1	2	3	1	4
26	152304	ISWARIYA N			0	2	2	4	2		2		1	1	4	3	7
27	152047	JAFFRIN BANU J			0	1		1	3		3	1		1	5	0	5
28	152003	JAIPOORANI T			0	1		1	1	1	2		1	1	2	2	4
29	152045	KALARANJANI S			0			0	1		1	1	1	2	2	1	3

30	152042	KARTHEESWARAMANI C			0			0		2	2		1	1	0	3	3
31	152065	KAVIYA V			0		1	1	2		2		1	1	2	2	4
32	152035	KUBERAN T			0			0	1	1	2			0	1	1	2
33	152074	LAKSHMI P			0			0		1	1			0	0	1	1
34	152041	MALATHI R			0			0	1		1		1	1	1	1	2
35	152034	MANODHARSHINI S			0	1	1	2	2		2			0	3	1	4
36	152014	MATHU METHA K			0		1	1	1		1			0	1	1	2
37	152058	MEHARUNNISHA S			0	1		1	2		2			0	3	0	3
38	152008	MERUNALINE S			0	1	1	2	1		1		1	1	2	2	4
39	152054	MUTHUBHARATHI M			0			0	1	1	2	1		1	2	1	3
40	152002	MUTHUMONISHA E			0		1	1	1	1	2	1		1	2	2	4
41	152005	NACHAMMAI A			0	1		1	2	1	3	1		1	4	1	5
42	152018	NANDHA KUMAR S			0	1	5	6		2	2	1	1	2	2	8	10
43	152301	NISHA A M			0			0	1	2	3	1		1	2	2	4
44	152068	NITHINNOAH R			0			0	1		1		2	2	1	2	3
45	152055	NIVETHA S			0	1		1	1		1	1	1	2	3	1	4
46	162910	DINESH KUMAR P			0		1	1			0			0	0	1	1
47	162906	ELAVARASAN R			0			0		1	1	1		1	1	1	2
48	162903	KARNA PRAKASH A			0			0	1		1		1	1	1	1	2
49	162904	LOGESH S			0		1	1		1	1		1	1	0	3	3
50	162907	MEENAKSHI SUNDARAM C			0			0	1		1	1	1	2	2	1	3
51	152033	OMNATH S L			0	1		1	2	2	4		2	2	3	4	7
52	152084	PALPANDI M			0			0	1	1	2		1	1	1	2	3
53	152064	PONMUTHULAKSHMI S			0			0	2	2	4		1	1	2	3	5
54	152057	POORVA DHARSHAN T			0			0	2		2			0	2	0	2
55	152102	PRAVEEN KUMAR L H			0			0	1	2	3			0	1	2	3
56	152076	PRIYADHARSAN N			0			0		1	1			0	0	1	1
57	152071	PRIYA LAKSHMI K S			0			0	1	1	2		1	1	1	2	3
58	152303	RAHUL J			0			0	1	2	3		1	1	1	3	4
59	152040	RAJAMANICKAM K			0			0	1	2	3		1	1	1	3	4
60	152001	RAMESH BALAJI R			0	1		1		2	2		1	1	1	3	4
61	152049	RAMPRABHU K R			0			0			0		1	1	0	1	1
62	152030	RAMYA R	1		1	1		1	2	1	3		1	1	4	2	6
63	152006	RAMYAMEENAKSHI T S			0	1	1	2	2	1	3			0	3	2	5
64	152103	RISHENATHKUMAR K R			0			0		1	1			0	0	1	1

65	152078	SANGARESWARI R			0			0	1	1	2		1	1	1	2	3
66	152009	SANGEERTHANA S			0			0	3	1	4			0	3	1	4
67	152015	SANGEETHA M			0			0		2	2		1	1	0	3	3
68	152061	SARANYA M	1		1			0	1	1	2		1	1	2	2	4
69	152302	SARANYALAKSHMI R			0			0		3	3		2	2	0	5	5
70	152053	SARAVANA KUMAR A			0			0	1	2	3		1	1	1	3	4
71	152043	SARAVANAN S			0			0		1	1			0	0	1	1
72	152066	SEENIVASAN M K			0			0			0		1	1	0	1	1
73	152029	SIVABALAN M			0			0	2		2		1	1	2	1	3
74	152056	SIVARAM A			0			0		2	2		1	1	0	3	3
75	152075	SONIA K			0			0		4	4		1	1	0	5	5
76	152080	SOWMIYA M			0			0	2	1	3		1	1	2	2	4
77	152022	SOWMIYA S			0			0	2	2	4			0	2	2	4
78	152063	SURIYA NARAYANAN K B			0			0	2	1	3		1	1	2	2	4
79	152036	SURYA PRAKASH G		1	1			0			0		1	1	0	2	2
80	152069	SWEETY ZIONY S	1		1		1	1	1	2	3		1	1	2	4	6
81	152028	UMAMAHESHWARI R			0			0	1	3	4		1	1	1	4	5
82	152031	VASANTHA VIKASH P			0			0	3	1	4			0	3	1	4
83	152023	VENKATESHAN M			0		1	1		2	2		1	1	0	4	4
84	152027	VENKATESH KUMAR J		1	1			0	1		1		1	1	1	2	3
85	152073	VIDHYATHARAN B	1	2	3			0	2	1	3	1	1	2	4	4	8
86	152082	VIGNESWARAN P			0			0			0			0	0	0	0
87	152020	VIJI A			0			0	1	1	2			0	1	1	2
88	152101	VIMAL B S			0			0		1	1		1	1	0	2	2
89	152081	VIMAL RAJA SEKAR M			0			0	2	2	4		1	1	2	3	5
90	152012	YOGAPRIYA K			0			0	1		1		1	1	1	1	2
91	152067	YOGESWARI M			0			0	1	2	3	1	1	2	2	3	5
92	152038	YUVALAKSHMAN K	1	1	2			0	2	3	5	1	2	3	4	6	10
93	152025	YUVAMAREESWARAN J			0			0	2	1	3		1	1	2	2	4
94	162911	PRABU P			0			0			0		2	2	0	2	2
95	162912	RAJKUMAR P			0			0			0			0	0	0	0
96	162909	SIVACHANDRAN V			0			0			0			0	0	0	0
97	162908	SYED BADRUDEEN G			0			0	1	1	2		2	2	1	3	4
98	162901	VENGATESH C			0			0			0		1	1	0	1	1
99	162902	VIGNESH A S			0			0	1	1	2		1	1	1	2	3

100	162905	VINOTH M			0			0		1	1		1	1	0	2	2
101	172401	VIJAY JOSE W			0			0		1	1			0	0	1	1
			I	10	II	46	III	185	IV	102	151	192	343				

Attainment Calculation:

Number of Students participated in Inter College Events	151
Number of Students participated in Intra College Events	192
Number of Students participated more than two Events (≥ 2)	86
Percentage of Students participated more than two Events	85.15%
Attainment Level	3

K.L.N. COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
MINI PROJECT CONTEST-[2015-2019 BATCH]

S.No.	Roll	Name	26.8.16	21-23.2.17	29.1.18	19.9.18
			15-16	16-17	17-18	18-19
1	152060	AARTHI M	90	65	95	26.68
2	152077	ABARNA C	90	65	91	33.35
3	152044	AHAMED IBRAHIM F	85	60	86	33.35
4	152037	AISWARYA N	98	65	86	40.02
5	152305	AJITH B	93	65	91	53.36
6	152021	AJITH P	85	65	90	66.7
7	152050	AJITHKUMAR M		60	86	33.35
8	152032	AJITH KUMAR P	85	65	86	33.35
9	152016	ANAND RAJ K	93	65	87	33.35
10	152051	ARAVINDASAMY R	93	65	91	53.36
11	152019	AZHAGU MARI A	90	65	95	26.68
12	152062	BABYSALINI K	90	90	98	26.68
13	152048	BHARATHI PANDIAN G	93	65		26.68
14	152079	BOOMINATHAN	91	60	90	66.7
15	152013	CHANDRALEKHA K	89	65	94	40.02
16	152070	DHAARINI S	89	65	94	40.02
17	152011	DIVYA S	82	50	86	26.68
18	152004	GOKUL S M K	90	70	87	33.35
19	152039	GOWTHAM K	91	65	84	26.68
20	152083	GUNASEKARAN S	85	0	87	33.35
21	152017	HARI HARA SUDHAN S	91	65	84	26.68
22	152046	HARI VIKNESHVAR D N	91	65	86	33.35
23	152059	HEMALATHA S	89	65	94	40.02
24	152026	HEMANTH KUMARI M R	89	65	94	40.02
25	152052	INDHUPRIYA K	90	65	89	40.02
26	152304	ISWARIYA N	90	65	91	33.35
27	152047	JAFFRIN BANU J	91	70	93	60.03
28	152003	JAIPOORANI T	82	75	86	26.68
29	152045	KALARANJANI S	90	90	98	26.68
30	152042	KARTHEESWARAMANI C	85	65	83	33.35
31	152065	KAVIYA V	90	65	91	33.35
32	152035	KUBERAN T	85	0	83	33.35
33	152074	LAKSHMI P	82	75	86	26.68
34	152041	MALATHI R	90	90	98	26.68
35	152034	MANODHARSHINI S	91	70	93	60.03
36	152014	MATHU METHA K	91	70	93	60.03

37	152058	MEHARUNNISHA S	90	70	93	60.03
38	152008	MERUNALINE S	90	65	91	33.35
39	152054	MUTHUBHARATHI M	93	65	83	33.35
40	152002	MUTHUMONISHA E	91	70	89	46.69
41	152005	NACHAMMAI A	90	70	89	46.69
42	152018	NANDHA KUMAR S	85	65	90	66.7
43	152301	NISHA A M	91	70	89	46.69
44	152068	NITHINNOAH R	91	0	84	26.68
45	152055	NIVETHA S	90	90	98	26.68
46	162910	DINESH KUMAR P		65		26.68
47	162906	ELAVARASAN R		65		26.68
48	162903	KARNA PRAKASH A		65	91	53.36
49	162904	LOGESH S	85	65	87	33.35
50	162907	MEENAKSHI SUNDARAM C		60	90	66.7
51	152033	OMNATH S L	85	60	92	93.38
52	152084	PALPANDI M	86	0	51	60.03
53	152064	PONMUTHULAKSHMI S	85	75	96	86.71
54	152057	POORVA DHARSHAN T	89	70	83	60.03
55	152102	PRAVEEN KUMAR L H	85	60	92	93.38
56	152076	PRIYADHARSAN N	85	0	51	66.7
57	152071	PRIYA LAKSHMI K S	86	75	81	53.36
58	152303	RAHUL J	86	70	83	60.03
59	152040	RAJAMANICKAM K	86	60	53	66.7
60	152001	RAMESH BALAJI R	85	60	53	66.7
61	152049	RAMPRABHU K R	88	0	53	66.7
62	152030	RAMYA R	97	0	87	60.03
63	152006	RAMYAMEENAKSHI T S	90	60	82	66.7
64	152103	RISHENATHKUMAR K R	85	60	51	66.7
65	152078	SANGARESWARI R	86	75	81	53.36
66	152009	SANGEERTHANA S	86	70	96	86.71
67	152015	SANGEETHA M	85	75	81	53.36
68	152061	SARANYA M	97	65	87	60.03
69	152302	SARANYALAKSHMI R	95	75	93	60.03
70	152053	SARAVANA KUMAR A	85	65	51	66.7
71	152043	SARAVANAN S	90	65	93	60.03
72	152066	SEENIVASAN M K	88	70	81	60.03
73	152029	SIVABALAN M	90	70	93	60.03
74	152056	SIVARAM A	85	65	53	66.7
75	152075	SONIA K	95	75	93	60.03
76	152080	SOWMIYA M	90	65	87	60.03
77	152022	SOWMIYA S	85	70	96	86.71
78	152063	SURIYA NARAYANAN K B	85	70	92	93.38

79	152036	SURYA PRAKASH G	89	60	95	60.03
80	152069	SWEETY ZIONY S	95	70	82	66.7
81	152028	UMAMAHESHWARI R	95	75	93	60.03
82	152031	VASANTHA VIKASH P	89	70	93	60.03
83	152023	VENKATESHAN M	88	70	81	60.03
84	152027	VENKATESH KUMAR J	86	65	95	60.03
85	152073	VIDHYATHARAN B	86	65	97	86.71
86	152082	VIGNESWARAN P	86	65	95	60.03
87	152020	VIJI A	86	75	81	53.36
88	152101	VIMAL B S	88	70	81	60.03
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93	152025	YUVAMAREESWARAN J	90	70	93	60.03
94	162911	PRABU P	89	70	83	60.03
95	162912	RAJKUMAR P	89	70	51	60.03
96	162909	SIVACHANDRAN V	89	0	81	60.03
97	162908	SYED BADRUDEEN G	85	70	92	93.38
98	162901	VENGATESH C	86	0	51	60.03
99	162902	VIGNESH A S	89	60	95	60.03
100	162905	VINOTH M	86	65	97	86.71
101	172401	VIJAY JOSE W		0	83	60.03
Total Participated			95	91	98	101
Students >= 75 Marks			95	14	88	11
%			100	15.38	89.8	10.89
Attainment			3	0	3	0

Attainment (Average) = 1.5

Table: 11 Course Outcome Attainment – Courses with low (<1.5) attainment (2015 – 2019)

S. No.	Course Code	Course Name	Attainment Obtained	Observations	Action Plan
1.	C102	Mathematics-I	1.02	Performance in CITs and AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
2.	C103	Engineering Physics-I	1.24	Performance in few CITs and AU is low.	1. Change of books suggested. 2. AU solved paper will be given.
3.	C105	Computer Programming	1.42	Performance of lateral entry students in CITs, AU are not satisfactory.	1. Slow learners were identified. Special coaching classes are planned and conducted to them.
4.	C111	Mathematics – II	1.24	Performance of lateral entry students in CITs, AU are not satisfactory.	1. Slow learners were identified. Special coaching classes are planned and conducted to them.
5.	C112	Engineering Physics-II	1.11	Performance in few CITs and AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
6.	C113	Engineering Chemistry-II	0.91	Performance in AU is low.	Presentation methodology will be improved.
7.	C201	Transforms and Partial Differential Equations	1.31	Performance in AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
8.	C202	Digital Logic Circuits	1.28	Performance in few CITs and AU is low.	More practice will be given in solving problems.
9.	C203	Electromagnetic Theory	1.22	Performance in few CITs and AU is low.	1. Important AU questions will be solved and supplied.
10.	C204	Environmental Science and Engineering	1.13	Performance in few CITs and AU is low.	2. Retest will be conducted regularly.
11.	C205	Electronic Devices and Circuits	1.16	Performance in CITs and AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
12.	C212	Transmission and Distribution	1.34	Performance in few CITs and AU is low.	1. Change of books suggested. 2. AU solved paper will be given.
13.	C214	Measurements and Instrumentation	1.18	Performance of lateral entry students in CITs, AU are not satisfactory.	1. Slow learners were identified. Special coaching classes are planned and conducted to them.
14.	C301	Power System Analysis	1.32	Performance of lateral entry students in CITs, AU are not	1. Slow learners were identified. Special

				satisfactory.	coaching classes are planned and conducted to them.
15.	C302	Microprocessors and Microcontrollers	1.04	Performance in few CITs and AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
16.	C304	Power Electronics	1.14	Performance in AU is low.	Presentation methodology will be improved.
17.	C305	Electrical MachinesII	1.02	Performance in AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
18.	C306	Control Systems	1.22	Performance in few CITs and AU is low.	More practice will be given in solving problems.
19.	C310	Communication Engineering	1.27	Performance in few CITs and AU is low.	1. Important AU questions will be solved and supplied.
20.	C312	Embedded Systems	1.43	Performance in few CITs and AU is low.	2. Retest will be conducted regularly.
21.	C315E1	Power System Transients	1.28	Performance in CITs and AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
22.	C402	Protection and Switchgear	1.37	Performance in few CITs and AU is low.	1. Change of books suggested. 2. AU solved paper will be given.

POs Attainment Levels and Actions for improvement – CAY (2015 – 2019 batch)

POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	3	2.2	Attainment is Marginal
Action 1: Remedial classes are planned for students failed in Internal test. Special Coaching classes are planned for first year students. Action 2: Students counseling planned. Action 3: Additional classes are planned for Digital Logic circuits. Action 4: Answering Techniques in University examination is to be stressed. Action 5: Assignments satisfying different learning level is planned. Action 6: Bridge courses are planned.			
PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
PO2	3	2.16	Attainment is slightly low. Need to provide more workshops and seminars.
Action 1: Remedial classes are planned for students failed in internal test. Action 2: Workshop on Digital Logic Circuits and Linear Integrated Circuits are planned. Action 3: Special classes are planned for problematic subjects.			
PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
PO3	3	2.3	Attainment is Marginal
Action 1: Remedial classes are planned for poor students.			
PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO4	3	2.24	Attainment is marginal

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.			
PO5	3	2.34	Attainment is marginal.
Action 1: Quizzes and Seminars are planned Action 2: Mini Project contest is planned Action 3: Content beyond experiment using modern tool / technique is planned in the laboratory.			
PO6 : The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO6	3	2.26	Attainment is good
Action 1: Mini Project contest, Paper publication in seminar and conferences.			
PO7: Environment and sustainability: Understand the impact of the professional engineering			

solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.			
PO7	3	2.24	Attainment is marginal

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
PO8	3	2.54	Attainment is good

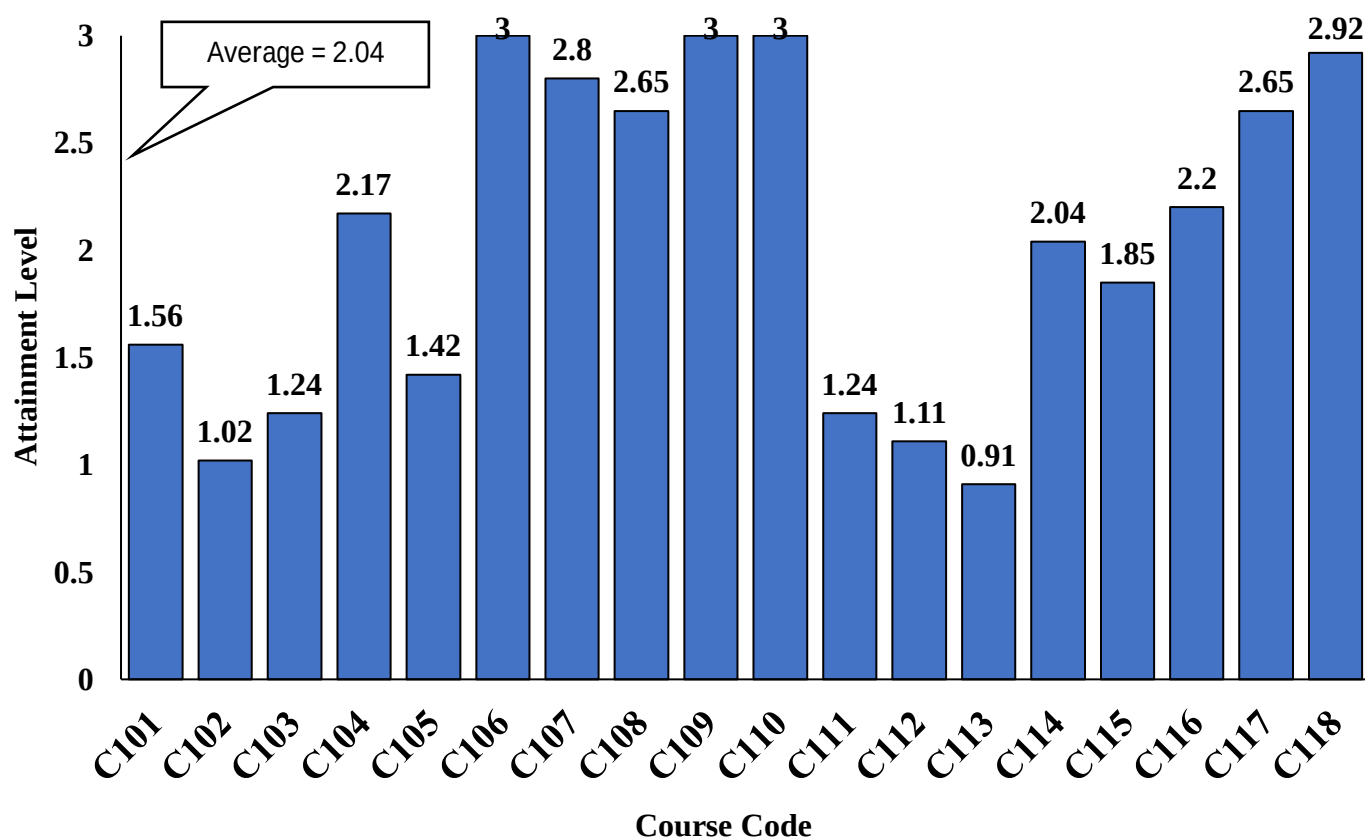
PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
PO9	3	2.61	Attainment is marginal

PO10 : Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			
PO10	3	2.73	Attainment is good

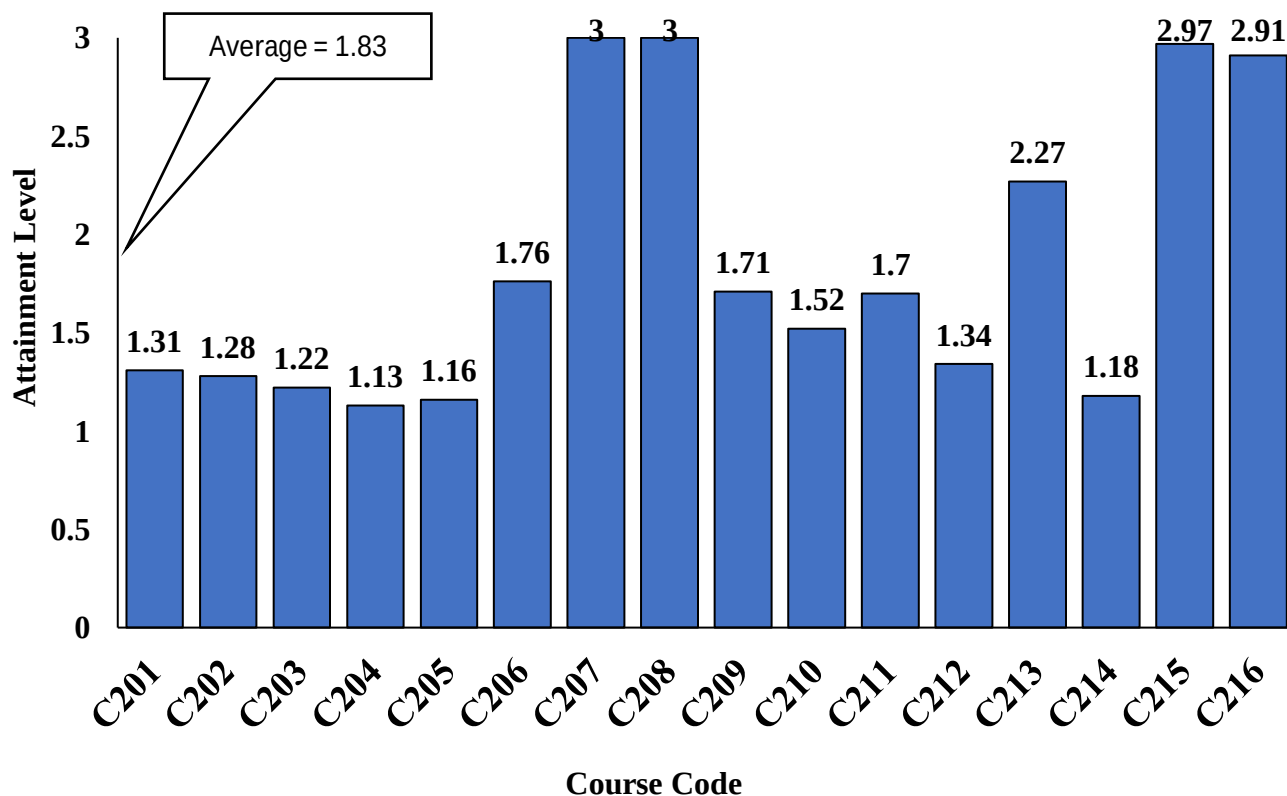
PO11 : Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			
PO11	3	2.5	Attainment is good

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			
PO12	3	2.17	Attainment is marginal

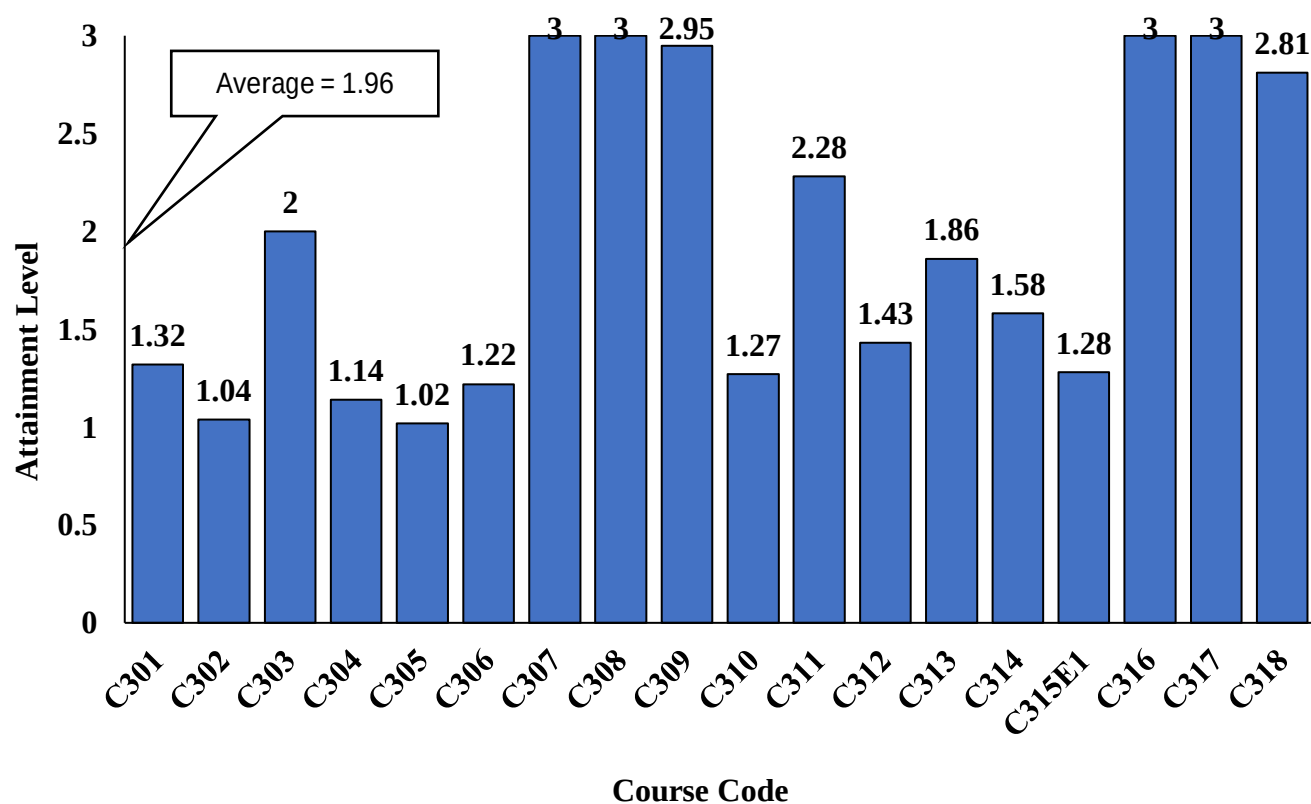
Graph 1: CO Attainment – First Year (2015 – 2019 Batch)



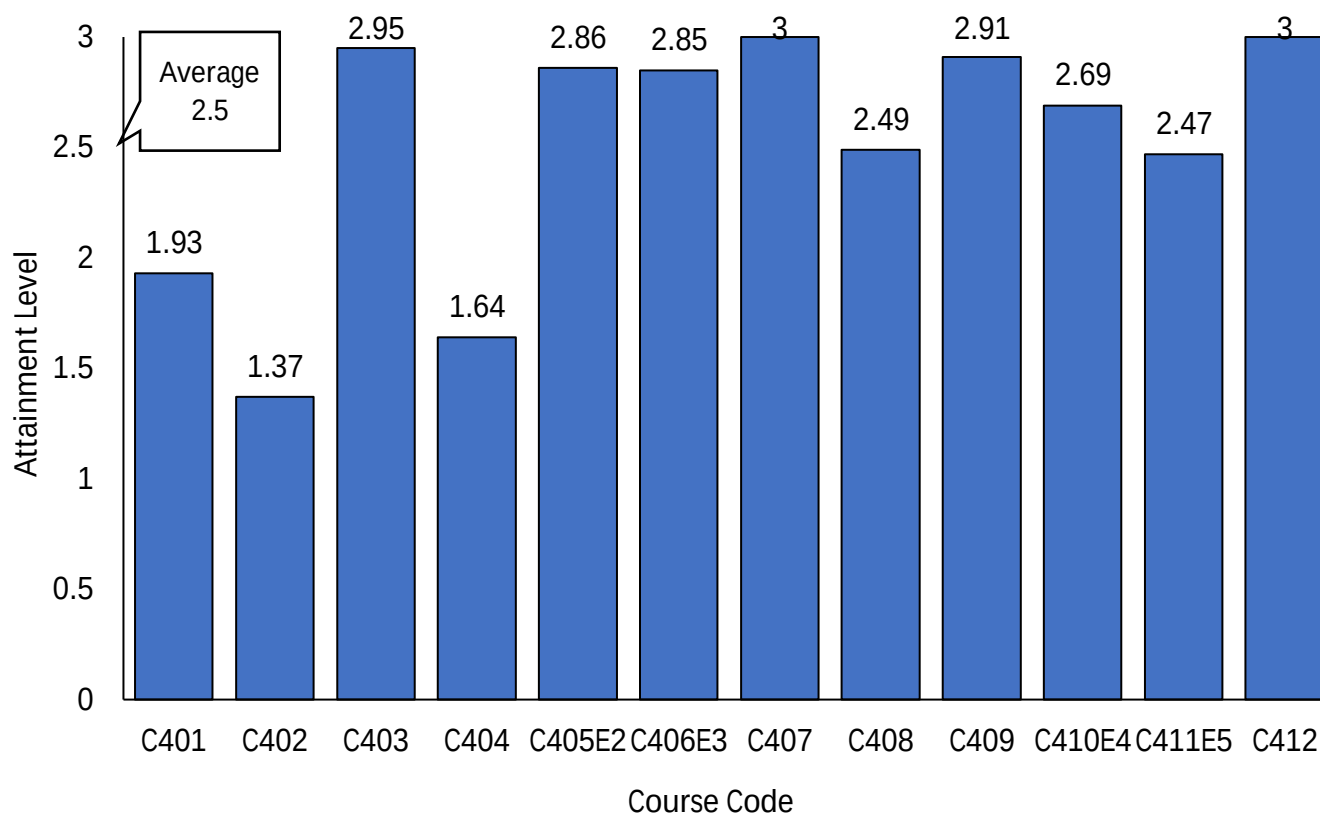
Graph 2: CO Attainment – Second Year (2015 – 2019 Batch)



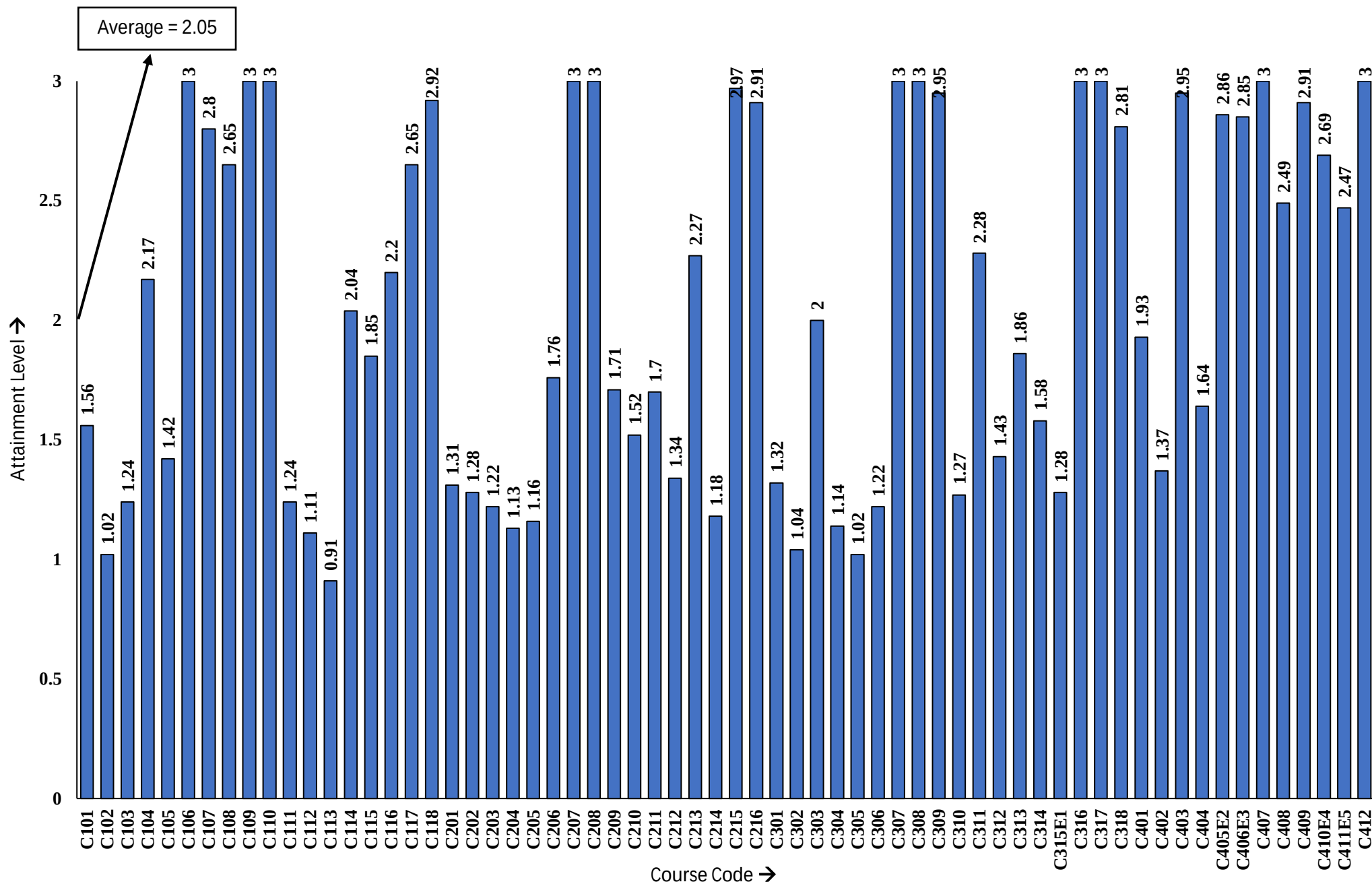
Graph 3: CO Attainment – Third Year (2015 – 2019 Batch)



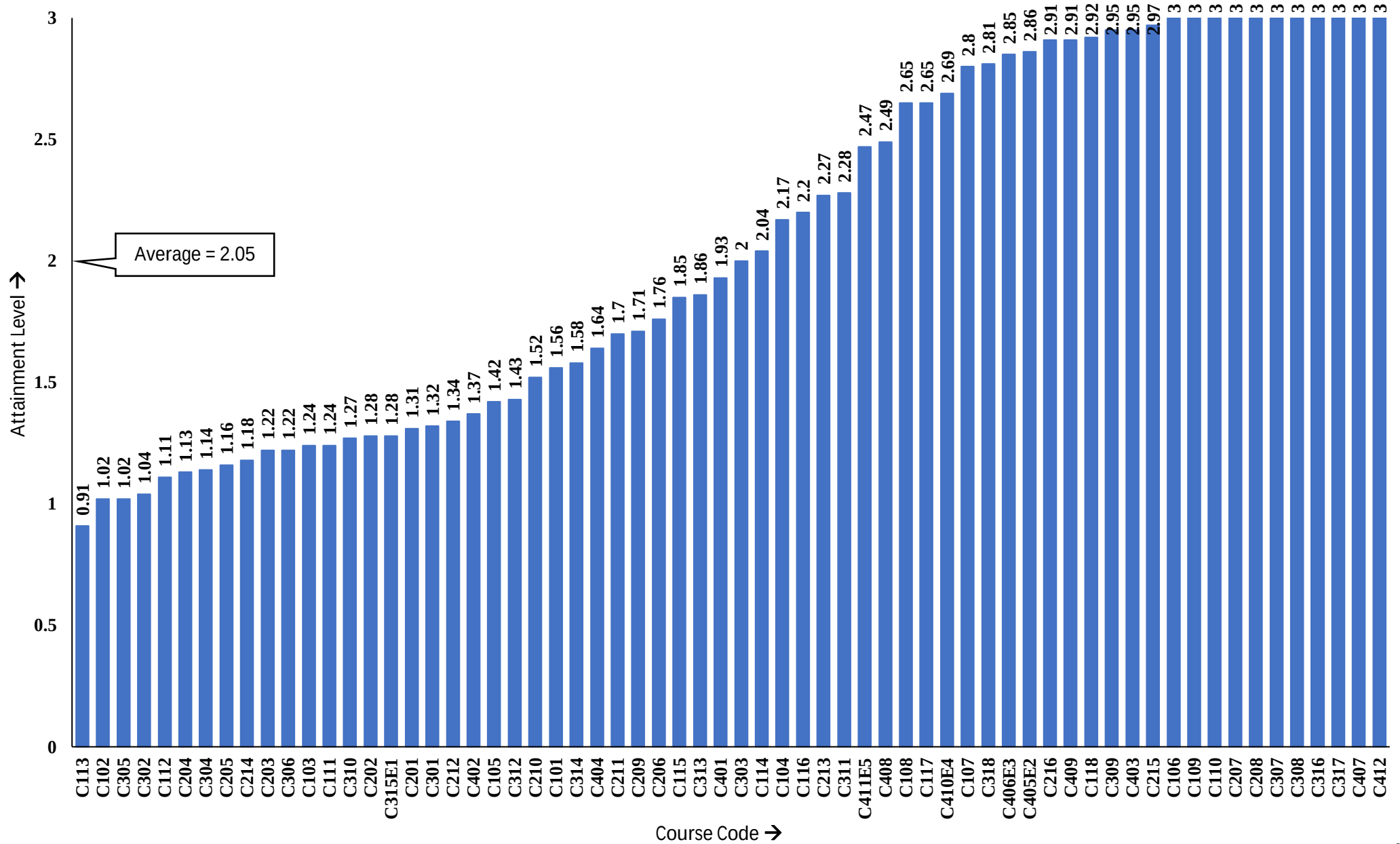
Graph 4: CO Attainment – Final Year (2015 – 2019 Batch)



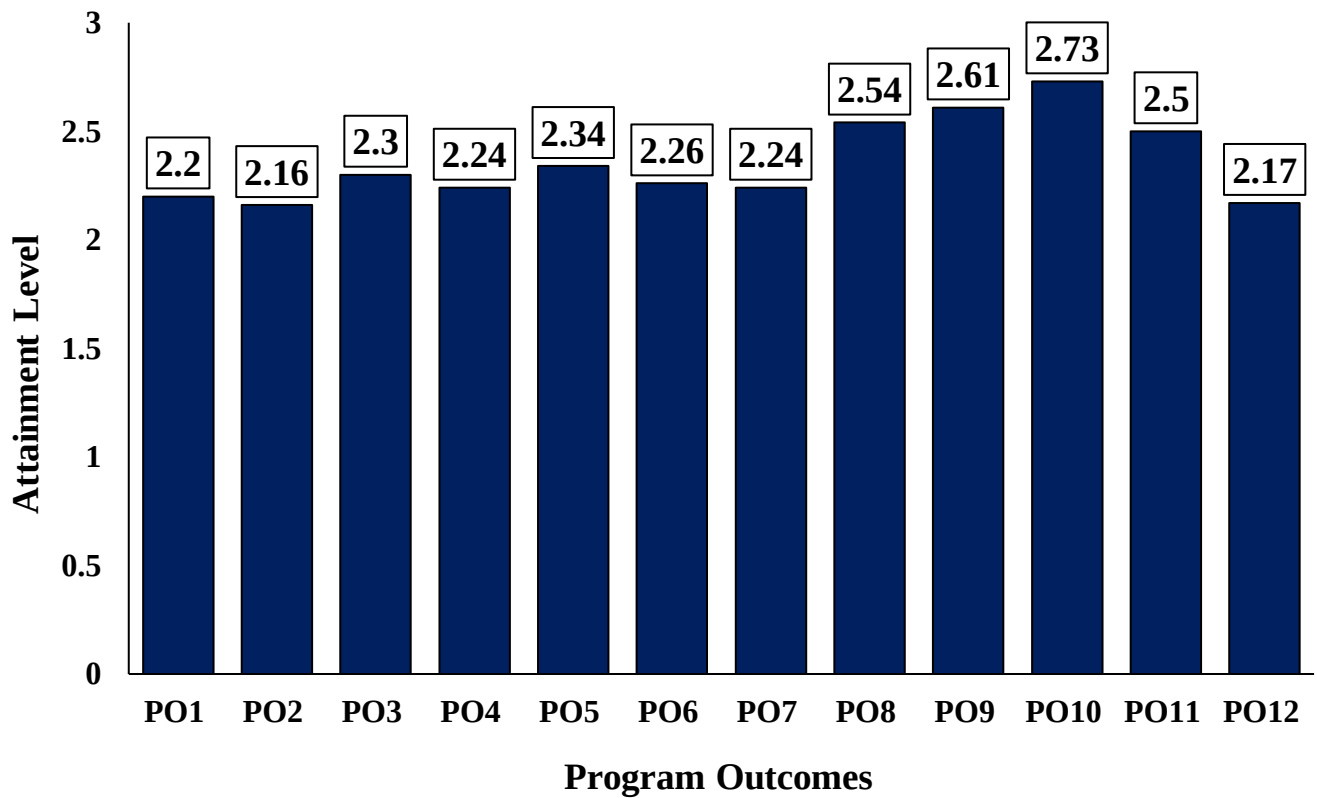
Graph 5: CO Attainment – Consolidated (2015 – 2019 Batch)



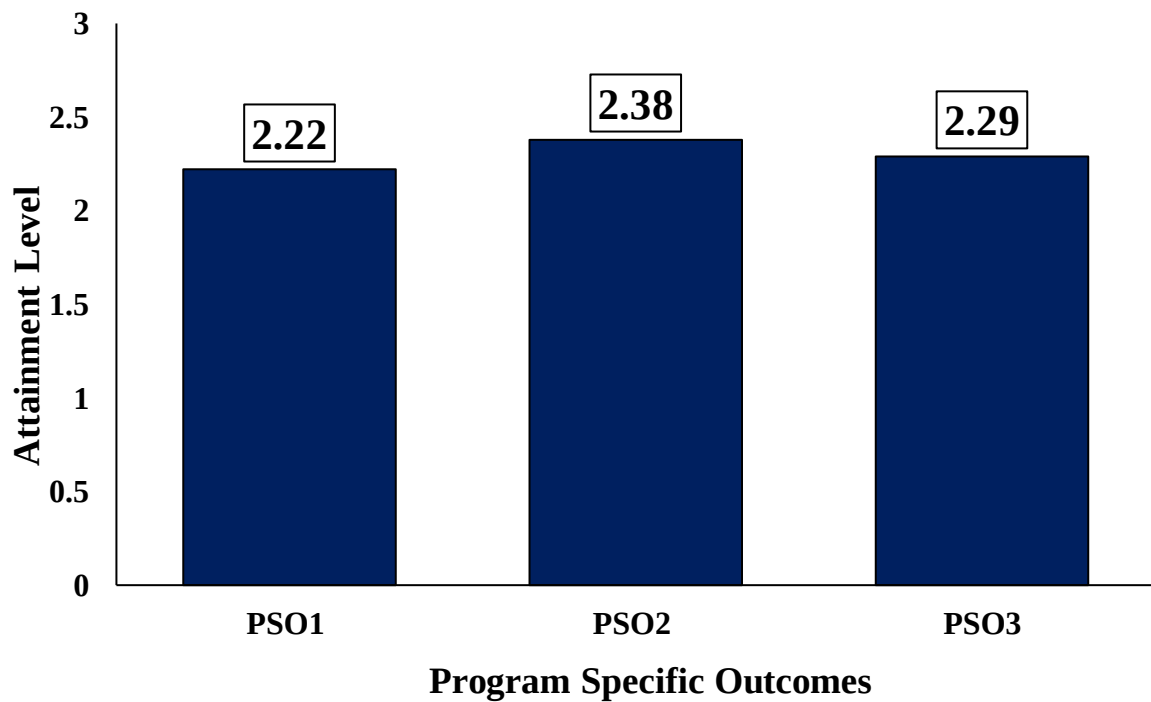
Graph 6: CO Attainment – Consolidated - Ascending (2015 – 2019 Batch)



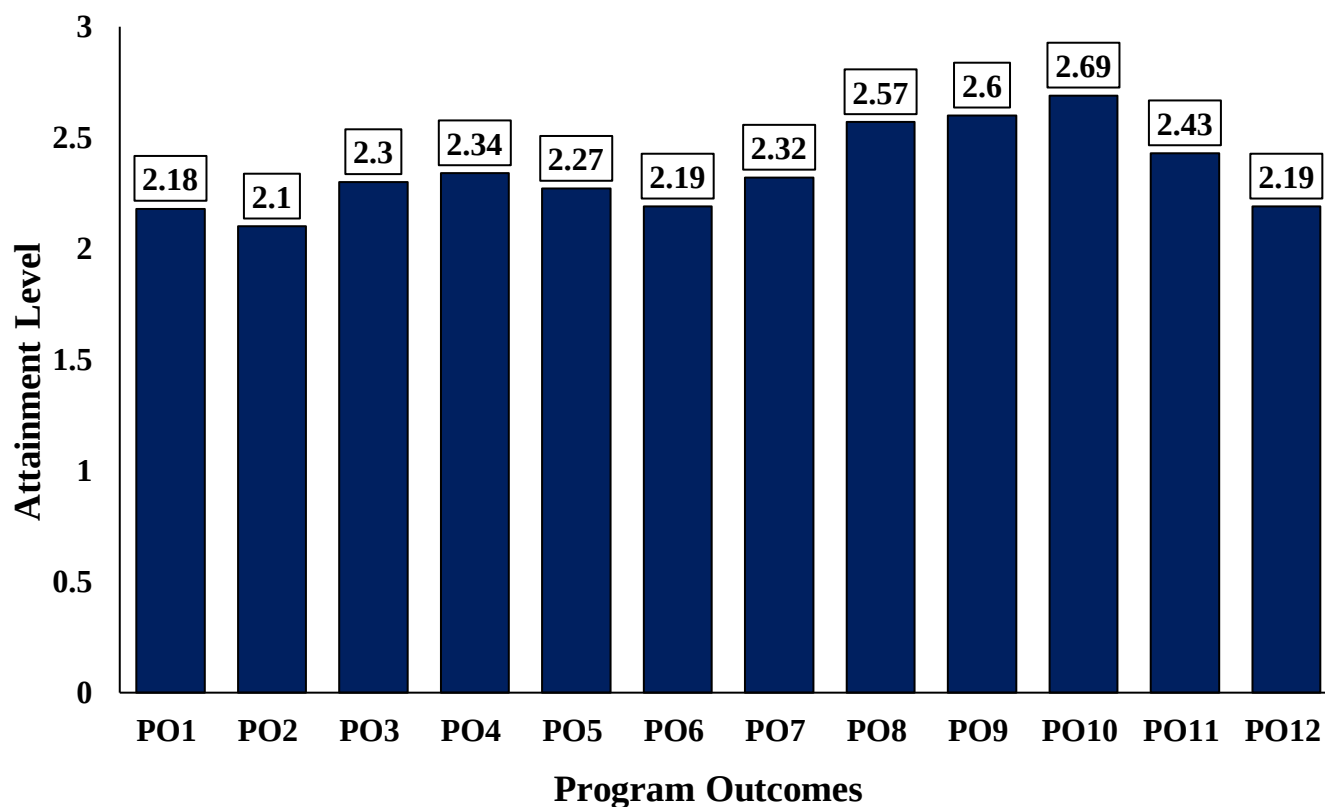
Graph 7: PO Attainment – Without Weightage (2015 – 2019 Batch)



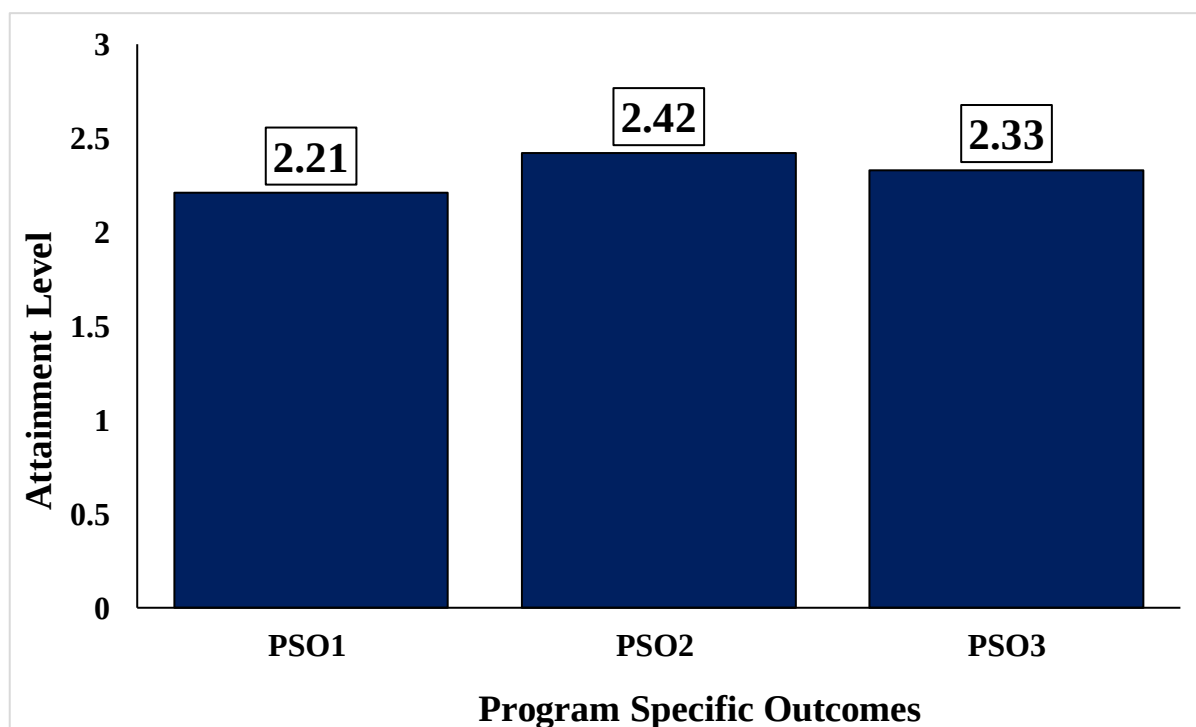
Graph 8: PSO Attainment – Without Weightage (2015 – 2019 Batch)



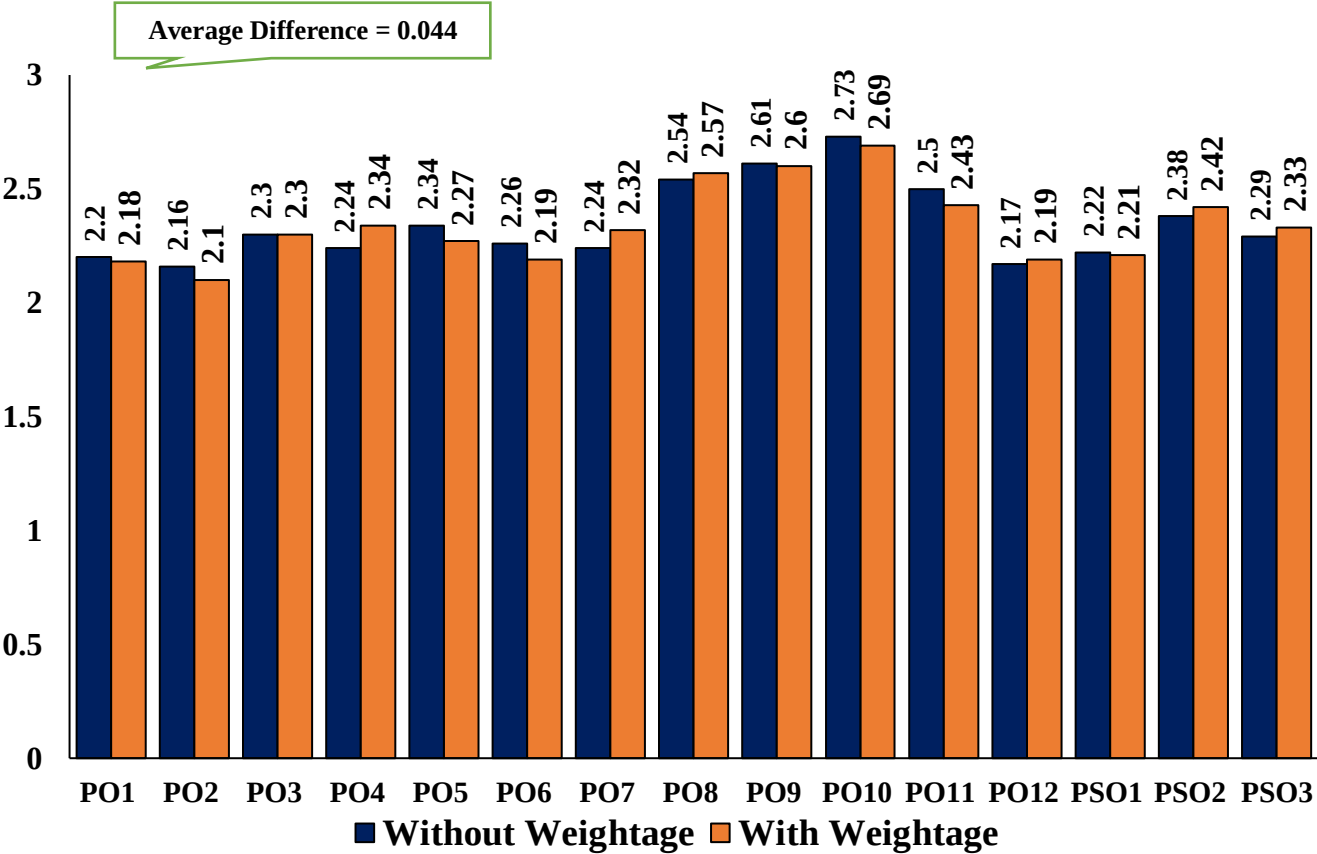
Graph 9: PO Attainment – With Weightage (2015 – 2019 Batch)



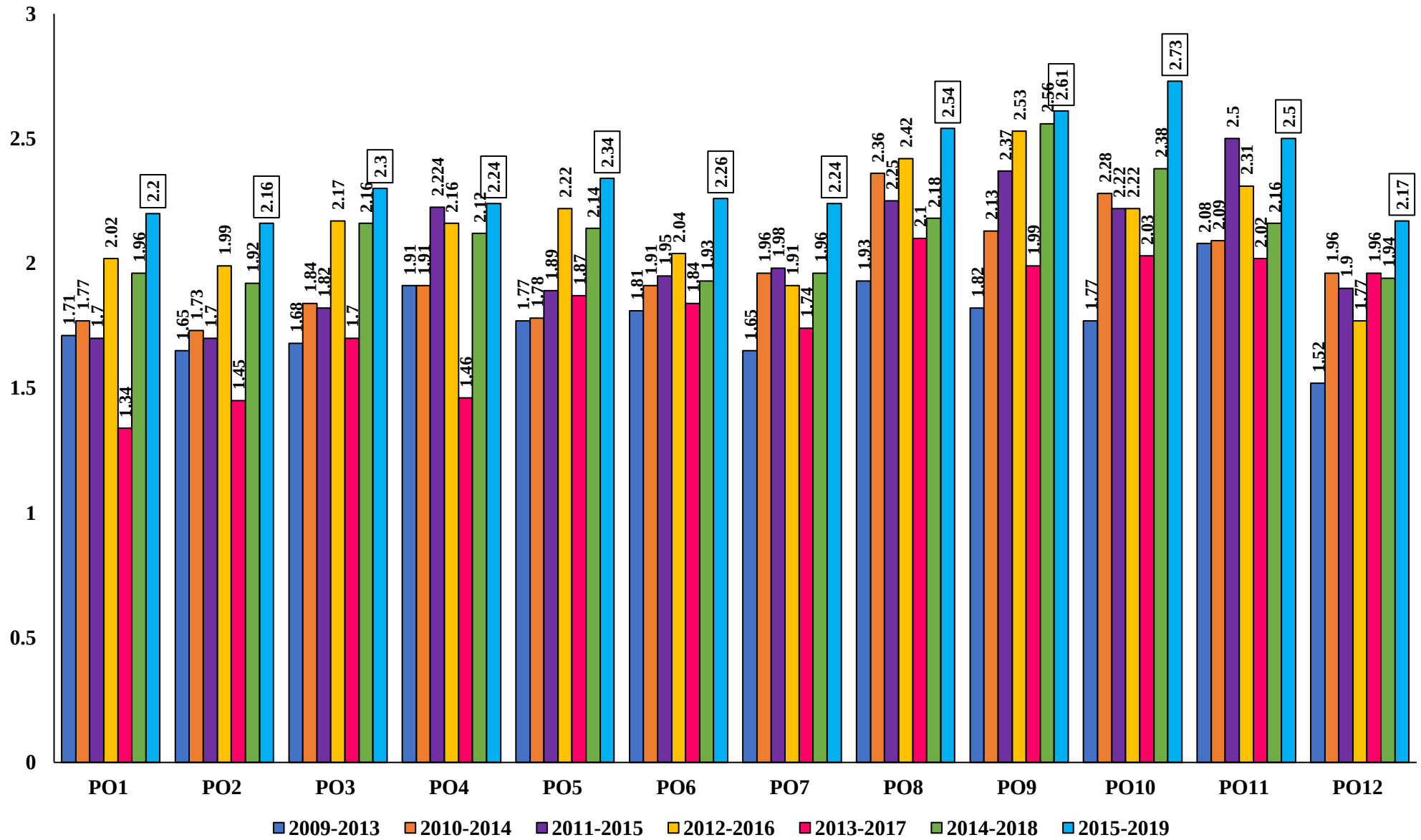
Graph 10: PSO Attainment – With Weightage (2015 – 2019 Batch)



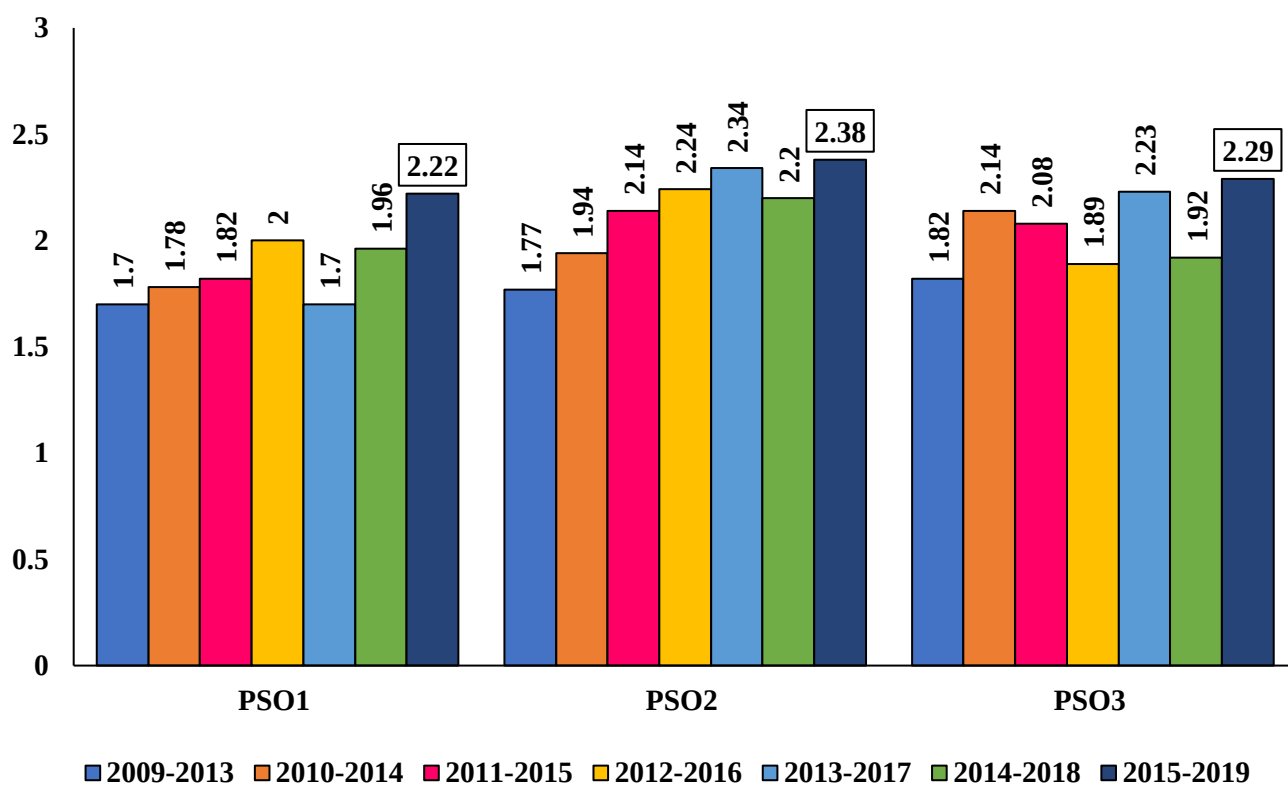
Graph 11: PO, PSO Attainment – With and Without Weightage Comparison



Graph 12: PO Attainment Comparison



Graph 13: PSO Attainment – Comparison



KLNCE/B.E - EEE – 2015-2019 Batch – Course: HS6151 Technical English -I: C101
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignments			AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	152001	72	72	64	64	97	95	85	100	C
2	152002	88	88	81	81	86	80	100	100	C
3	152003	78	78	94	94	94	100	100	100	B
4	152004	60	60	70	70	75	80	100	100	U
5	152005	82	82	90	90	93	90	100	100	C
6	152006	74	74	76	76	87	95	85	100	C
7	152007	67	67	64	64	90	100	85	100	C
8	152008	80	80	81	81	87	90	100	100	D
9	152009	60	60	70	70	93	90	80	100	E
10	152011	83	83	86	86	91	85	100	100	E
11	152012	32	32	50	50	85	90	75	100	E
12	152013	70	70	70	70	77	100	100	100	C
13	152014	81	81	91	91	92	80	100	100	D
14	152015	61	61	50	50	85	95	85	100	D
15	152016	83	83	85	85	87	90	100	100	E
16	152017	78	78	74	74	80	80	100	100	E
17	152018	84	84	74	74	78	80	100	100	D
18	152019	88	88	90	90	92	90	100	100	E
19	152020	57	57	64	64	85	90	80	100	E
20	152021	77	77	74	74	79	90	100	100	E
21	152022	52	52	72	72	86	100	80	100	D
22	152023	57	57	55	55	82	85	80	100	D
23	152025	62	62	72	72	89	90	80	100	B
24	152026	93	93	86	86	91	90	100	100	C
25	152027	65	65	50	50	85	90	90	100	D
26	152028	56	56	51	51	92	95	85	100	D
27	152029	73	73	76	76	94	100	80	100	C
28	152030	67	67	71	71	86	90	90	100	D
29	152031	68	68	68	68	88	95	75	100	C
30	152032	68	68	79	79	81	80	100	100	E
31	152033	60	60	50	50	94	90	80	100	E
32	152034	84	84	86	86	89	90	100	100	B
33	152035	68	68	76	76	81	80	100	100	B
34	152036	51	51	66	66	96	90	85	100	D
35	152037	75	75	90	90	91	90	100	100	B
36	152038	68	68	62	62	96	95	90	100	C
37	152039	64	64	78	78	83	90	100	100	U
38	152040	60	60	50	50	88	95	80	100	C
39	152041	77	77	88	88	91	90	100	100	B
40	152042	82	82	85	85	91	80	100	100	C
41	152043	20	20	31	31	82	95	75	100	U
42	152044	77	77	79	79	83	80	100	100	C
43	152045	75	75	79	79	86	100	100	100	E
44	152046	79	79	90	90	94	80	100	100	D
45	152047	84	84	86	86	90	90	100	100	D
46	152048	65	65	82	82	86	90	100	100	E
47	152049	50	50	61	61	94	85	70	100	E

48	152050	60	60	A	A	73	80	100	100	E
49	152051	81	81	89	89	91	100	100	100	D
50	152052	83	83	88	88	92	100	100	100	E
51	152053	55	55	65	65	94	95	80	100	B
52	152054	65	65	76	76	81	80	100	100	E
53	152055	66	66	85	85	88	90	100	100	D
54	152056	67	67	60	60	83	95	80	100	C
55	152057	60	60	62	62	84	90	80	100	C
56	152058	83	83	91	91	93	90	100	100	C
57	152059	84	84	89	89	92	100	100	100	C
58	152060	86	86	92	92	94	100	100	100	B
59	152061	60	60	65	65	94	90	80	100	C
60	152062	60	60	75	75	80	100	100	100	U
61	152063	64	64	71	71	85	80	80	100	D
62	152064	75	75	57	57	94	90	90	100	D
63	152065	80	80	89	89	93	100	100	100	E
64	152066	67	67	54	54	98	90	85	100	D
65	152067	62	62	67	67	96	85	75	100	C
66	152068	82	82	72	72	79	90	100	100	C
67	152069	85	85	70	70	97	100	85	100	B
68	152070	79	79	81	81	87	90	100	100	D
69	152071	70	70	85	85	97	100	100	100	B
70	152073	50	50	60	60	98	90	80	100	E
71	152074	81	81	76	76	81	90	100	100	C
72	152075	76	76	56	56	98	95	90	100	C
73	152076	67	67	64	64	98	90	80	100	C
74	152077	86	86	84	84	87	100	100	100	D
75	152078	40	40	55	55	86	80	75	100	E
76	152079	65	65	75	75	81	90	100	100	E
77	152080	69	69	70	70	97	100	85	100	B
78	152081	35	35	50	50	84	90	75	100	U
79	152082	50	50	56	56	86	85	75	100	U
80	152083	60	60	72	72	77	100	100	100	U
81	152084	55	55	50	50	87	80	70	100	U
82	152101	53	53	42	42	83	90	80	100	U
83	152102	51	51	52	52	93	90	90	100	C
84	152103	62	62	60	60	86	90	85	100	C
85	152301	77	77	83	83	89	90	100	100	C
86	152302	78	78	74	74	98	75	85	100	B
87	152303	83	83	66	66	95	100	90	100	B
88	152304	81	81	89	89	94	100	100	100	E
89	152305	65	65	83	83	87	90	100	100	C

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C$ (7) grade in AU									
Total: 89	CIT					Assignments			AU
	CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	73	73	71	71	89	88	80	89	40
%	82.02%	82.02%	80.68%	80.68%	100%	98.88%	89.89%	100%	44.94%
Level Obtained	3	3	3	3	3	3	3	3	0

Attainment Calculation:**Survey:**

Survey	C101.1	C101.2	C101.3	C101.4	C101.5
Obtained %	94.2	96.25	94.82	92.78	92.44
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C101:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C101.1	3	3	3	0	1.2	3	1.56
C101.2	3	3	3	0	1.2	3	1.56
C101.3	3	3	3	0	1.2	3	1.56
C101.4	3	3	3	0	1.2	3	1.56
C101.5	3	3	3	0	1.2	3	1.56
C101							1.56

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C101.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C101.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C101.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C101.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C101.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C101 = \frac{C101.1 + C101.2 + C101.3 + C101.4 + C101.5}{5} = 1.56$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: MA6151 Mathematics -I: C102
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	152001	80	36	100	58	64	100	100	100	70
2	152002	100	100	50	68	60	100	100	100	50
3	152003	80	100	50	68	56	100	100	100	80
4	152004	60	50	20	62	12	100	100	100	50
5	152005	100	100	46	70	60	100	100	100	50
6	152006	100	50	96	68	64	100	100	100	70
7	152007	100	40	72	40	64	100	100	100	70
8	152008	100	100	50	66	40	100	100	100	70
9	152009	76	34	60	48	48	100	100	100	50
10	152011	80	68	44	70	52	100	100	100	80
11	152012	84	46	96	62	36	100	100	100	50
12	152013	80	64	32	66	56	100	100	100	60
13	152014	80	100	46	62	76	100	100	100	70
14	152015	76	30	56	42	52	100	100	100	50
15	152016	72	72	32	64	60	100	100	100	50
16	152017	96	84	50	54	64	100	100	100	70
17	152018	88	96	34	44	72	100	100	100	70
18	152019	60	100	42	66	56	100	100	100	80
19	152020	100	42	76	30	76	100	100	100	50
20	152021	44	80	18	36	88	100	100	100	70
21	152022	72	38	88	54	92	100	100	100	80
22	152023	92	38	96	54	60	100	100	100	50
23	152025	92	48	92	64	52	100	100	100	60
24	152026	100	80	48	64	32	100	100	100	80
25	152027	84	42	72	44	100	100	100	100	70
26	152028	72	28	100	64	64	100	100	100	50
27	152029	80	24	84	52	24	100	100	100	50
28	152030	100	36	88	68	64	100	100	100	70
29	152031	36	6	52	40	84	100	100	100	50
30	152032	68	56	30	56	20	100	100	100	50
31	152033	48	38	92	68	64	100	100	100	60
32	152034	80	80	42	64	44	100	100	100	60
33	152035	48	72	38	70	48	100	100	100	50
34	152036	92	18	60	36	80	100	100	100	0
35	152037	100	88	50	66	56	100	100	100	70
36	152038	84	40	92	62	56	100	100	100	60
37	152039	72	96	50	70	56	100	100	100	50
38	152040	80	36	100	58	64	100	100	100	60
39	152041	96	100	40	70	60	100	100	100	80
40	152042	76	84	48	62	44	100	100	100	80
41	152043	80	24	84	26	56	100	100	100	50
42	152044	100	100	48	58	60	100	100	100	90
43	152045	60	88	38	66	60	100	100	100	50
44	152046	76	68	32	66	32	100	100	100	60

45	152047	76	88	38	60	32	100	100	100	60
46	152048	72	50	16	34	8	100	100	100	50
47	152049	64	0	100	32	64	100	100	100	50
48	152050	20	56	0	30	0	100	100	100	50
49	152051	100	92	50	48	64	100	100	100	100
50	152052	96	80	28	62	60	100	100	100	50
51	152053	68	30	60	54	60	100	100	100	50
52	152054	44	64	28	56	56	100	100	100	70
53	152055	96	100	30	68	60	100	100	100	70
54	152056	80	32	A	22	88	100	100	100	50
55	152057	92	32	76	56	60	100	100	100	50
56	152058	64	100	42	60	56	100	100	100	60
57	152059	84	72	42	62	56	100	100	100	60
58	152060	100	100	50	70	60	100	100	100	80
59	152061	92	40	84	66	60	100	100	100	70
60	152062	44	84	10	46	68	100	100	100	60
61	152063	92	48	96	66	80	100	100	100	70
62	152064	96	40	76	62	56	100	100	100	50
63	152065	100	92	38	68	44	100	100	100	80
64	152066	84	24	60	60	20	100	100	100	50
65	152067	100	48	100	68	64	100	100	100	70
66	152068	88	64	44	66	16	100	100	100	70
67	152069	48	38	96	44	84	100	100	100	70
68	152070	76	56	46	58	32	100	100	100	50
69	152071	100	32	60	48	60	100	100	100	70
70	152073	64	38	68	54	44	100	100	100	50
71	152074	72	100	50	70	48	100	100	100	70
72	152075	100	36	64	60	52	100	100	100	50
73	152076	100	36	60	28	56	100	100	100	50
74	152077	92	84	40	70	56	100	100	100	70
75	152078	60	36	64	38	48	100	100	100	50
76	152079	48	84	28	54	56	100	100	100	70
77	152080	76	14	52	50	48	100	100	100	50
78	152081	100	0	A	28	44	100	100	100	0
79	152082	44	18	52	36	56	100	100	100	50
80	152083	36	8	12	26	24	100	100	100	0
81	152084	68	30	64	42	40	100	100	100	50
82	152101	100	42	76	30	76	100	100	100	50
83	152102	88	8	88	36	44	100	100	100	50
84	152103	68	20	4	38	72	100	100	100	50
85	152301	96	92	40	50	60	100	100	100	70
86	152302	56	24	80	38	76	100	100	100	50
87	152303	60	38	60	38	72	100	100	100	50
88	152304	60	88	22	58	56	100	100	100	50
89	152305	80	16	10	54	28	100	100	100	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C(7)$ grade in AU									
Total: 89	CIT					Assignments			AU
	CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	77	38	37	42	42	89	89	89	34
%	86.52%	42.7%	42.53%	47.19%	47.19%	100%	100%	100%	38.2%
Level Obtained	3	0	0	0	0	3	3	3	0

Attainment Calculation:

Survey:

Survey	C102.1	C102.2	C102.3	C102.4	C102.5
Obtained %	97.36	96.23	95.34	94.17	94.49
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C102:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C102.1	3	3	3	0	1.2	3	1.56
C102.2	0	3	0.9	0	0.36	3	0.89
C102.3	0	3	0.9	0	0.36	3	0.89
C102.4	0	3	0.9	0	0.36	3	0.89
C102.5	0	3	0.9	0	0.36	3	0.89
C102							1.02

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C102.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C102.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C102.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C102.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C102.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C102 = \frac{C102.1 + C102.2 + C102.3 + C102.4 + C102.5}{5} = 1.02$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: PH6151 Engineering Physics -I: C103
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	152001	94	80	88	68	96	90.5	91.5	60	80
2	152002	89	91	95	91	90	100	100	70	90
3	152003	74	78	A	A	82	100	100	90	70
4	152004	70	39	67	48	66	75	85	90	50
5	152005	82	91	88	83	90	100	100	100	80
6	152006	90	100	98	93	92	98	89	100	80
7	152007	100	86	83	63	84	85	92	60	70
8	152008	80	74	90	19	86	85	100	100	90
9	152009	70	82	60	40	96	96.5	91.5	60	70
10	152011	83	80	67	62	76	100	100	100	60
11	152012	80	70	91	71	52	91	87.5	60	70
12	152013	72	52	78	45	70	85	85	70	50
13	152014	76	93	79	71	78	95	100	70	90
14	152015	60	50	68	48	68	90	94	60	60
15	152016	67	37	81	43	82	100	85	90	50
16	152017	69	76	45	71	82	75	95	90	50
17	152018	44	65	62	21	72	85	85	90	50
18	152019	65	76	83	62	76	100	85	70	80
19	152020	48	52	69	49	76	88	91	60	50
20	152021	67	74	79	38	80	90	85	90	50
21	152022	70	70	60	40	86	89	94.5	60	70
22	152023	78	80	93	73	50	93.5	96	60	80
23	152025	88	86	89	69	96	95	90	60	70
24	152026	85	46	79	55	90	90	85	70	70
25	152027	72	84	98	78	88	96	93.5	60	70
26	152028	60	68	96	76	94	93.5	93.5	66	70
27	152029	88	80	A	A	60	97	90	60	50
28	152030	88	80	94	74	94	89	94	100	80
29	152031	60	74	82	63	58	90	94	63	50
30	152032	67	74	45	48	40	100	70	90	50
31	152033	80	74	82	62	72	95.5	90	100	70
32	152034	72	96	72	89	66	90	85	90	70
33	152035	87	61	78	38	52	85	85	90	50
34	152036	88	80	66	46	64	92	90	63	50
35	152037	94	76	85	41	90	95	85	70	70
36	152038	92	84	98	96	96	96	92	60	80
37	152039	56	59	71	33	90	85	70	90	50
38	152040	84	72	88	68	52	91	90.5	60	70
39	152041	76	85	91	57	82	100	100	100	70
40	152042	87	78	69	52	82	90	95	90	60
41	152043	51	50	36	16	30	93	90	60	50
42	152044	69	80	29	55	44	85	100	90	50
43	152045	50	80	93	52	72	100	100	100	80
44	152046	74	87	66	43	64	85	70	90	60

45	152047	80	76	59	14	72	95	100	90	50
46	152048	31	44	45	29	46	70	70	90	0
47	152049	28	20	75	55	92	84.5	94	60	50
48	152050	48	61	34	38	44	90	95	90	50
49	152051	85	74	93	67	70	80	80	70	70
50	152052	67	76	69	33	88	90	100	100	50
51	152053	50	50	75	55	60	87.5	90	60	70
52	152054	21	54	52	21	42	95	100	90	50
53	152055	83	80	79	67	90	100	100	100	80
54	152056	60	60	65	45	88	90	90.5	60	70
55	152057	84	90	69	49	96	91.5	86	62	50
56	152058	70	74	90	19	86	95	100	100	80
57	152059	87	83	86	29	84	90	85	90	70
58	152060	94	91	95	95	90	100	100	100	100
59	152061	98	96	95	75	64	93.5	89.5	100	80
60	152062	35	61	71	52	60	85	85	70	50
61	152063	94	90	99	79	78	94	87.5	61	70
62	152064	74	60	91	71	92	88	91.5	61	60
63	152065	65	89	72	74	78	100	95	70	80
64	152066	90	80	93	73	80	88	91	60	80
65	152067	80	88	98	78	64	96	90.5	100	70
66	152068	77	94	62	86	46	70	70	70	70
67	152069	96	94	99	79	48	97.5	92	100	80
68	152070	76	54	69	24	68	85	70	70	50
69	152071	84	80	91	71	98	93.5	84	60	70
70	152073	38	40	71	51	80	86.5	92.5	60	60
71	152074	82	94	88	43	86	100	100	100	80
72	152075	74	80	74	54	80	93	93.5	60	70
73	152076	74	80	81	61	86	97.5	90	60	70
74	152077	89	89	88	88	74	100	100	100	80
75	152078	52	48	60	40	64	92	90.5	60	50
76	152079	33	37	76	81	78	85	70	70	60
77	152080	82	70	73	53	96	97	92.5	100	70
78	152081	50	26	67	47	92	93.5	91	60	50
79	152082	48	52	76	56	24	97.5	92.5	60	70
80	152083	9	35	24	14	34	85	70	70	0
81	152084	52	48	59	41	8	93	91.5	60	50
82	152101	38	48	44	24	50	90.5	90	60	50
83	152102	68	60	54	34	52	92	91	63	50
84	152103	42	70	39	19	50	92	87.5	60	50
85	152301	74	70	83	17	90	85	70	70	50
86	152302	72	84	79	59	90	91.5	92	60	80
87	152303	60	68	81	61	96	86	85	60	70
88	152304	82	46	66	64	58	85	70	70	50
89	152305	83	48	67	43	56	85	80	70	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C(7)$ grade in AU									
Total: 89	CIT					Assignments			AU
	CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	69	66	74	37	68	85	79	36	48
%	77.53%	74.16%	85.06%	42.53%	76.4%	95.51%	88.76%	40.45%	53.93%
Level Obtained	2	2	3	0	2	3	3	0	0

Attainment Calculation:

Survey:

Survey	C103.1	C103.2	C103.3	C103.4	C103.5
Obtained %	95.41	93.93	94.51	95.36	94.49
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C103:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C103.1	2	3	2.3	0	0.92	3	1.34
C103.2	2	3	2.3	0	0.92	3	1.34
C103.3	3	3	3	0	1.2	3	1.56
C103.4	0	3	0.9	0	0.36	3	0.89
C103.5	2	0	1.4	0	0.56	3	1.05
C103							1.24

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C103.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C103.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C103.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C103.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C103.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C103 = \frac{C103.1 + C103.2 + C103.3 + C103.4 + C103.5}{5} = 1.24$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: CY6151 Engineering Chemistry -I: C104
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment		Seminar	AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	S1	
1	152060	100	100	100	100	100	100	100	100	100
2	152077	100	84	56	96	100	100	100	100	80
3	152044	72	76	74	68	100	100	90	100	70
4	152037	100	62	76	98	100	100	100	100	90
5	152305	54	56	44	28	100	90	90	90	70
6	152021	68	64	66	78	90	90	100	90	60
7	152050	68	50	24	60	100	90	100	90	50
8	152032	100	58	68	56	100	90	100	90	70
9	152016	100	60	54	96	100	90	100	90	50
10	152051	68	88	84	92	100	90	100	90	80
11	152019	92	82	58	82	100	90	100	90	80
12	152062	68	56	64	88	100	100	100	100	70
13	152048	60	50	26	32	100	90	80	90	0
14	152079	60	44	78	72	90	80	100	80	80
15	152013	64	64	46	72	100	80	100	80	80
16	152070	64	56	46	A	100	90	100	90	70
17	152011	92	78	46	76	100	90	100	90	90
18	152004	66	50	62	10	100	90	100	90	0
19	152039	96	70	48	34	100	90	100	90	70
20	152083	34	28	24	34	100	100	0	100	0
21	152017	88	50	50	62	100	100	0	100	60
22	152046	84	56	72	86	100	100	0	100	80
23	152059	64	68	52	84	100	100	100	100	70
24	152026	84	66	60	98	100	100	100	100	80
25	152052	68	74	80	98	100	80	100	80	70
26	152304	76	64	48	80	100	80	100	80	60
27	152047	60	64	48	74	100	100	100	100	80
28	152003	100	A	A	96	100	100	100	100	90
29	152045	100	64	80	98	100	100	100	100	90
30	152042	100	92	48	92	100	100	100	100	50
31	152065	96	58	64	60	100	90	100	90	70
32	152035	64	42	54	80	100	100	100	100	60
33	152074	92	90	84	94	100	100	100	100	80
34	152041	100	80	58	88	100	100	100	100	80
35	152034	68	72	60	72	100	100	100	100	50
36	152014	100	90	50	100	100	100	100	100	80
37	152058	100	68	86	88	100	100	100	100	70
38	152008	72	92	66	88	100	90	100	90	70
39	152054	44	58	42	28	100	100	100	100	70
40	152002	100	94	88	98	100	100	100	100	80
41	152005	98	84	76	92	100	100	100	100	70
42	152018	44	76	66	64	100	100	100	100	60
43	152301	92	84	78	96	100	90	100	90	80
44	152068	100	52	74	82	100	90	100	90	70

45	152055	100	64	72	84	90	100	100	100	80
46	152033	98	64	62	90	100	100	100	100	60
47	152084	40	56	56	58	80	100	60	100	70
48	152007	76	90	60	64	80	100	60	100	60
49	152064	50	90	44	52	100	100	100	100	70
50	152057	78	80	48	78	100	0	40	0	70
51	152102	52	60	60	52	100	100	40	100	50
52	152076	74	64	18	84	100	100	0	100	60
53	152071	100	80	90	74	100	100	100	100	80
54	152303	48	44	44	68	100	0	0	0	70
55	152040	62	40	90	70	100	100	100	100	70
56	152001	88	70	82	86	100	100	0	100	70
57	152049	70	56	42	50	0	0	80	0	50
58	152030	84	72	84	76	100	100	80	100	90
59	152006	100	74	88	100	100	100	100	100	90
60	152103	62	52	76	50	100	0	0	0	60
61	152078	38	20	32	52	60	100	80	100	50
62	152009	78	46	54	50	90	100	100	100	70
63	152015	76	72	16	28	80	100	80	100	90
64	152061	92	64	70	68	100	100	100	100	100
65	152302	80	60	52	96	100	100	100	100	90
66	152053	86	44	54	62	80	100	60	100	60
67	152043	40	34	30	24	80	100	0	100	0
68	152066	68	56	62	82	85	100	0	100	70
69	152029	88	98	58	60	90	100	100	100	50
70	152056	68	68	56	70	85	100	40	100	70
71	152075	50	44	56	84	90	100	100	100	70
72	152080	46	62	62	56	90	100	100	100	80
73	152022	86	56	70	58	75	100	80	100	80
74	152063	52	96	94	100	90	100	100	100	80
75	152036	94	58	92	36	60	100	100	100	70
76	152069	100	68	84	86	90	100	100	100	80
77	152028	74	66	74	74	90	100	100	100	80
78	152031	66	96	74	60	50	100	0	100	70
79	152023	86	62	92	94	90	100	100	100	80
80	152027	98	84	78	92	90	100	80	100	80
81	152073	58	66	48	38	90	100	60	100	50
82	152082	20	72	58	42	85	100	80	100	70
83	152020	82	74	68	74	90	100	0	100	50
84	152101	44	70	76	24	0	100	0	100	70
85	152081	36	84	54	50	90	100	0	100	50
86	152012	64	58	56	56	90	100	40	100	80
87	152067	92	96	94	86	90	100	100	100	90
88	152038	90	96	98	82	65	100	0	100	80
89	152025	96	96	82	96	100	90	100	90	80

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C(7)$ grade in AU									
Total: 89	CIT					Assignments		Seminar	AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	S1	
Count	72	59	49	64	86	85	67	85	64
%	80.9%	67.05%	55.68%	72.73%	96.63%	95.51%	75.28%	95.51%	71.91%
Level Obtained	3	1	0	2	3	3	2	3	2

Attainment Calculation:

Survey:

Survey	C104.1	C104.2	C104.3	C104.4	C104.5
Obtained %	94.45	92.99	91.52	90.41	91.23
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C104:

Course	Internal Test	Assign.	Seminar	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C104.1	3	-	-	3	2	2.4	3	2.52
C104.2	1	3	-	1.6	2	1.84	3	2.07
C104.3	0	-	-	0	2	1.2	3	1.56
C104.4	2	2	-	2	2	2	3	2.2
C104.5	3	-	3	3	2	2.4	3	2.52
C104								2.17

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C104.1	AU Exam	[1*Internal Test]
C104.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C104.3	AU Exam	[1*Internal Test]
C104.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C104.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C104 = \frac{C104.1 + C104.2 + C104.3 + C104.4 + C104.5}{5} = 2.17$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE6151 Computer Programming: C105
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO1	CO5	CO2	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	152060	96	100	95	94	95	100	100	90	100	90	90	80	80
2	152077	76	92	71	94	95	100	100	90	100	80	80	90	70
3	152044	80	60	62	44	62	100	90	70	80	70	60	70	50
4	152037	98	54	81	75	95	100	90	90	80	80	80	80	90
5	152305	68	36	52	57	57	100	100	90	80	70	70	80	50
6	152021	82	62	79	75	86	100	90	70	90	70	70	80	50
7	152032	36	44	67	69	57	70	80	90	80	50	70	90	50
8	152050	72	32	36	69	14	90	90	70	70	70	80	70	0
9	152016	A	A	76	69	71	100	90	80	80	70	80	90	50
10	152051	88	48	93	100	95	80	70	90	100	90	90	80	80
11	152019	82	86	86	88	95	100	90	90	80	A	90	90	80
12	152062	44	56	64	69	76	90	100	80	80	70	70	80	50
13	152048	74	62	60	44	14	80	80	70	100	70	70	80	0
14	152079	72	40	76	57	52	80	90	80	90	A	70	80	50
15	152013	88	28	71	75	86	80	90	70	80	60	70	70	50
16	152070	94	70	71	63	57	50	80	70	100	70	80	90	50
17	152011	82	58	71	94	81	100	100	80	90	80	90	80	70
18	152004	64	56	67	32	33	100	90	70	90	70	70	80	50
19	152039	60	92	88	57	86	90	100	90	90	80	A	90	50
20	152083	52	32	45	38	5	90	70	70	90	60	70	70	0
21	152017	82	50	81	100	71	100	90	90	90	70	A	80	60
22	152046	64	64	64	63	62	80	80	70	90	70	80	80	50
23	152059	86	50	86	94	86	100	90	80	90	70	A	70	50
24	152026	100	80	90	88	95	100	90	80	90	80	80	90	80
25	152052	84	80	88	82	95	80	90	90	90	80	80	90	70
26	152304	72	84	79	75	86	80	80	80	80	70	70	70	70
27	152047	48	28	64	63	81	80	70	70	80	60	90	70	60
28	152003	98	90	A	A	95	100	100	90	90	90	90	90	80
29	152045	68	80	88	100	95	100	100	80	A	80	90	80	50
30	152042	92	92	90	100	86	100	100	90	90	90	80	90	70
31	152065	92	76	74	100	90	100	100	80	90	80	80	80	50
32	152035	72	68	74	50	62	100	90	80	90	80	90	80	50
33	152074	96	100	81	94	95	100	100	90	90	90	80	90	80
34	152041	84	84	88	94	86	90	90	80	90	80	80	80	70
35	152034	85	34	50	94	86	90	80	80	90	80	80	80	60
36	152014	84	84	86	94	90	100	90	90	90	80	90	80	70
37	152058	84	72	83	88	86	80	100	90	90	80	90	90	50
38	152008	82	90	90	100	90	100	100	80	80	A	80	80	90
39	152054	48	24	62	63	33	80	100	70	70	60	70	80	50
40	152002	100	84	93	100	95	100	100	90	90	A	90	90	70
41	152005	84	96	86	88	95	100	100	90	90	A	90	90	50
42	152018	92	88	90	94	86	100	100	90	90	90	90	90	90
43	152301	96	68	62	82	86	70	100	70	70	A	80	70	80
44	152068	93	62	81	88	76	80	90	90	90	80	A	90	60

45	152055	84	92	86	100	90	100	100	90	90	70	80	70	70
46	152033	92	76	78	62	80	100	90	70	90	80	80	90	50
47	152084	80	38	85	100	60	100	80	70	70	70	80	80	60
48	152007	93	76	80	100	68	100	70	60	70	90	70	60	60
49	152064	80	56	71	75	88	100	70	80	80	90	80	70	50
50	152057	68	60	64	62	84	100	70	60	90	70	80	90	50
51	152102	66	68	78	50	88	100	80	60	70	70	90	60	0
52	152071	88	18	66	75	84	100	70	90	90	80	70	90	80
53	152076	76	15	80	37	64	100	90	80	80	80	80	70	50
54	152303	24	72	64	100	92	100	80	60	60	90	80	80	50
55	152040	84	56	78	62	76	100	80	70	70	80	90	60	50
56	152001	100	92	83	75	88	100	70	80	60	90	80	70	80
57	152049	88	16	45	75	88	100	80	80	90	70	70	70	50
58	152030	84	64	73	62	84	100	80	70	70	90	70	80	50
59	152006	100	84	85	50	88	100	90	90	80	90	80	90	90
60	152103	12	64	54	62	80	100	80	60	80	A	60	90	50
61	152078	92	12	80	50	96	100	70	80	70	70	90	70	50
62	152009	64	100	61	75	68	100	80	90	60	70	60	90	60
63	152015	76	72	61	56	57	100	50	70	70	80	70	70	50
64	152061	80	80	88	100	88	100	70	80	70	70	70	80	80
65	152302	88	48	83	75	96	100	80	70	70	90	90	70	50
66	152053	80	44	73	62	52	100	70	80	80	70	70	80	50
67	152043	16	60	69	50	68	90	80	60	90	70	70	60	50
68	152066	84	88	83	75	76	100	80	90	100	70	60	70	70
69	152029	92	96	88	100	80	100	90	60	70	80	90	70	80
70	152056	88	84	78	87	84	100	70	60	60	70	70	60	50
71	152075	68	68	83	75	80	100	80	80	60	70	90	70	60
72	152080	88	40	83	87	84	100	90	80	60	70	80	70	50
73	152022	84	88	80	62	84	100	80	80	70	90	80	90	60
74	152063	88	96	59	25	84	100	90	90	80	90	90	90	70
75	152036	92	60	92	75	60	100	80	70	90	90	80	80	70
76	152069	84	96	92	100	95	100	80	70	A	70	90	80	90
77	152028	88	96	83	100	84	100	70	80	80	70	90	80	80
78	152031	80	52	80	100	76	100	60	70	80	90	60	70	50
79	152027	76	96	85	75	92	100	80	70	90	70	70	90	70
80	152023	36	68	57	100	80	100	70	70	90	80	90	70	60
81	152073	60	96	80	100	72	100	70	80	70	60	70	80	50
82	152082	84	76	80	87	80	100	80	80	80	90	60	70	50
83	152020	60	80	76	87	72	100	50	80	90	80	80	70	50
84	152101	76	52	73	0	64	100	70	70	100	60	90	80	50
85	152081	68	36	52	25	68	100	70	70	60	100	80	90	50
86	152012	84	56	85	87	80	100	80	70	60	90	70	80	50
87	152067	23	68	90	87	80	100	80	80	60	80	90	80	80
88	152038	88	96	92	100	96	100	80	90	90	90	70	70	70
89	152025	88	84	80	87	80	100	80	80	70	70	80	60	60

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C(7)$ grade in AU													
Total: 89	CIT					Assignments			Seminar		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO1	CO5	CO2	CO4	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
Count	78	58	79	71	78	86	69	55	78	75	79	83	32
%	88.64 %	65.91 %	89.77 %	80.68 %	87.64 %	96.63 %	77.53 %	61.8 %	89.66 %	91.46 %	92.94 %	93.26 %	35.96 %
Level Obtain ed	3	1	3	3	3	3	2	1	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C105.1	C105.2	C105.3	C105.4	C105.5
Obtained %	96.19	94.15	94.17	93.87	92.96
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C105:

Course	Internal Test	Assign.	Seminar	Quiz	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C105.1	3	3	3	-	3	0	1.2	3	1.56
C105.2	1	2	-	3	1.4	0	0.56	3	1.05
C105.3	3	1	-	-	2.4	0	0.96	3	1.37
C105.4	3	-	-	3	3	0	1.2	3	1.56
C105.5	3	-	3	-	3	0	1.2	3	1.56
C105									1.42

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C105.1	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminar]
C105.2	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C105.3	AU Exam	[7*Internal Test + 0.3*Assignment]
C105.4	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C105.5	AU Exam	[0.8*Internal Test + 0.2*Seminar]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C105 = \frac{C105.1 + C105.2 + C105.3 + C105.4 + C105.5}{5} = 1.42$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE6152 Engineering Graphics: C106
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	152033	68	68	70	70	88	100	100	100	70
2	152084	70	70	66	66	88	100	100	100	70
3	152007	82	82	68	68	92	100	100	100	90
4	152064	80	80	66	66	8	100	100	100	60
5	152057	72	72	78	78	56	100	100	100	90
6	152102	80	80	62	62	96	100	100	100	70
7	152076	80	80	A	A	88	100	100	100	90
8	152071	74	74	76	76	92	100	100	100	0
9	152303	54	54	76	76	56	100	100	100	80
10	152040	80	80	84	84	96	100	100	100	80
11	152001	82	82	70	70	44	100	100	100	70
12	152049	50	50	56	56	72	100	100	100	70
13	152030	86	86	76	76	60	100	100	100	70
14	152006	90	90	98	98	56	100	100	100	70
15	152103	16	16	60	60	A	100	100	100	80
16	152078	76	76	88	88	A	100	100	100	90
17	152009	78	78	72	72	92	100	100	100	80
18	152015	60	60	78	78	80	100	100	100	70
19	152061	90	90	82	82	92	100	100	100	70
20	152302	64	64	A	A	92	100	100	100	80
21	152053	60	60	62	62	40	100	100	100	70
22	152043	50	50	60	60	52	100	100	100	90
23	152066	84	84	92	92	80	100	100	100	70
24	152029	80	80	84	84	72	100	100	100	50
25	152056	68	68	56	56	A	100	100	100	70
26	152075	80	80	80	80	96	100	100	100	100
27	152080	82	82	82	82	88	100	100	100	50
28	152022	76	76	56	56	56	100	100	100	70
29	152063	90	90	76	76	88	100	100	100	70
30	152036	86	86	76	76	96	100	100	100	60
31	152069	90	90	A	A	88	100	100	100	90
32	152028	80	80	70	70	82	100	100	100	80
33	152031	70	70	72	72	56	100	100	100	70
34	152023	82	82	88	88	76	100	100	100	70
35	152027	88	88	58	58	96	100	100	100	60
36	152073	74	74	72	72	80	100	100	100	70
37	152082	74	74	76	76	60	100	100	100	50
38	152020	66	66	74	74	80	100	100	100	70
39	152101	32	32	80	80	60	100	100	100	70
40	152081	56	56	62	62	96	100	100	100	100
41	152012	86	86	72	72	92	100	100	100	80
42	152067	98	98	A	A	96	100	100	100	80
43	152038	90	90	78	78	76	100	100	100	90
44	152025	68	68	76	76	88	100	100	100	100

45	152060	100	100	96	96	98	100	100	100	80
46	152077	74	74	98	98	64	100	100	100	80
47	152044	94	94	80	80	88	100	100	100	50
48	152037	80	80	98	98	88	100	100	100	90
49	152305	24	24	94	94	32	100	100	100	50
50	152021	88	88	88	88	52	100	100	100	60
51	152032	62	62	88	88	88	100	100	100	50
52	152050	50	50	56	56	72	100	100	100	80
53	152016	50	50	90	90	72	100	100	100	60
54	152051	78	78	94	94	64	100	100	100	70
55	152019	94	94	96	96	60	100	100	100	80
56	152062	94	94	86	86	84	100	100	100	80
57	152048	28	28	84	84	88	100	100	100	70
58	152079	62	62	92	92	84	100	100	100	80
59	152013	80	80	86	86	68	100	100	100	70
60	152070	56	56	50	50	A	100	100	100	60
61	152011	94	94	92	92	60	100	100	100	70
62	152004	72	72	84	84	52	100	100	100	50
63	152039	70	70	90	90	84	100	100	100	50
64	152083	68	68	94	94	84	100	100	100	0
65	152017	66	66	92	92	88	100	100	100	90
66	152046	50	50	90	90	92	100	100	100	80
67	152059	80	80	50	50	52	100	100	100	70
68	152026	52	52	76	76	64	100	100	100	70
69	152052	54	54	98	98	72	100	100	100	90
70	152304	50	50	78	78	72	100	100	100	70
71	152047	70	70	96	96	84	100	100	100	80
72	152003	84	84	A	A	88	100	100	100	80
73	152045	84	84	94	94	88	100	100	100	80
74	152042	92	92	92	92	64	100	100	100	90
75	152065	94	94	92	92	96	100	100	100	80
76	152035	76	76	86	86	80	100	100	100	60
77	152074	90	90	88	88	88	100	100	100	70
78	152041	74	74	60	60	88	100	100	100	70
79	152034	62	62	86	86	84	100	100	100	70
80	152014	92	92	78	78	84	100	100	100	90
81	152058	84	84	84	84	84	100	100	100	60
82	152008	86	86	68	68	60	100	100	100	90
83	152054	56	56	92	92	72	100	100	100	70
84	152002	100	100	84	84	92	100	100	100	90
85	152005	88	88	84	84	84	100	100	100	80
86	152018	92	92	88	88	64	100	100	100	80
87	152301	62	62	76	76	68	100	100	100	80
88	152068	66	66	82	82	84	100	100	100	70
89	152055	94	94	78	78	88	100	100	100	70

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C(7)$ grade in AU									
Total = 89	CIT					Assignments			AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	73	73	77	77	72	89	89	89	71
%	82.02%	82.02%	90.59%	90.59%	83.72%	100%	100%	100%	80%
Level Obtained	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C106.1	C106.2	C106.3	C106.4	C106.5
Obtained %	92.62	92.08	90.34	88.94	89.25
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C106:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C106.1	3	3	3	3	3	3	3
C106.2	3	3	3	3	3	3	3
C106.3	3	3	3	3	3	3	3
C106.4	3	-	3	3	3	3	3
C106.5	3	-	3	3	3	3	3
C106							3

Formula for Attainment Calculations:

CO	Attainment = $(0.6*AU + 0.4*IA)$	
	External Assessment (AU)	Internal Assessment (IA)
C106.1	AU Exam	$[0.7*Internal\ Test + 0.3*Assignment]$
C106.2	AU Exam	$[0.7*Internal\ Test + 0.3*Assignment]$
C106.3	AU Exam	$[0.7*Internal\ Test + 0.3*Assignment]$
C106.4	AU Exam	$[1*Internal\ Test]$
C106.5	AU Exam	$[1*Internal\ Test]$

Overall Attainment: $[0.8*DI + 0.2*Survey]$

$$C106 = \frac{C106.1 + C106.2 + C106.3 + C106.4 + C106.5}{5} = 3$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE6161 Computer Practices Lab: C107
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	100	100	95	100	100	100	100	100	90	100	75	90	100	90	85	S
2	152077	97	100	90	97	95	90	97	100	80	97	83	82	97	85	80	S
3	152044	91	100	85	91	100	85	91	100	80	91	75	82	91	85	65	A
4	152037	94	100	80	94	100	80	94	100	80	94	80	82	94	95	75	A
5	152305	86	95	80	86	100	70	86	100	70	86	88	80	86	80	65	B
6	152021	100	100	90	100	100	95	100	100	80	100	78	76	100	90	75	S
7	152032	97	100	80	97	100	85	97	100	70	97	85	72	97	80	60	A
8	152050	82	80	75	82	95	75	82	100	70	82	85	66	82	80	65	B
9	152016	92	90	85	92	100	70	92	100	80	92	78	76	92	75	70	A
10	152051	96	90	85	96	100	100	96	100	90	96	80	86	96	85	90	S
11	152019	100	100	95	100	100	100	100	100	90	100	80	86	100	85	80	S
12	152062	82	90	85	82	95	80	82	100	70	82	83	90	82	88	55	A
13	152048	81	80	90	81	95	90	81	100	80	81	83	74	81	80	65	A
14	152079	85	85	90	85	100	85	85	100	70	85	88	68	85	75	65	A
15	152013	88	80	85	88	100	70	88	90	70	88	85	72	88	85	65	B
16	152070	89	85	90	89	90	75	89	80	70	89	85	70	89	80	65	S
17	152011	90	95	95	90	100	95	90	100	70	90	80	78	90	85	75	A
18	152004	94	95	90	94	100	90	94	100	80	94	85	72	94	75	70	B
19	152039	92	95	90	92	100	95	92	100	90	92	85	80	92	75	75	A
20	152083	95	95	90	95	100	85	95	100	70	95	75	64	95	85	65	B
21	152017	95	100	90	95	100	95	95	100	80	95	80	78	95	70	65	S
22	152046	89	100	90	89	100	100	89	100	80	89	83	80	89	85	75	A
23	152059	97	85	85	97	100	85	97	100	70	97	73	78	97	85	70	S
24	152026	99	100	95	99	100	100	99	100	90	99	88	88	99	85	80	S
25	152052	92	85	95	92	100	95	92	100	80	92	98	78	92	95	75	S
26	152304	96	85	90	96	95	75	96	100	70	96	78	74	96	85	70	S
27	152047	94	85	85	94	90	75	94	100	70	94	73	74	94	85	70	A
28	152003	100	100	95	100	100	95	100	100	90	100	90	86	100	95	80	S
29	152045	100	95	85	100	100	85	100	100	70	100	83	78	100	90	75	S
30	152042	98	100	95	98	100	100	98	100	90	98	88	88	98	85	85	S
31	152065	100	100	90	100	100	85	100	100	70	100	80	74	100	85	75	S
32	152035	100	100	95	100	100	95	100	100	90	100	80	82	100	80	85	S
33	152074	100	100	90	100	100	95	100	100	100	100	90	84	100	95	80	S
34	152041	98	100	90	98	100	95	98	100	90	98	80	78	98	85	75	A
35	152034	98	100	90	98	95	85	98	100	70	98	78	74	98	75	65	A
36	152014	100	100	85	100	100	90	100	100	80	100	83	78	100	85	70	S
37	152058	99	100	85	99	100	85	99	100	70	99	83	74	99	95	70	S
38	152008	100	100	85	100	95	80	100	100	70	100	80	74	100	80	75	S
39	152054	97	90	80	97	100	75	97	100	70	97	80	70	97	90	65	A
40	152002	100	100	85	100	100	100	100	100	90	100	85	82	100	90	85	S
41	152005	98	100	95	98	95	95	98	100	80	98	80	84	98	85	85	S
42	152018	100	95	100	100	95	95	100	100	100	100	80	88	100	80	85	S
43	152301	97	95	90	97	95	70	97	100	80	97	70	72	97	70	75	S
44	152068	100	90	85	100	100	95	100	100	90	100	85	78	100	85	80	S

45	152055	98	100	A	A	100	85	98	90	80	98	70	78	98	85	70	S
46	152033	98	100	94	94	100	55	98	90	40	98	90	85	98	100	80	S
47	152084	93	85	92	92	95	95	93	100	90	93	85	77	93	80	60	A
48	152007	97	100	92	92	100	65	97	100	70	97	85	75	97	90	80	B
49	152064	95	100	86	86	95	55	95	100	50	95	85	70	95	80	60	B
50	152057	83	100	88	88	95	60	83	100	80	83	83	65	83	90	70	A
51	152102	87	100	60	60	100	75	87	100	80	87	83	52	87	80	70	B
52	152071	100	100	86	86	95	75	100	100	60	100	85	80	100	80	70	S
53	152076	100	100	78	78	100	70	100	80	70	100	85	67	100	80	70	A
54	152303	98	100	84	84	90	75	98	90	80	98	88	55	98	80	80	S
55	152040	100	100	68	68	100	75	100	100	60	100	88	60	100	80	70	S
56	152001	98	100	92	92	100	65	98	100	50	98	88	70	98	90	80	A
57	152049	92	80	84	84	90	65	92	100	60	92	83	72	92	80	70	B
58	152030	95	100	84	84	95	70	95	100	60	95	90	55	95	100	70	A
59	152006	100	95	88	88	100	75	100	100	80	100	88	67	100	90	80	S
60	152103	100	90	76	76	80	65	100	100	90	100	88	85	100	90	70	S
61	152078	88	95	82	82	95	70	88	100	90	88	85	67	88	80	50	B
62	152009	88	100	78	78	95	75	88	100	80	88	88	60	88	80	50	B
63	152015	92	95	78	78	100	70	92	100	90	92	83	52	92	80	70	B
64	152061	97	100	78	78	100	70	97	100	60	97	78	65	97	90	60	A
65	152302	95	100	78	78	100	75	95	100	60	95	83	67	95	70	50	B
66	152053	93	100	78	78	100	70	93	100	80	93	85	75	93	86	70	B
67	152043	92	100	78	78	100	75	92	100	60	92	78	65	92	90	70	B
68	152066	98	100	78	78	100	75	98	100	60	98	88	75	98	90	60	A
69	152029	100	100	78	78	100	70	100	100	80	100	83	62	100	80	40	S
70	152056	97	100	78	78	95	80	97	100	60	97	83	72	97	80	50	B
71	152075	95	100	78	78	100	65	95	100	80	95	90	72	95	80	60	A
72	152080	92	100	A	A	100	75	92	100	50	92	90	60	92	90	50	A
73	152022	97	100	94	94	100	85	97	100	60	97	88	70	97	80	60	A
74	152063	97	100	92	92	100	85	97	100	70	97	88	67	97	70	60	S
75	152036	98	100	92	92	100	55	98	100	80	98	85	77	98	80	60	S
76	152069	98	100	86	86	100	65	98	100	50	98	88	77	98	80	80	S
77	152028	100	100	88	88	100	70	100	100	60	100	80	75	100	90	80	S
78	152031	100	100	60	60	95	55	100	100	70	100	80	77	100	90	60	S
79	152027	100	100	86	86	100	55	100	100	80	100	85	67	100	80	50	S
80	152023	98	100	78	78	100	60	98	100	80	98	85	75	98	90	60	S
81	152073	88	95	84	84	100	80	88	100	60	88	85	72	88	80	60	A
82	152082	92	100	68	68	100	75	92	100	70	92	83	67	92	80	50	B
83	152020	97	95	92	92	100	75	97	100	60	97	85	65	97	80	40	A
84	152101	90	95	84	84	80	65	90	70	100	90	80	72	90	70	60	A
85	152081	90	95	84	84	100	70	90	100	80	90	83	80	90	90	70	A
86	152012	100	100	88	88	100	55	100	100	70	100	85	70	100	80	80	S
87	152067	100	100	76	76	100	65	100	100	80	100	95	57	100	90	80	A
88	152038	98	100	82	82	100	85	98	100	60	98	83	60	98	70	60	S
89	152025	95	100	78	78	100	85	95	100	70	95	83	60	95	90	60	A

Total = 89	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
Count	89	89	67	68	89	43	89	89	45	89	89	22	89	89	22	72
%	100	100	75.28	76.4	100	48.31	100	100	50.56	100	100	24.72	100	100	24.72	80.9
Level Obtained	3	3	2	2	3	0	3	3	0	3	3	0	3	3	0	3
% of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record and $\geq A(9)$ grade in AU																

Attainment Calculation:

Survey:

Survey	C107.1	C107.2	C107.3	C107.4	C107.5
Obtained %	95.36	94.215	93.61	93.02	93.61
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C107:

Course	Internal Test(M)	V	R	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C107.1	3	3	2	2.8	3	2.92	3	2.936
C107.2	2	3	0	1.8	3	2.52	3	2.616
C107.3	3	3	0	2.4	3	2.76	3	2.808
C107.4	3	3	0	2.4	3	2.76	3	2.808
C107.5	3	3	0	2.4	3	2.76	3	2.808
C107								2.81

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C107.1	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]
C107.2	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]
C107.3	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]
C107.4	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]
C107.5	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C107 = \frac{C107.1 + C107.2 + C107.3 + C107.4 + C107.5}{5} = 2.81$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE6162 Engineering Practices Lab: C108
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	98	100	96		85	85		90	90		90	90		95	90	100
2	152077		100	96		85	85	90	90	90		85	90		90	90	100
3	152044		96	83	84	100	80		85	85		80	75		85	80	100
4	152037	92	100	96		90	85		100	90		90	90		95	90	100
5	152305		93	90	86	85	80		85	85		85	75		85	80	90
6	152021		93	90		95	85		100	85	86	95	80		85	80	100
7	152050		96	90	76	95	75		80	85		75	75		85	75	90
8	152032	80	80	83		95	70		90	90		75	80		80	75	90
9	152016		90	86		85	90		75	90		75	75	84	85	75	90
10	152051		80	86		90	90	90	95	85		85	75		85	75	100
11	152019		100	96	94	85	85		85	90		90	90		95	90	100
12	152062		86	93		100	90	78	95	80		80	75		85	70	90
13	152048		66	83		75	90		80	85		75	75	88	75	70	90
14	152079		90	93		95	95		95	85		85	75	90	85	75	100
15	152013		80	96	88	100	90		75	80		75	75		80	70	90
16	152070		80	96		90	95		75	85		75	75	76	85	75	90
17	152011		96	96	94	100	90		95	90		90	85		100	75	100
18	152004	76	90	93		90	95		85	85		80	75		75	75	90
19	152039		93	93		95	95		90	85	90	95	80		85	75	100
20	152083	72	96	86		80	90		90	80		80	75		85	75	90
21	152017		100	83		80	95		95	80	94	80	80		85	75	100
22	152046		93	80		75	95		90	80	88	75	80		85	75	100
23	152059	98	100	76		100	85		100	85		90	85		90	75	100
24	152026		100	76		100	85		100	85	98	95	85		95	75	100
25	152052	76	96	76		100	85		100	80		95	80		95	70	100
26	152304	86	100	76		90	85		100	80		90	80		85	75	90
27	152047		100	80	94	85	95		90	75		75	75		75	70	90
28	152003		100	83	86	100	95		95	80		95	80		90	80	100
29	152045	96	100	83		100	95		95	85		95	85		90	75	100
30	152042		100	86		95	95	88	90	80		80	75		95	75	90
31	152065		96	83	84	100	95		95	85		95	85		90	75	100
32	152035		96	90		85	95	76	90	80		85	70		85	75	100
33	152074		100	90	90	95	95		95	80		90	75		90	75	100
34	152041		100	96		95	90		95	75		90	75	88	80	75	100
35	152034		100	93		95	95	94	95	85		80	80		85	80	90
36	152014		100	96		95	95		90	85		90	80	94	90	75	100
37	152058	98	100	86		100	90		95	80		95	75		95	80	100
38	152008		100	86		100	90	94	95	75		90	85		95	85	100
39	152054		96	86		80	85		85	80	78	80	70		75	75	90
40	152002	96	100	86		100	90		95	80		90	75		90	80	100
41	152005		93	80		100	90		100	85		90	85	98	95	85	100
42	152018		96	96		95	95		85	80	96	80	75		90	75	100
43	152301		86	80		100	90		95	80		80	75	92	85	75	100
44	152068		90	86		85	80		90	80	80	90	75		85	75	100

45	152055		96	80		100	90		100	80		80	70	90	90	75	100
46	152033	78	100	83		100	95		95	85		85	75		80	80	100
47	152084		96	83		100	95	86	95	85		85	75		90	75	100
48	152007	76	100	83		90	90		85	90		85	75		85	70	100
49	152064		93	90	78	100	85		100	90		90	80		100	80	100
50	152057		96	83		95	95		90	85		75	75	76	75	70	90
51	152102		90	83		85	85		90	75		70	75	70	70	80	90
52	152076		86	80		90	90		95	80		75	75	76	75	75	100
53	152071	92	100	90		95	85		90	90		85	80		85	80	90
54	152303	88	83	83		95	90		85	80		75	75		80	75	100
55	152040		100	93		100	85		95	85		85	85	92	90	85	100
56	152001		93	83		80	95		90	85	84	80	70		85	75	100
57	152049		93	80		80	90		80	75		70	75	70	85	70	90
58	152030	94	100	90		100	85		95	90		75	80		100	80	100
59	152006		96	90	90	100	85		95	90		85	80		95	75	100
60	152103		76	80		90	85		75	85		75	80	70	80	75	90
61	152078		100	90	86	100	100		90	85		90	80		85	80	90
62	152009		100	90	80	100	100		95	85		85	80		90	80	100
63	152015	80	86	100		85	95		85	85		85	80		85	80	90
64	152061		100	83	80	100	100		95	85		90	80		90	80	100
65	152302		100	80	70	95	95		95	85		85	80		95	80	100
66	152053		100	83		80	95		90	80	72	75	75		90	70	90
67	152043		86	80		80	95		80	75	76	75	75		85	70	90
68	152066		90	80		80	90	80	80	75		75	70		85	75	90
69	152029		100	93		100	95	70	95	95		85	90		80	70	100
70	152056		93	83		100	80		95	90		85	90	74	80	70	90
71	152075		100	93		95	95		95	90	88	90	85		85	90	100
72	152080	88	100	93		90	95		100	90		90	85		95	90	90
73	152022		96	93		90	95		85	90	80	85	85		85	90	90
74	152063		100	96		90	90		90	95		90	90	88	90	80	100
75	152036		100	93	76	95	90		90	95		75	90		75	75	90
76	152069		100	96	80	100	100		95	90		90	85		100	90	100
77	152028		96	93		100	85		95	90		80	85	72	90	85	100
78	152031		100	96		90	85	78	90	85		80	80		75	75	100
79	152023	88	93	96		80	90		100	85		85	85		95	85	100
80	152027	94	100	100		90	90		90	85		85	80		95	80	100
81	152073		93	96		90	95		90	85		80	85	90	85	75	90
82	152082	70	100	80		95	90		90	80		80	80		75	75	100
83	152020	86	100	93		100	90		90	90		80	85		90	85	90
84	152101	70	93	76		90	85		90	85		85	80		80	80	90
85	152081		96	90		90	90	72	80	90		80	80		80	75	90
86	152012		100	93	80	100	90		95	90		80	85		95	85	100
87	152067		100	93		100	95		100	90	98	90	85		100	85	100
88	155038		100	90		90	95		90	90		80	85	90	85	85	100
89	152025		100	90	80	95	95		90	90		85	85		95	90	100

Total = 89	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
Count	16	88	84	16	89	87	7	89	82	11	89	53	12	89	38	89
%	69.57 %	98.88 %	94.38 %	80 %	100 %	97.75 %	58.33 %	100 %	92.13 %	78.57 %	100 %	59.55 %	60 %	100 %	42.7 %	100 %
Level Obtain ed	2	3	3	3	3	3	0	3	3	2	3	0	1	3	0	3
% of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record and $\geq A(9)$ grade in AU																

Attainment Calculation:

Survey:

Survey	C108.1	C108.2	C108.3	C108.4	C108.5
Obtained %	92.31	91.31	90.86	90.45	90.47
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C108:

Course	Internal Test(M)	VIVA	RECORD	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C108.1	2	3	3	2.4	3	2.76	3	2.808
C108.2	3	3	3	3	3	3	3	3
C108.3	0	3	3	1.2	3	2.28	3	2.42
C108.4	2	3	0	1.8	3	2.52	3	2.616
C108.5	1	3	0	1.2	3	2.28	3	2.424
C108								2.65

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C108.1	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]
C108.2	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]
C108.3	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]
C108.4	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]
C108.5	AU Exam	[0.6*Internal Test + 0.2*VIVA + 0.2*RECORD]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C108 = \frac{C108.1 + C108.2 + C108.3 + C108.4 + C108.5}{5} = 2.65$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE6163 Physics & Chemistry Lab: C109
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	Model					AU
		CO1	CO2	CO3	CO4	CO5	
		M	M	M	M	M	
1	152001	80	80	80	80	80	100
2	152002	92	92	92	92	92	100
3	152003	96	96	96	96	96	100
4	152004	89	89	89	89	89	90
5	152005	91	91	91	91	91	90
6	152006	100	100	100	100	100	100
7	152007	72	72	72	72	72	90
8	152008	88	88	88	88	88	100
9	152009	90	90	90	90	90	90
10	152011	91	91	91	91	91	90
11	152012	83	83	83	83	83	100
12	152013	80	80	80	80	80	90
13	152014	89	89	89	89	89	90
14	152015	93	93	93	93	93	90
15	152016	91	91	91	91	91	100
16	152017	90	90	90	90	90	90
17	152018	89	89	89	89	89	100
18	152019	95	95	95	95	95	100
19	152020	96	96	96	96	96	100
20	152021	91	91	91	91	91	100
21	152022	84	84	84	84	84	100
22	152023	93	93	93	93	93	100
23	152025	100	100	100	100	100	100
24	152026	92	92	92	92	92	100
25	152027	94	94	94	94	94	100
26	152028	91	91	91	91	91	90
27	152029	100	100	100	100	100	100
28	152030	78	78	78	78	78	100
29	152031	99	99	99	99	99	100
30	152032	88	88	88	88	88	90
31	152033	96	96	96	96	96	100
32	152034	89	89	89	89	89	90
33	152035	92	92	92	92	92	100
34	152036	96	96	96	96	96	100
35	152037	88	88	88	88	88	100
36	152038	94	94	94	94	94	100
37	152039	84	84	84	84	84	90
38	152040	100	100	100	100	100	100
39	152041	94	94	94	94	94	100
40	152042	93	93	93	93	93	100
41	152043	73	73	73	73	73	80
42	152044	91	91	91	91	91	100
43	152045	90	90	90	90	90	100
44	152046	90	90	90	90	90	90

45	152047	90	90	90	90	90	100
46	152048	78	78	78	78	78	80
47	152049	76	76	76	76	76	90
48	152050	85	85	85	85	85	90
49	152051	92	92	92	92	92	100
50	152052	89	89	89	89	89	100
51	152053	100	100	100	100	100	90
52	152054	78	78	78	78	78	90
53	152055	91	91	91	91	91	100
54	152056	85	85	85	85	85	90
55	152057	81	81	81	81	81	90
56	152058	88	88	88	88	88	90
57	152059	91	91	91	91	91	100
58	152060	99	99	99	99	99	100
59	152061	94	94	94	94	94	100
60	152062	85	85	85	85	85	90
61	152063	86	86	86	86	86	90
62	152064	92	92	92	92	92	90
63	152065	87	87	87	87	87	90
64	152066	83	83	83	83	83	90
65	152067	99	99	99	99	99	100
66	152068	89	89	89	89	89	90
67	152069	100	100	100	100	100	100
68	152070	80	80	80	80	80	80
69	152071	91	91	91	91	91	100
70	152073	80	80	80	80	80	90
71	152074	90	90	90	90	90	100
72	152075	84	84	84	84	84	90
73	152076	74	74	74	74	74	90
74	152077	97	97	97	97	97	100
75	152078	71	71	71	71	71	90
76	152079	81	81	81	81	81	90
77	152080	85	85	85	85	85	80
78	152081	88	88	88	88	88	70
79	152082	85	85	85	85	85	90
80	152083	82	82	82	82	82	90
81	152084	83	83	83	83	83	100
82	152101	91	91	91	91	91	80
83	152102	75	75	75	75	75	100
84	152103	80	80	80	80	80	80
85	152301	87	87	87	87	87	100
86	152302	86	86	86	86	86	90
87	152303	84	84	84	84	84	90
88	152304	86	86	86	86	86	90
89	152305	78	78	78	78	78	80

Total: 89	Model					AU
	CO1	CO2	CO3	CO4	CO5	
	M	M	M	M	M	
Count	79	79	79	79	79	81
%	88.76%	88.76%	88.76%	88.76%	88.76%	91%
Level Obtained	3	3	3	3	3	3
% of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record and $\geq A(9)$ grade in AU						

Attainment Calculation:

Survey:

Survey	C109.1	C109.2	C109.3	C109.4	C109.5
Obtained %	92.69	90.98	93.66	93.39	90.78
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C109:

Course	Internal Test(M)		IA	AU Exam	Direct Attainment	Survey	Overall attainment
C109.1	3		3	3	3	3	3
C109.2	3		3	3	3	3	3
C109.3	3		3	3	3	3	3
C109.4	3		3	3	3	3	3
C109.5	3		3	3	3	3	3
C109							3

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C109.1	AU Exam	[1*Internal Test]
C109.2	AU Exam	[1*Internal Test]
C109.3	AU Exam	[1*Internal Test]
C109.4	AU Exam	[1*Internal Test]
C109.5	AU Exam	[1*Internal Test]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C109 = \frac{C109.1 + C109.2 + C109.3 + C109.4 + C109.5}{5} = 3$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: HS6251 Technical English -II: C110
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignments			AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	152001	80	80	88	88	83	100	100	100	70
2	152002	84	84	89	89	87	100	100	100	80
3	152003	97	97	92	92	93	100	100	100	80
4	152004	81	81	86	86	82	100	100	100	80
5	152005	93	93	96	96	92	100	100	100	80
6	152006	97	97	90	90	91	100	100	100	80
7	152007	77	77	75	75	77	100	100	100	80
8	152008	78	78	92	92	93	100	100	100	70
9	152009	92	92	85	85	89	100	100	100	80
10	152011	82	82	85	85	84	100	100	100	70
11	152012	90	90	88	88	91	100	100	100	80
12	152013	88	88	82	82	85	100	100	100	80
13	152014	90	90	92	92	93	100	100	100	80
14	152015	75	75	84	84	86	100	100	100	60
15	152016	93	93	92	92	91	100	100	100	80
16	152017	97	97	94	94	93	100	100	100	70
17	152018	92	92	94	94	93	100	100	100	80
18	152019	96	96	AA	AA	92	100	100	100	80
19	152020	78	78	90	90	93	100	100	100	70
20	152021	81	81	84	84	86	100	100	100	60
21	152022	82	82	85	85	88	100	100	100	80
22	152023	85	85	90	90	91	100	100	100	70
23	152025	85	85	85	85	90	100	100	100	80
24	152026	95	95	89	89	92	100	100	100	70
25	152027	76	76	79	79	78	100	100	100	70
26	152028	90	90	81	81	88	100	100	100	80
27	152029	85	85	80	80	84	100	100	100	80
28	152030	92	92	88	88	87	100	100	100	70
29	152031	80	80	81	81	82	100	100	100	80
30	152032	80	80	84	84	82	100	100	100	70
31	152033	75	75	84	84	83	100	100	100	80
32	152034	85	85	90	90	91	100	100	100	80
33	152035	88	88	91	91	92	100	100	100	90
34	152036	83	83	80	80	84	100	100	100	80
35	152037	92	92	88	88	92	100	100	100	80
36	152038	88	88	78	78	91	100	100	100	90
37	152039	76	76	81	81	79	100	100	100	70
38	152040	76	76	81	81	83	100	100	100	70
39	152041	86	86	89	89	89	100	100	100	80
40	152042	95	95	96	96	94	100	100	100	80
41	152043	84	84	72	72	85	100	100	100	80
42	152044	92	92	90	90	93	100	100	100	80
43	152045	93	93	91	91	92	100	100	100	70
44	152046	90	90	85	85	90	100	100	100	80

45	152047	91	91	89	89	91	100	100	100	80
46	152048	78	78	83	83	82	100	100	100	90
47	152049	68	68	78	78	85	100	100	100	70
48	152050	76	76	75	75	81	100	100	100	60
49	152051	88	88	87	87	87	100	100	100	80
50	152052	97	97	87	87	92	100	100	100	80
51	152053	70	70	75	75	84	100	100	100	80
52	152054	73	73	85	85	86	100	100	100	70
53	152055	90	90	91	91	90	100	100	100	80
54	152056	80	80	90	90	91	100	100	100	80
55	152057	84	84	85	85	86	100	100	100	80
56	152058	91	91	94	94	95	100	100	100	80
57	152059	78	78	81	81	87	100	100	100	80
58	152060	95	95	92	92	93	100	100	100	70
59	152061	85	85	93	93	95	100	100	100	80
60	152062	78	78	81	81	80	100	100	100	70
61	152063	82	82	81	81	84	100	100	100	80
62	152064	94	94	85	85	89	100	100	100	80
63	152065	90	90	90	90	89	100	100	100	80
64	152066	74	74	79	79	81	100	100	100	70
65	152067	95	95	90	90	91	100	100	100	90
66	152068	79	79	85	85	AA	100	100	100	80
67	152069	90	90	94	94	92	100	100	100	90
68	152070	94	94	81	81	92	100	100	100	80
69	152071	86	86	90	90	89	100	100	100	80
70	152073	74	74	69	69	81	100	100	100	90
71	152074	88	88	92	92	90	100	100	100	70
72	152075	94	94	80	80	91	100	100	100	90
73	152076	90	90	AA	AA	92	100	100	100	90
74	152077	94	94	93	93	91	100	100	100	70
75	152078	76	76	AA	AA	89	100	100	100	80
76	152079	89	89	86	86	84	100	100	100	70
77	152080	90	90	90	90	76	100	100	100	90
78	152081	68	68	65	65	87	100	100	100	60
79	152082	70	70	75	75	90	100	100	100	70
80	152083	74	74	71	71	75	100	100	100	70
81	152084	69	69	65	65	78	100	100	100	70
82	152101	77	77	75	75	90	100	100	100	70
83	152102	72	72	72	72	71	100	100	100	70
84	152103	85	85	80	80	74	100	100	100	0
85	152301	91	91	94	94	92	100	100	100	80
86	152302	90	90	91	91	71	100	100	100	90
87	152303	AA	AA	94	94	93	100	100	100	90
88	152304	88	88	86	86	91	100	100	100	70
89	152305	75	75	81	81	88	100	100	100	90

% of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C$ (7) grade in AU									
Total: 89	CIT					Assignments			AU
	CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	88	88	86	86	88	89	89	89	84
%	100%	100%	100%	100%	100%	100%	100%	100%	94.38%
Level Obtained	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C110.1	C110.2	C110.3	C110.4	C110.5
Obtained %	94.99	94.88	94.67	91.1	94.09
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C110:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C110.1	3	3	3	3	3	3	3
C110.2	3	3	3	3	3	3	3
C110.3	3	3	3	3	3	3	3
C110.4	3	3	3	3	3	3	3
C110.5	3	3	3	3	3	3	3
C110							3

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C110.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C110.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C110.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C110.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C110.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C110 = \frac{C110.1 + C110.2 + C110.3 + C110.4 + C110.5}{5} = 3$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: MA6251 Mathematics -II: C111

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	T1	T2	T3	T4	T5	
1	152002	92	96	100	92	96	100	100	100	100	100	100	100	100	100	100	70
2	152003	72	84	50	96	80	100	100	100	100	100	100	100	100	100	100	70
3	152004	28	88	20	36	80	100	100	100	100	100	100	100	100	100	100	50
4	152005	68	76	90	96	88	100	100	100	100	100	100	100	100	100	100	70
5	152008	80	100	25	80	84	100	100	100	100	100	100	100	100	100	100	70
6	152011	60	84	85	92	88	100	100	100	100	100	100	100	100	100	100	70
7	152013	48	76	20	36	64	100	100	100	100	100	100	100	100	100	100	70
8	152014	64	92	10	64	80	100	100	100	100	100	100	100	100	100	100	60
9	152016	72	40	20	60	52	100	100	100	100	100	100	100	100	100	100	50
10	152017	56	76	20	60	84	100	100	100	100	100	100	100	100	100	100	50
11	152018	60	96	20	84	76	100	100	100	100	100	100	100	100	100	100	70
12	152019	76	96	85	A	A	100	100	100	100	100	100	100	100	100	100	50
13	152021	68	92	50	88	72	100	100	100	100	100	100	100	100	100	100	60
14	152026	80	96	20	88	76	100	100	100	100	100	100	100	100	100	100	50
15	152032	60	84	10	80	76	100	100	100	100	100	100	100	100	100	100	50
16	152034	44	68	20	64	76	100	100	100	100	100	100	100	100	100	100	50
17	152035	64	36	15	60	72	100	100	100	100	100	100	100	100	100	100	60
18	152037	100	82	85	96	80	100	100	100	100	100	100	100	100	100	100	80
19	152039	68	80	50	80	80	100	100	100	100	100	100	100	100	100	100	60
20	152041	76	60	15	92	60	100	100	100	100	100	100	100	100	100	100	50
21	152042	36	100	10	76	52	100	100	100	100	100	100	100	100	100	100	50
22	152044	84	96	100	96	84	100	100	100	100	100	100	100	100	100	100	80
23	152045	64	92	20	64	64	100	100	100	100	100	100	100	100	100	100	60
24	152046	52	68	50	68	64	100	100	100	100	100	100	100	100	100	100	0
25	152047	52	92	60	88	84	100	100	100	100	100	100	100	100	100	100	50
26	152048	16	44	0	80	20	100	100	100	100	100	100	100	100	100	100	0
27	152050	44	32	20	92	76	100	100	100	100	100	100	100	100	100	100	0
28	152051	64	88	50	98	88	100	100	100	100	100	100	100	100	100	100	50
29	152052	60	92	35	88	88	100	100	100	100	100	100	100	100	100	100	50
30	152054	44	96	25	8	36	100	100	100	100	100	100	100	100	100	100	0
31	152055	76	96	85	100	92	100	100	100	100	100	100	100	100	100	100	90
32	152058	52	88	45	72	68	100	100	100	100	100	100	100	100	100	100	50
33	152059	40	80	40	80	72	100	100	100	100	100	100	100	100	100	100	60
34	152060	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
35	152062	44	56	10	76	84	100	100	100	100	100	100	100	100	100	100	50
36	152065	56	92	50	68	68	100	100	100	100	100	100	100	100	100	100	70
37	152068	44	80	20	72	68	100	100	100	100	100	100	100	100	100	100	50
38	152070	36	84	20	36	36	100	100	100	100	100	100	100	100	100	100	50
39	152074	60	92	70	84	88	100	100	100	100	100	100	100	100	100	100	50
40	152077	76	92	35	76	88	100	100	100	100	100	100	100	100	100	100	70
41	152079	48	52	30	92	76	100	100	100	100	100	100	100	100	100	100	70
42	152083	0	28	10	32	40	100	100	100	100	100	100	100	100	100	100	0
43	152301	76	72	35	68	92	100	100	100	100	100	100	100	100	100	100	50
44	152304	48	76	35	56	64	100	100	100	100	100	100	100	100	100	100	50
45	152305	44	56	0	64	66	100	100	100	100	100	100	100	100	100	100	0

46	152001	72	80	30	80	84	100	100	100	100	100	100	100	100	100	100	70
47	152006	100	100	80	88	9	100	100	100	100	100	100	100	100	100	100	80
48	152007	84	100	5	48	52	100	100	100	100	100	100	100	100	100	100	50
49	152009	64	86	10	64	48	100	100	100	100	100	100	100	100	100	100	50
50	152012	84	72	30	88	84	100	100	100	100	100	100	100	100	100	100	50
51	152015	68	76	30	68	48	100	100	100	100	100	100	100	100	100	100	50
52	152020	28	72	15	76	64	100	100	100	100	100	100	100	100	100	100	50
53	152022	60	88	80	68	92	100	100	100	100	100	100	100	100	100	100	70
54	152023	68	76	75	76	64	100	100	100	100	100	100	100	100	100	100	70
55	152025	76	88	16	100	100	100	100	100	100	100	100	100	100	100	100	70
56	152027	56	96	16	40	68	100	100	100	100	100	100	100	100	100	100	50
57	152028	84	92	50	76	44	100	100	100	100	100	100	100	100	100	100	0
58	152029	44	92	80	56	84	100	100	100	100	100	100	100	100	100	100	60
59	152030	100	100	80	88	100	100	100	100	100	100	100	100	100	100	100	100
60	152031	36	36	40	72	80	100	100	100	100	100	100	100	100	100	100	0
61	152033	80	88	50	72	84	100	100	100	100	100	100	100	100	100	100	70
62	152036	80	96	0	48	88	100	100	100	100	100	100	100	100	100	100	50
63	152038	92	96	35	72	100	100	100	100	100	100	100	100	100	100	100	50
64	152040	76	92	80	72	92	100	100	100	100	100	100	100	100	100	100	60
65	152043	24	80	10	52	8	100	100	100	100	100	100	100	100	100	100	0
66	152049	12	34	20	36	20	100	100	100	100	100	100	100	100	100	100	50
67	152053	24	58	10	48	68	100	100	100	100	100	100	100	100	100	100	50
68	152056	44	92	0	28	28	100	100	100	100	100	100	100	100	100	100	0
69	152057	40	68	16	60	36	100	100	100	100	100	100	100	100	100	100	50
70	152061	100	100	90	88	96	100	100	100	100	100	100	100	100	100	100	80
71	152063	76	92	100	84	80	100	100	100	100	100	100	100	100	100	100	70
72	152064	88	96	30	60	64	100	100	100	100	100	100	100	100	100	100	90
73	152066	56	80	8	68	52	100	100	100	100	100	100	100	100	100	100	0
74	152067	92	80	100	84	92	100	100	100	100	100	100	100	100	100	100	50
75	152069	84	80	A	56	56	100	100	100	100	100	100	100	100	100	100	70
76	152071	48	84	20	56	56	100	100	100	100	100	100	100	100	100	100	50
77	152073	40	60	0	56	72	100	100	100	100	100	100	100	100	100	100	50
78	152075	80	92	50	76	84	100	100	100	100	100	100	100	100	100	100	50
79	152076	52	68	10	72	72	100	100	100	100	100	100	100	100	100	100	50
80	152078	24	32	20	36	36	100	100	100	100	100	100	100	100	100	100	50
81	152080	52	68	20	72	100	100	100	100	100	100	100	100	100	100	100	50
82	152081	48	56	0	52	48	100	100	100	100	100	100	100	100	100	100	50
83	152082	36	88	15	48	40	100	100	100	100	100	100	100	100	100	100	0
84	152084	44	72	80	68	64	100	100	100	100	100	100	100	100	100	100	50
85	152101	28	72	5	48	60	100	100	100	100	100	100	100	100	100	100	50
86	152102	52	52	35	56	52	100	100	100	100	100	100	100	100	100	100	50
87	152103	40	60	0	36	76	100	100	100	100	100	100	100	100	100	100	0
88	152302	40	60	0	24	76	100	100	100	100	100	100	100	100	100	100	0
89	152303	40	40	15	64	40	100	100	100	100	100	100	100	100	100	100	0

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C$ (7) grade in AU																
Total: 89	CIT					Assignment			Seminar		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	T1	T2	T3	T4	T5	
Count	46	74	20	64	65	89	89	89	89	89	89	89	88	89	89	25
%	51.69 %	83.15 %	22.73 %	72.73 %	73.86 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	28.09 %
Level Obtain ed	0	3	0	2	2	3	3	3	3	3	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C111.1	C111.2	C111.3	C111.4	C111.5
Obtained %	94	92.66	91.46	93.92	94.75
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C111:

Course	Internal Test	Assign.	Seminar	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C111.1	0	3	-	3	1.2	0	0.48	3	0.98
C111.2	3	3	-	3	3	0	1.2	3	1.56
C111.3	0	3	-	3	1.2	0	0.48	3	0.98
C111.4	2	-	3	3	2.3	0	0.92	3	1.34
C111.5	2	-	3	3	2.3	0	0.92	3	1.34
C111									1.24

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C111.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C111.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C111.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C111.4	AU Exam	[0.6*Internal Test + 0.2*Seminar + 0.2*Tutorial]
C111.5	AU Exam	[0.6*Internal Test + 0.2*Seminar + 0.2*Tutorial]

Overall Attainment:

$$C111 = \frac{C111.1 + C111.2 + C111.3 + C111.4 + C111.5}{5} = 1.24$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: PH6251 Engineering Physics -II: C112
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	152001	88	71	68	66	62	92.5	88.5	92	60
2	152002	88	58	90	96	70	100	90	100	80
3	152003	94	76	92	94	85	100	100	100	70
4	152004	28	14	54	54	0	90	45	100	0
5	152005	95	36	84	96	70	95	95	100	80
6	152006	90	82	64	81	77	91.5	92.5	88	80
7	152007	88	45	60	71	6	86.5	94	95	60
8	152008	94	84	96	96	75	90	95	100	90
9	152009	76	57	60	66	47	94	90	86	80
10	152011	90	62	34	28	60	95	95	100	80
11	152012	82	72	80	65	61	89	83.5	92	80
12	152013	58	44	60	80	45	50	0	0	60
13	152014	78	52	88	68	65	100	90	100	70
14	152015	50	58	50	51	50	94	84	92	70
15	152016	0	0	68	88	0	95	35	0	0
16	152017	68	84	92	60	0	85	40	0	50
17	152018	32	50	70	56	33	95	90	90	50
18	152019	70	56	78	90	88	100	95	100	80
19	152020	92	59	38	67	45	90	89.5	99	70
20	152021	78	48	60	76	15	95	90	90	70
21	152022	82	70	62	54	58	95	96.5	96	70
22	152023	96	64	A	52	53	88	90	91	70
23	152025	98	77	68	77	27	91	91.5	94	60
24	152026	84	36	76	88	70	100	50	100	60
25	152027	90	59	54	61	56	89	88	87	60
26	152028	76	68	62	50	64	93	91.5	92	70
27	152029	76	60	64	80	37	89.5	88	87	50
28	152030	86	86	70	75	76	91	94	91	70
29	152031	74	51	60	65	53	91.5	92	90	70
30	152032	90	52	80	84	0	50	45	90	50
31	152033	74	80	74	57	65	88.5	93.5	89	50
32	152034	84	44	68	64	23	100	100	100	50
33	152035	54	40	88	82	0	50	45	0	50
34	152036	54	63	58	56	42	96	95.5	99	50
35	152037	86	60	92	92	78	95	95	100	80
36	152038	82	73	70	72	64	87	90.5	89	80
37	152039	32	24	58	96	0	50	0	0	50
38	152040	84	64	58	72	55	93.5	91	98	70
39	152041	66	46	82	74	A	95	90	90	50
40	152042	96	32	64	96	5	95	90	0	70
41	152043	40	45	42	38	21	90	89.5	96	0
42	152044	82	28	32	90	35	95	95	90	70
43	152045	84	56	92	90	65	95	95	90	70
44	152046	52	36	92	78	0	50	45	90	50

45	152047	66	44	68	86	60	50	85	100	70
46	152048	0	0	50	80	0	50	0	0	50
47	152049	20	31	58	33	11	91	92	94	50
48	152050	82	32	32	68	30	100	45	0	50
49	152051	84	32	88	94	0	95	45	0	80
50	152052	70	64	82	86	40	100	95	100	60
51	152053	50	44	50	39	24	94.5	89.5	93	70
52	152054	86	30	44	58	0	100	95	0	50
53	152055	80	56	92	86	58	95	90	90	70
54	152056	52	57	50	54	0	91	89.5	89	50
55	152057	74	67	25	64	44	87	94.5	99	50
56	152058	A	A	86	92	80	100	90	100	60
57	152059	68	40	84	74	50	100	45	100	70
58	152060	94	88	94	96	90	90	90	100	90
59	152061	94	66	84	86	76	94	86.5	93	70
60	152062	58	44	52	86	30	95	90	90	60
61	152063	90	71	70	67	62	95.5	95.5	97	70
62	152064	76	64	66	31	50	87.5	96	96	70
63	152065	76	34	76	76	65	100	90	100	60
64	152066	70	55	74	56	13	88.5	85	86	70
65	152067	78	85	82	87	80	88	87	91	50
66	152068	64	58	30	74	0	50	35	0	70
67	152069	90	88	86	A	64	93	94	93	80
68	152070	50	46	A	A	15	50	45	100	50
69	152071	92	67	32	54	12	94.5	93	94	80
70	152073	60	37	82	64	53	87	89.5	89	80
71	152074	66	60	96	80	80	90	95	100	80
72	152075	84	60	56	72	59	93	92.5	90	50
73	152076	96	50	60	71	50	93.5	89.5	93	50
74	152077	60	60	88	96	55	95	90	90	90
75	152078	50	31	50	44	30	94	90	88	70
76	152079	20	48	72	74	75	90	90	90	70
77	152080	76	64	68	73	78	95	94.5	94	60
78	152081	58	45	34	39	8	90	85	93	0
79	152082	50	57	34	44	38	89	90	94	0
80	152083	8	38	66	24	10	40	0	90	0
81	152084	74	64	50	66	67	90	92	94	60
82	152101	72	55	40	50	29	89.5	86	94	50
83	152102	64	42	60	60	19	88	94.5	90	0
84	152103	71	50	54	50	27	96	92	86	0
85	152301	66	36	84	80	10	95	90	100	0
86	152302	90	25	36	56	32	94.5	89.5	94	50
87	152303	62	45	56	74	38	93	95	96	60
88	152304	84	20	62	74	35	95	95	100	70
89	152305	40	24	A	40	0	50	45	0	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C$ (7) grade in AU									
Total: 89	CIT					Assignments			AU
	CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	66	32	57	62	29	78	72	77	43
%	75%	36.36%	66.28%	71.26%	32.95%	87.64%	80.9%	86.52%	48.31%
Level Obtained	2	0	1	2	0	3	3	3	0

Attainment Calculation:

Survey:

Survey	C112.1	C112.2	C112.3	C112.4	C112.5
Obtained %	95.72	93.37	95.21	94.89	93.67
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C112:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C112.1	2	3	2.3	0	0.92	3	1.34
C112.2	0	3	0.9	0	0.36	3	0.89
C112.3	1	3	1.6	0	0.64	2	1.11
C112.4	2	3	2.3	0	0.92	2	1.34
C112.5	0	3	0.9	0	0.36	2	0.89
C112							1.11

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C112.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C112.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C112.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C112.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C112.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C112 = \frac{C112.1 + C112.2 + C112.3 + C112.4 + C112.5}{5} = 1.11$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: CY6251 Engineering Chemistry -II: C113
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment		Seminar	Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	S1	Q1	Q2	
1	152060	100	98	100	100	93	100	100	100	82	100	90
2	152077	54	96	96	96	88	100	100	100	75	100	70
3	152044	68	76	68	46	18	100	95	100	67	90	60
4	152037	98	70	94	94	86	100	90	90	67	90	90
5	152305	8	60	56	24	41	100	85	90	45	80	0
6	152021	56	60	80	48	58	100	85	90	52	80	50
7	152050	50	50	28	46	50	100	85	100	50	90	50
8	152032	76	40	96	52	34	85	90	90	55	90	50
9	152016	68	46	82	56	35	100	90	100	62	100	50
10	152051	72	60	70	60	32	100	90	100	60	100	50
11	152019	60	80	92	70	86	100	100	100	66	100	70
12	152062	80	84	86	56	65	100	90	100	52	90	80
13	152048	56	44	74	46	20	100	80	90	35	90	0
14	152079	54	46	64	56	50	100	95	100	45	90	70
15	152013	58	64	100	40	67	100	90	100	46	90	50
16	152070	70	46	A	A	69	85	85	90	40	100	50
17	152011	84	40	80	78	80	100	95	90	54	100	80
18	152004	28	12	70	46	37	100	95	100	27	100	50
19	152039	24	24	76	46	6	100	90	100	34	90	50
20	152083	8	40	32	20	11	85	95	100	27	90	0
21	152017	40	64	68	64	37	100	95	100	37	100	70
22	152046	64	78	98	84	65	100	95	100	47	100	70
23	152059	84	54	88	82	86	100	100	100	60	100	70
24	152026	68	68	90	70	65	100	95	100	54	90	50
25	152052	64	44	96	80	77	100	100	90	64	90	80
26	152304	46	24	96	62	74	100	95	100	47	90	60
27	152047	64	72	A	A	75	100	95	90	54	90	70
28	152003	96	96	100	94	92	100	100	100	67	100	100
29	152045	56	80	86	70	84	100	100	90	64	90	50
30	152042	88	36	68	64	61	100	100	100	66	100	50
31	152065	94	62	86	78	65	100	100	100	64	100	70
32	152035	60	84	64	70	24	100	100	100	64	100	60
33	152074	58	88	100	84	93	100	95	100	74	100	90
34	152041	28	72	84	86	88	100	95	90	54	90	50
35	152034	48	80	98	30	50	100	95	90	54	100	50
36	152014	92	38	92	62	64	100	95	90	60	90	70
37	152058	74	38	72	86	63	100	90	90	54	90	80
38	152008	96	76	88	86	88	100	95	100	60	100	80
39	152054	60	58	56	16	80	100	80	90	37	90	0
40	152002	82	76	96	70	72	100	100	100	74	100	90
41	152005	80	80	70	94	81	100	95	90	67	100	70
42	152018	72	54	92	44	41	100	95	90	54	100	70
43	152301	34	48	94	60	50	100	90	100	47	90	70
44	152068	44	56	76	36	50	100	95	100	47	100	60

45	152055	68	60	96	88	93	100	100	100	60	100	70
46	152033	52	46	84	70	85	100	80	70	33	63	60
47	152084	28	46	82	44	62	100	100	40	27	73	60
48	152007	34	64	94	64	50	0	60	67	20	70	50
49	152064	84	76	80	60	77	100	100	83	47	13	80
50	152057	40	34	90	60	71	90	80	53	13	70	50
51	152102	40	32	90	50	63	0	80	53	20	60	50
52	152076	74	50	68	46	37	100	60	23	7	53	60
53	152071	78	42	92	68	55	100	100	47	27	67	70
54	152303	0	0	88	54	50	0	60	43	7	53	50
55	152040	46	86	90	62	71	100	100	37	20	73	80
56	152001	70	66	98	66	74	100	80	33	20	33	70
57	152049	34	74	0	AB	19	0	60	43	20	33	0
58	152030	84	76	86	72	82	100	100	77	53	60	90
59	152006	84	94	96	92	87	100	100	83	93	73	80
60	152103	68	46	60	40	36	0	80	40	7	60	0
61	152078	12	16	24	20	32	100	100	30	67	73	60
62	152009	40	56	72	64	73	100	100	67	47	33	50
63	152015	48	68	74	44	59	100	100	37	80	73	70
64	152061	80	96	90	66	86	100	100	67	60	47	80
65	152302	60	40	60	62	51	90	60	83	70	67	70
66	152053	78	20	86	38	44	100	100	37	13	67	50
67	152043	6	16	60	48	34	100	80	40	13	20	50
68	152066	56	18	96	92	58	0	80	57	13	70	70
69	152029	68	56	92	52	81	100	100	63	53	A	60
70	152056	68	52	76	40	5	100	100	30	0	67	50
71	152075	64	84	64	84	61	100	100	87	60	73	80
72	152080	52	64	90	70	83	100	100	87	67	60	90
73	152022	54	46	64	34	71	100	80	47	33	47	70
74	152063	54	64	68	58	62	100	100	50	13	67	70
75	152036	76	30	90	68	60	100	100	63	27	A	50
76	152069	78	70	A	A	80	100	60	87	40	73	70
77	152028	66	78	90	78	59	100	100	50	60	53	50
78	152031	60	68	96	64	58	100	100	73	40	73	60
79	152023	40	62	69	67	79	100	80	60	13	53	70
80	152027	58	86	64	50	59	100	100	40	20	73	70
81	152073	10	36	68	32	64	100	100	A	0	80	50
82	152082	78	42	84	40	51	100	100	37	47	53	70
83	152020	68	60	100	78	61	100	100	47	40	60	60
84	152101	8	4	64	54	29	100	80	40	0	57	50
85	152081	32	26	42	20	17	100	100	23	0	53	60
86	152012	54	62	90	54	77	100	100	63	53	53	60
87	152067	94	96	94	72	89	100	100	100	80	87	80
88	152038	90	72	94	94	85	0	80	70	33	A	70
89	152025	88	72	96	52	65	100	100	73	40	A	70

Benchmark :% of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C(7)$ grade in AU											
Total = 89	CIT					Assignments		Seminar	Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	S1	Q1	Q2	
Count	49	47	79	47	52	82	83	60	16	64	44
%	55.06%	52.81%	91.86%	54.65%	58.43%	92.13%	93.26%	68.18%	17.98%	75.29%	49.44%
Level Obtained	0	0	3	0	0	3	3	1	0	2	0

Attainment Calculation:

Survey:

Survey	C113.1	C113.2	C113.3	C113.4	C113.5
Obtained %	91.29	88.23	88.79	86.95	87.52
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C113:

Course	Internal Test	Assign.	Seminar	Quiz	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C113.1	0	3	-	-	0.9	0	0.36	3	0.89
C113.2	0	3	-	-	0.9	0	0.36	3	0.89
C113.3	3	-	1	-	2.6	0	1.04	3	1.43
C113.4	0	-	-	-	0	0	0	3	0.6
C113.5	0	-	-	2	0.4	0	0.16	3	0.73
C113									0.91

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C113.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C113.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C113.3	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C113.4	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C113.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C113 = \frac{C113.1 + C113.2 + C113.3 + C113.4 + C113.5}{5} = 0.91$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE6251 Basic Civil and Mechanical Engineering: C114
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	152033	96	96	74	74	92	90	90	70	60
2	152084	86	86	98	98	92	90	90	90	60
3	152007	94	94	82	82	92	90	90	80	60
4	152064	94	94	80	80	96	90	90	90	0
5	152057	50	50	70	70	92	80	80	70	70
6	152102	58	58	70	70	96	90	90	70	70
7	152076	96	96	92	92	96	80	80	90	70
8	152071	96	96	88	88	96	90	90	90	80
9	152303	98	98	92	92	96	90	90	90	80
10	152040	98	98	100	100	100	80	80	90	60
11	152001	98	98	96	96	96	90	90	90	70
12	152049	50	50	82	82	92	70	70	80	50
13	152030	74	74	76	76	92	90	90	90	60
14	152006	94	94	80	80	96	90	90	90	70
15	152103	96	96	88	88	96	60	60	90	0
16	152078	50	50	76	76	68	70	70	80	70
17	152009	86	86	66	66	96	90	90	90	80
18	152015	96	96	88	88	96	90	90	90	80
19	152061	96	96	98	98	96	90	90	90	80
20	152302	96	96	92	92	88	90	90	90	60
21	152053	90	90	72	72	80	90	90	70	60
22	152043	72	72	58	58	96	90	90	60	50
23	152066	50	50	90	90	88	80	80	70	70
24	152029	98	98	74	74	92	90	90	70	70
25	152056	72	72	82	82	96	90	90	80	50
26	152075	90	90	80	80	96	90	90	90	70
27	152080	68	68	62	62	92	70	70	70	80
28	152022	96	96	96	96	96	90	90	90	90
29	152063	94	94	96	96	72	90	90	90	60
30	152036	98	98	98	98	72	90	90	90	50
31	152069	98	98	92	92	96	90	90	90	80
32	152028	96	96	96	96	88	90	90	90	50
33	152031	92	92	98	98	84	90	90	90	70
34	152023	90	90	74	74	96	90	90	90	80
35	152027	80	80	96	96	80	90	90	90	70
36	152073	62	62	54	54	73	80	80	60	70
37	152082	50	50	62	62	96	90	90	70	70
38	152020	96	96	88	88	96	90	90	90	80
39	152101	66	66	92	92	80	90	90	90	70
40	152081	74	74	78	78	96	80	80	80	70
41	152012	60	60	68	68	76	80	80	70	70
42	152067	98	98	94	94	96	90	90	90	90
43	152038	98	98	98	98	96	90	90	90	70
44	152025	96	96	90	90	100	90	90	90	70

45	152060	96	96	92	92	96	100	100	100	70
46	152077	90	90	76	76	82	100	100	100	70
47	152044	72	72	50	50	52	100	100	100	60
48	152037	92	92	96	96	88	100	100	100	80
49	152305	64	64	66	66	72	100	100	100	60
50	152021	96	96	68	68	84	100	100	100	70
51	152032	76	76	78	78	88	100	100	100	60
52	152050	A	A	50	50	68	100	100	100	0
53	152016	56	56	64	64	76	100	100	100	50
54	152051	84	84	64	64	88	100	100	100	70
55	152019	92	92	88	88	88	100	100	100	70
56	152062	90	90	66	66	74	100	100	100	70
57	152048	32	32	16	16	68	100	100	100	0
58	152079	A	A	88	88	86	100	100	100	80
59	152013	62	62	62	62	88	100	100	100	50
60	152070	82	82	70	70	86	100	100	100	50
61	152011	92	92	90	90	92	100	100	100	80
62	152004	50	50	50	50	56	100	100	100	0
63	152039	74	74	80	80	72	100	100	100	70
64	152083	10	10	26	26	32	100	100	100	0
65	152017	86	86	84	84	74	100	100	100	70
66	152046	82	82	84	84	84	100	100	100	70
67	152059	90	90	86	86	86	100	100	100	80
68	152026	72	72	82	82	86	100	100	100	60
69	152052	84	84	71	71	68	100	100	100	70
70	152304	74	74	76	76	78	100	100	100	70
71	152047	90	90	70	70	76	100	100	100	50
72	152003	90	90	96	96	94	100	100	100	90
73	152045	92	92	84	84	76	100	100	100	70
74	152042	78	78	82	82	72	100	100	100	80
75	152065	57	57	72	72	76	100	100	100	90
76	152035	68	68	70	70	88	100	100	100	60
77	152074	86	86	66	66	72	100	100	100	70
78	152041	82	82	82	82	66	100	100	100	80
79	152034	78	78	56	56	90	100	100	100	50
80	152014	83	83	74	74	74	100	100	100	90
81	152058	68	68	74	74	80	100	100	100	80
82	152008	92	92	80	80	90	100	100	100	90
83	152054	67	67	50	50	90	100	100	100	50
84	152002	86	86	76	76	96	100	100	100	90
85	152005	80	80	96	96	90	100	100	100	80
86	152018	78	78	60	60	82	100	100	100	70
87	152301	70	70	76	76	80	100	100	100	90
88	152068	76	76	70	70	84	100	100	100	60
89	152055	92	92	76	76	84	100	100	100	80

Benchmark :% of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C(7)$ grade in AU									
Total: 89	CIT					Assignments			AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	76	76	80	80	86	85	85	78	58
%	85.39	85.39	89.89	89.89	96.63	95.51	95.51	87.64	65.17
Level Obtained	3	3	3	3	3	3	3	3	1

Attainment Calculation:

Survey:

Survey	C114.1	C114.2	C114.3	C114.4	C114.5
Obtained %	94.18	94.18	95.605	96.455	96.675
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C114:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C114.1	3	3	3	1	1.8	3	2.04
C114.2	3	3	3	1	1.8	3	2.04
C114.3	3	3	3	1	1.8	3	2.04
C114.4	3	3	3	1	1.8	3	2.04
C114.5	3	3	3	1	1.8	3	2.04
C114							2.04

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C114.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C114.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C114.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C114.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C114.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C114 = \frac{C114.1 + C114.2 + C114.3 + C114.4 + C114.5}{5} = 2.04$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6201 Circuit Theory: C115
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
1	152060	100	96	100	96	95	98	98	98	90	90	90	A	94	98	98	98	98	90
2	152077	96	100	100	96	85	92	92	96	90	80	90	90	96	96	98	98	98	60
3	152044	100	64	92	48	90	94	96	96	80	80	90	80	98	96	94	92	92	90
4	152037	72	96	88	76	90	95	96	96	80	80	80	80	95	96	90	96	96	90
5	152305	52	72	4	4	20	88	92	89	70	70	60	A	86	96	86	82	76	50
6	152021	52	80	76	72	95	95	92	92	80	90	80	80	96	98	92	94	94	70
7	152032	68	84	20	52	35	94	91	94	A	70	A	70	95	85	88	84	79	50
8	152050	60	52	36	64	15	84	89	92	60	60	70	70	92	92	85	82	82	70
9	152016	68	32	32	72	20	91	89	92	80	80	80	80	82	76	82	90	72	0
10	152051	96	96	100	88	95	95	96	88	80	90	90	A	96	96	96	98	98	70
11	152019	88	100	88	100	95	97	96	94	70	90	70	80	96	92	96	96	98	80
12	152062	56	96	88	60	75	89	90	89	70	80	60	90	91	94	84	84	88	50
13	152048	56	56	12	0	0	75	89	84	80	70	80	80	76	72	76	72	70	50
14	152079	52	20	76	76	85	89	89	89	70	80	60	90	94	92	88	87	84	70
15	152013	64	76	64	64	60	81	86	92	60	80	60	80	89	92	79	84	82	50
16	152070	A	A	64	56	50	93	86	90	80	90	60	80	92	86	72	79	86	60
17	152011	68	72	84	92	95	96	92	99	90	80	90	90	95	92	96	96	82	80
18	152004	72	68	48	32	5	92	89	92	70	70	70	80	93	92	82	86	85	50
19	152039	76	48	80	76	10	86	85	86	80	A	70	90	93	93	86	84	73	50
20	152083	24	0	8	12	0	82	85	84	A	70	A	80	90	70	76	72	84	0
21	152017	64	44	48	88	10	85	89	88	80	A	60	80	92	89	84	80	88	70
22	152046	24	20	64	24	75	85	87	88	80	80	80	90	92	89	82	82	82	60
23	152059	68	92	60	84	60	85	90	96	80	90	80	80	92	91	86	92	92	60
24	152026	84	100	80	92	80	92	93	98	90	90	90	90	98	98	98	98	98	90
25	152052	92	72	60	56	95	94	94	94	80	80	70	90	95	94	92	88	94	70
26	152304	76	84	52	48	60	89	89	82	80	80	90	80	93	96	82	81	88	60
27	152047	68	92	60	68	65	91	86	80	70	90	80	70	92	88	80	83	86	80
28	152003	96	96	96	96	90	98	98	99	90	90	90	90	98	98	98	98	98	70
29	152045	84	100	92	96	85	91	96	97	80	80	80	90	94	96	92	87	86	70
30	152042	96	60	52	96	90	92	96	94	90	90	80	90	96	96	94	96	98	70
31	152065	72	96	84	68	80	94	89	98	90	80	70	80	94	94	84	86	94	60
32	152035	96	68	72	56	70	87	85	98	80	80	70	90	92	86	82	84	98	80
33	152074	84	100	92	88	95	96	94	98	90	80	90	80	98	98	98	98	98	80
34	152041	100	88	84	100	80	92	94	84	90	80	70	80	95	94	89	88	92	70
35	152034	84	100	100	44	90	88	90	88	90	80	70	70	94	94	85	82	94	50
36	152014	72	96	88	88	85	93	93	88	90	80	80	80	94	96	94	86	98	70
37	152058	A	A	80	92	90	94	92	98	90	80	80	80	96	96	98	96	98	80
38	152008	84	96	88	96	95	92	87	98	90	90	90	90	98	98	98	98	98	80
39	152054	68	80	52	72	15	85	90	86	80	70	70	70	85	92	84	82	84	50
40	152002	88	96	100	96	95	98	98	98	90	90	90	90	97	98	98	98	98	80
41	152005	96	96	98	98	95	93	94	98	90	80	80	A	94	98	96	98	94	70
42	152018	88	76	68	52	85	92	93	98	90	90	90	90	95	96	88	96	94	70
43	152301	80	96	68	56	75	91	96	86	80	80	90	70	94	92	84	86	86	80

44	152068	52	40	40	96	60	87	84	82	80	70	70	70	82	86	80	82	84	70
45	152055	92	96	100	96	90	92	94	98	80	80	70	70	96	94	98	96	98	70
46	152033	75	63	64	84	78	80	80	90	90	90	90	90	90	90	90	80	90	70
47	152084	80	60	96	72	76	85	85	90	90	80	80	90	90	90	90	80	90	0
48	152007	86	66	68	68	70	80	85	90	90	90	90	80	90	90	90	80	90	70
49	152064	70	30	72	64	72	85	90	90	90	80	80	90	90	90	90	80	90	70
50	152057	40	60	52	52	28	80	85	95	80	90	90	80	90	90	90	80	90	70
51	152102	28	0	64	80	60	80	85	90	90	80	80	90	90	90	90	80	90	50
52	152071	64	60	60	76	50	85	90	95	80	90	90	80	90	90	90	80	90	80
53	152076	72	88	A	A	12	85	85	95	90	80	80	90	90	90	90	80	90	70
54	152303	64	36	A	A	62	80	80	90	80	90	90	80	90	90	90	80	90	60
55	152040	62	38	80	60	76	85	80	95	90	80	80	90	90	90	90	80	90	70
56	152001	56	100	84	68	72	85	80	90	80	90	90	80	90	90	90	80	90	70
57	152049	62	70	62	62	28	80	80	90	90	80	80	90	90	90	90	80	90	0
58	152030	80	76	92	96	82	90	90	95	80	90	90	80	90	90	90	80	90	90
59	152006	100	88	96	88	80	90	90	90	90	80	80	90	90	90	90	80	90	80
60	152103	82	74	32	68	8	85	85	95	80	90	90	80	90	90	90	80	90	A
61	152078	42	62	76	84	76	85	85	95	90	80	80	90	90	90	90	80	90	80
62	152009	62	70	84	76	50	90	90	95	80	90	90	80	90	90	90	80	90	70
63	152015	90	70	60	72	32	90	85	95	90	80	80	90	90	90	90	80	90	70
64	152061	100	76	100	80	76	90	80	95	80	90	90	80	90	90	90	80	90	90
65	152302	80	68	96	32	A	95	85	95	90	80	80	90	90	90	90	80	90	60
66	152053	28	0	96	28	50	85	90	90	80	90	90	80	90	90	90	80	90	50
67	152043	28	0	92	76	16	80	85	90	90	80	80	90	90	90	90	80	90	50
68	152066	62	48	64	24	52	85	85	95	80	90	90	80	90	90	90	80	90	70
69	152029	90	70	60	84	30	80	80	90	90	80	80	90	90	90	90	80	90	70
70	152056	60	64	68	68	A	85	90	95	80	90	90	80	90	90	90	80	90	60
71	152075	50	62	60	76	50	90	90	95	90	80	80	90	90	90	90	80	90	50
72	152080	80	76	68	80	62	90	85	95	80	90	90	80	90	90	90	80	90	80
73	152022	96	84	82	82	68	90	85	95	90	80	80	90	90	90	90	80	90	80
74	152063	80	72	92	80	56	85	80	90	80	90	90	80	90	90	90	80	90	80
75	152036	60	40	64	72	78	80	85	95	90	80	80	90	90	90	90	80	90	70
76	152069	90	70	A	A	68	95	95	95	80	90	90	90	90	90	90	80	90	70
77	152028	70	62	88	80	50	85	85	95	90	80	80	90	90	90	90	80	90	50
78	152031	72	72	96	80	62	90	90	90	80	90	90	80	90	90	90	80	90	70
79	152027	34	14	96	88	60	90	85	95	90	80	80	90	90	90	90	80	90	70
80	152023	20	8	78	78	60	85	80	95	80	90	90	90	90	90	90	80	90	60
81	152073	12	8	68	32	30	90	85	95	90	80	80	80	90	90	90	80	90	50
82	152082	40	60	72	72	58	85	80	90	80	90	90	90	90	90	90	80	90	70
83	152020	50	62	72	92	56	85	85	95	90	80	80	90	90	90	90	80	90	70
84	152101	60	64	40	60	50	80	80	90	80	90	90	80	90	90	90	80	90	50
85	152081	8	0	20	20	10	80	85	95	90	80	80	90	90	90	90	80	90	70
86	152012	40	60	72	68	56	85	80	95	80	90	90	90	90	90	90	80	90	80
87	152067	70	62	96	92	76	95	85	95	90	80	80	80	90	90	90	80	90	80
88	152038	88	72	92	92	76	90	80	95	80	90	90	90	90	90	90	80	90	90
89	152025	60	60	60	88	50	85	85	95	90	80	80	80	90	90	90	80	90	80

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment and $\geq C(7)$ grade in AU L – Level Total=89																		
	CIT					Assignments			Survey		Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
C	65	66	70	66	55	88	89	89	85	86	81	85	89	89	89	89	89	58
%	74.71	75.86	81.4	76.74	63.22	98.88	100	100	97.7	98.85	93.1	100	100	100	100	100	100	65.91
L	2	2	3	2	1	3	3	3	3	3	3	3	3	3	3	3	3	1

Attainment Calculation:

Survey:

Survey	C115.1	C115.2	C115.3	C115.4	C115.5
Obtained %	93.88	92.19	91.59	92.58	94.2
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C115:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C115.1	2	3	-	-	3	2.4	1	1.56	3	1.85
C115.2	2	3	-	-	3	2.4	1	1.56	3	1.85
C115.3	3	3	-	-	3	3	1	1.8	3	2.04
C115.4	2	-	3	3	3	2.4	1	1.56	3	1.85
C115.5	1	-	3	3	3	1.8	1	1.32	3	1.66
C115										1.85

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C115.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C115.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C115.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C115.4	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]
C115.5	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C115 = \frac{C115.1 + C115.2 + C115.3 + C115.4 + C115.5}{5} = 1.85$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE6262 Physics and Chemistry Lab: C116
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	Model					AU
		CO1	CO2	CO3	CO4	CO5	
		M	M	M	M	M	
1	152001	83	83	83	83	83	90
2	152002	97	97	97	97	97	90
3	152003	97	97	97	97	97	90
4	152004	92	92	92	92	92	90
5	152005	93	93	93	93	93	80
6	152006	95	95	95	95	95	90
7	152007	82	82	82	82	82	90
8	152008	94	94	94	94	94	100
9	152009	92	92	92	92	92	90
10	152011	92	92	92	92	92	90
11	152012	95	95	95	95	95	90
12	152013	93	93	93	93	93	100
13	152014	95	95	95	95	95	100
14	152015	74	74	74	74	74	90
15	152016	91	91	91	91	91	100
16	152017	90	90	90	90	90	90
17	152018	94	94	94	94	94	100
18	152019	96	96	96	96	96	90
19	152020	88	88	88	88	88	90
20	152021	88	88	88	88	88	90
21	152022	69	69	69	69	69	90
22	152023	75	75	75	75	75	90
23	152025	89	89	89	89	89	70
24	152026	88	88	88	88	88	90
25	152027	90	90	90	90	90	0
26	152028	78	78	78	78	78	80
27	152029	82	82	82	82	82	100
28	152030	98	98	98	98	98	80
29	152031	90	90	90	90	90	90
30	152032	89	89	89	89	89	90
31	152033	71	71	71	71	71	70
32	152034	94	94	94	94	94	90
33	152035	93	93	93	93	93	90
34	152036	70	70	70	70	70	80
35	152037	91	91	91	91	91	90
36	152038	69	69	69	69	69	80
37	152039	77	77	77	77	77	80
38	152040	85	85	85	85	85	50
39	152041	94	94	94	94	94	70
40	152042	87	87	87	87	87	80
41	152043	84	84	84	84	84	80
42	152044	93	93	93	93	93	90
43	152045	91	91	91	91	91	90

44	152046	93	93	93	93	93	80
45	152047	89	89	89	89	89	100
46	152048	81	81	81	81	81	90
47	152049	62	62	62	62	62	90
48	152050	87	87	87	87	87	0
49	152051	86	86	86	86	86	60
50	152052	88	88	88	88	88	80
51	152053	86	86	86	86	86	100
52	152054	76	76	76	76	76	100
53	152055	96	96	96	96	96	100
54	152056	78	78	78	78	78	90
55	152057	85	85	85	85	85	100
56	152058	89	89	89	89	89	90
57	152059	91	91	91	91	91	90
58	152060	96	96	96	96	96	100
59	152061	87	87	87	87	87	90
60	152062	89	89	89	89	89	100
61	152063	87	87	87	87	87	90
62	152064	71	71	71	71	71	90
63	152065	87	87	87	87	87	90
64	152066	71	71	71	71	71	90
65	152067	97	97	97	97	97	90
66	152068	79	79	79	79	79	80
67	152069	93	93	93	93	93	90
68	152070	77	77	77	77	77	100
69	152071	71	71	71	71	71	90
70	152073	95	95	95	95	95	100
71	152074	95	95	95	95	95	90
72	152075	84	84	84	84	84	90
73	152076	92	92	92	92	92	100
74	152077	71	71	71	71	71	100
75	152078	88	88	88	88	88	90
76	152079	91	91	91	91	91	80
77	152080	87	87	87	87	87	90
78	152081	60	60	60	60	60	100
79	152082	90	90	90	90	90	90
80	152083	72	72	72	72	72	80
81	152084	62	62	62	62	62	90
82	152101	74	74	74	74	74	90
83	152102	71	71	71	71	71	90
84	152103	87	87	87	87	87	90
85	152301	92	92	92	92	92	100
86	152302	84	84	84	84	84	90
87	152303	88	88	88	88	88	80
88	152304	89	89	89	89	89	100
89	152305	76	76	76	76	76	100

Benchmark: % of Students secured ≥ 80 marks in Model, $\geq A(9)$ grade in AU L – Level C- Count						
Total 89	Model					AU
	CO1	CO2	CO3	CO4	CO5	
	M	M	M	M	M	
C	66	66	66	66	66	68
%	74.16%	74.16%	74.16%	74.16%	74.16%	76.4%
L	2	2	2	2	2	2

Attainment Calculation:

Survey:

Survey	C116.1	C116.2	C116.3	C116.4	C116.5
Obtained %	93.59	92.07	91.14	91.04	92.53
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C116:

Course	Internal Test	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C116.1	2	2	2	2	3	2.2
C116.2	2	2	2	2	3	2.2
C116.3	2	2	2	2	3	2.2
C116.4	2	2	2	2	3	2.2
C116.5	2	2	2	2	3	2.2
C116						2.2

Formula for Attainment Calculations:

CO	Attainment = $(0.6*AU + 0.4*IA)$	
	External Assessment (AU)	Internal Assessment (IA)
C116.1	AU Exam	$[1*Model]$
C116.2	AU Exam	$[1*Model]$
C116.3	AU Exam	$[1*Model]$
C116.4	AU Exam	$[1*Model]$
C116.5	AU Exam	$[1*Model]$

Overall Attainment: $[0.8*DI + 0.2*Survey]$

$$C116 = \frac{C116.1 + C116.2 + C116.3 + C116.4 + C116.5}{5} = 2.2$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE6263 Computer Programming Lab: C117
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	A	90	90	A	90	90	A	90	90	A	90	90	A	90	90	100
2	152077	75	85	85	100	90	90	94	90	88	96	87	87		90	90	100
3	152044		80	90	75	85	85	83	90	88	84	90	90		90	90	100
4	152037	90	85	90		90	90	89	90	88	93	90	90	A	90	90	100
5	152305	A	85	80	A	85	80	A	88	85	A	90	90		90	80	80
6	152021	75	85	85	75	90	90	86	90	88		87	87		90	90	100
7	152032	85	90	80		85	90	83	85	80	93	90	90		90	90	90
8	152050	50	80	80	63	85	90	83	90	85	71	90	90		90	90	90
9	152016	80	85	80		85	80	89	85	83	80	90	90	A	90	90	100
10	152051	A	85	90	A	90	90	A	90	88	A	87	87		90	90	100
11	152019	92	90	90	88	90	90	94	90	90	84	90	90		90	90	100
12	152062	60	85	85		85	85	77	88	85	76	90	90		90	90	90
13	152048	67	80	80	50	90	85	83	90	80	71	90	90		80	80	90
14	152079	75	80	85		85	80	80	90	85	82	90	90		90	90	90
15	152013	67	85	75	50	90	90	91	90	85	87	90	90		90	90	90
16	152070	80	85	80		75	75	71	83	75	78	57	57		90	70	80
17	152011	88	85	80	75	90	85	89	90	83	91	90	90		90	90	100
18	152004	50	80	80		85	80	91	85	80	82	90	90		80	80	80
19	152039	75	85	80	83	90	85	94	90	88	87	87	87		90	80	80
20	152083	50	80	75		90	90	71	88	88	71	90	90		90	90	80
21	152017	50	85	85	83	85	85	83	85	88	84	90	90		90	90	80
22	152046	50	80	85		85	80	80	88	83	80	87	87		90	90	90
23	152059	75	90	85		80	85	91	90	90		90	90	88	90	90	90
24	152026	75	90	85	81	90	90	83	90	90	91	90	90		90	90	100
25	152052		90	85	70	90	95	91	88	93	89	83	83		90	90	100
26	152304	75	85	65	67	85	85	89	88	85	82	80	80		90	90	90
27	152047	75	85	85		85	80	83	88	85	84	90	90		90	90	90
28	152003	75	90	85	88	90	90	94	90	90		87	87		90	90	100
29	152045	70	85	75		90	85	97	90	88	78	83	83		90	90	90
30	152042	75	90	90	83	85	85	89	90	90	89	87	87		90	90	100
31	152065	83	90	65	75	90	80	97	88	85	77	90	87		90	90	100
32	152035	80	85	90		90	85	77	90	85		90	83	91	90	90	100
33	152074	90	90	85		90	90	91	90	90	96	90	90		90	90	100
34	152041	90	90	85		90	90	91	90	88	82	90	80		90	90	100
35	152034	95	85	80		85	90	91	85	90	80	90	90		90	90	100
36	152014	A	85	85	A	90	90	A	88	90	A	90	87	A	90	90	100
37	152058	83	90	90	75	90	90	83	88	88	82	90	90		90	90	100
38	152008		90	90	90	90	90	86	90	85	93	90	90		90	90	100
39	152054	67	80	80	75	90	90	80	90	90	82	90	87		90	80	90
40	152002	90	90	90		90	85	94	90	88	96	90	90		90	90	100
41	152005	90	90	90		90	85	91	90	88	91	90	87		90	80	100
42	152018	88	90	85		90	90	83	90	88	87	90	90		90	80	100
43	152301	67	90	85	75	90	90	91	90	88		90	87	77	90	80	100
44	152068	75	85	85		90	85	83	90	83	84	90	87		90	90	100

45	152055	80	90	90		90	90	83	90	85	87	90	90		90	90	100
46	152033	81	85	90	100	90	90	94	90	90	96	90	90		90	90	100
47	152084		85	85	81	90	85	83	90	88	84	90	87		90	90	100
48	152007	90	85	80		85	85	84	90	88	93	80	87		90	90	90
49	152064	77	90	90	88	85	90	94	90	90		90	90		90	90	100
50	152057	75	85	85		85	80	80	90	88	82	90	90		90	90	80
51	152102	75	85	80	100	90	90	94	90	90	96	90	90		90	90	100
52	152071	80	90	80		85	85	85	88	88	82	90	80		80	90	90
53	152076	87	85	90	84	85	90	88	90	88	94	86	90		90	90	90
54	152303	81	85	85		90	85	89	90	85	80	90	87		90	80	90
55	152040	80	90	90	83	85	80	83	90	88	84	90	90		80	80	100
56	152001	94	90	80	75	90	85	97	90	85	77	90	87		90	90	100
57	152049	54	80	80	83	90	80	63	88	90	71	90	87		90	90	90
58	152030	95	90	85		85	85	83	90	90	93	90	90		90	90	100
59	152006		90	90	80	90	90	97	90	90	98	90	90		90	90	100
60	152103	80	80	85		90	85	83	90	85	88	90	87		90	80	0
61	152078	83	90	85	67	85	80	83	90	88		90	90	77	80	90	70
62	152009	73	90	85		90	90	91	90	90		86	90	88	90	90	90
63	152015	80	85	90	83	85	80	89	88	80	89	90	83		90	80	90
64	152061	93	90	85		85	75	91	88	90	82	86	90		90	80	90
65	152302	96	90	80		80	90	91	90	90	91	90	90		90	90	100
66	152053	80	85	85		90	85	71	88	88	71	90	87		90	90	90
67	152043	85	85	75		85	85	76	88	80	79	90	83		90	90	70
68	152066		80	80	95	85	85	83	90	85	84	90	90		90	90	100
69	152029	75	90	85	100	90	85	94	90	90	96	90	90		90	90	100
70	152056	52	80	90		85	90	91	85	90	82	90	90		90	90	80
71	152075	90	90	90		90	90	92	90	90	80	90	90		90	90	100
72	152080	80	90	80		90	80	87	90	85		90	90	92	90	90	100
73	152022		90	90	92	90	90	86	90	90	93	90	90		90	90	100
74	152063	98	85	85		90	90	83	90	85	87	90	87		90	80	100
75	152036	90	85	90		85	90	89	90	80	94	90	87		90	80	90
76	152069	75	85	85	100	90	80	94	88	90		90	80		90	90	100
77	152028	85	90	85	86	90	80	91	90	88		90	83		90	80	100
78	152031	75	85	90	100	90	80	94	90	85	96	90	83		90	90	100
79	152027	90	90	85		90	85	92	90	90	92	86	90		90	90	100
80	152023	90	90	85		85	80	93	90	85	83	90	90		90	90	100
81	152073	80	90	80	73	90	85	83	90	88	71	90	90		90	90	80
82	152082	90	85	75		85	90	85	90	88	87	86	90		90	80	100
83	152020	A	90	80	A	85	90	A	88	88	A	90	83		90	90	90
84	152101	88	85	85		85	85	71	90	83	78	86	90		90	80	80
85	152081	77	85	90	67	85	90	91	85	90	87	80	90		80	90	90
86	152012	87	85	80	75	80	85	91	90	85		90	87	77	90	90	90
87	152067	75	90	85	100	90	85	94	90	88	96	90	83		90	90	100
88	152038	95	90	85	95	90	80	86	90	85		90	87		90	90	100
89	152025	90	85	85		90	85	92	90	85	96	90	90		80	80	100

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	77	89	89	42	89	89	84	89	89	71	89	89	7	89	89	89
C	44	89	82	25	89	87	76	89	88	58	88	88	4	89	88	76
%	57.14	100	92.13	59.52	100	97.75	90.48	100	98.88	81.69	98.88	98.88	57.14	100	98.88	85.39
L	0	3	3	0	3	3	3	3	3	3	3	3	0	3	3	3

Attainment Calculation:

Survey:

Survey	C117.1	C117.2	C117.3	C117.4	C117.5
Obtained %	94.93	93.39	93.09	93.18	92.42
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C117:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C117.1	0	3	3	1.2	3	2.28	3	2.424
C117.2	0	3	3	1.2	3	2.28	3	2.424
C117.3	3	3	3	3	3	3	3	3
C117.4	3	3	3	3	3	3	3	3
C117.5	0	3	3	1.2	3	2.28	3	2.424
C117								2.65

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C117.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C117.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C117.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C117.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C117.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C117 = \frac{C117.1 + C117.2 + C117.3 + C117.4 + C117.5}{5} = 2.65$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6211 Electric Circuits Lab: C118
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060		80	100		90	95	98	85	90		83	100		83	93	100
2	152077		85	100		85	100	98	80	90		80	93		97	93	100
3	152044		90	100	85	65	100		85	90		80	97		60	97	100
4	152037		80	95	96	85	95		85	90		80	100		83	93	100
5	152305		65	100	90	60	95		65	90		70	97		60	97	100
6	152021	82	90	95		85	95		90	90		80	100		83	93	100
7	152032		75	100		70	95		70	90	94	73	100		73	93	100
8	152050	0	80	100	0	60	95	0	50	90	0	75	93	0	73	100	90
9	152016		70	100		65	95		70	95	94	67	93		77	97	100
10	152051		85	100		90	80		95	90	94	90	100		93	97	100
11	152019	97	80	65		90	100		80	90		80	97		87	93	100
12	152062		90	100	98	85	95		90	90		83	100		87	93	100
13	152048		70	100		75	80		75	90	90	73	93		77	87	100
14	152079		90	85		95	95	87	90	90		85	100		100	90	100
15	152013		90	90	96	90	90		85	90		93	100		90	93	100
16	152070		55	90		65	80		70	85	80	63	93		77	97	90
17	152011		85	80		85	95	95	80	90		77	100		87	93	100
18	152004		75	100		70	95	89	75	90		77	90		77	93	100
19	152039	95	80	90		75	100		80	90		80	100		80	93	100
20	152083		80	90		70	95	78	85	100		73	100		77	97	100
21	152017	95	65	90		70	95		65	90		67	97		67	90	100
22	152046	90	90	100		85	100		80	95		87	97		87	100	100
23	152059		75	90	97	85	95		85	90		87	100		83	93	100
24	152026		90	100	98	85	90		70	90		73	100		77	97	100
25	152052		85	100		85	90		80	90	93	73	100		73	97	100
26	152304		65	100		85	85		85	90		76	100	90	70	93	100
27	152047		75	100	87	75	90		75	90		76	100		86	93	100
28	152003		90	80		70	85	97	75	90		80	100		76	93	100
29	152045		90	95		80	85	94	75	90		80	100		76	93	100
30	152042		60	95		65	95		70	95	99	83	100		80	90	100
31	152065	95	90	85		80	85		80	90		80	100		87	93	100
32	152035		60	95	86	60	100		70	90		73	97		73	97	100
33	152074		90	100	99	85	95		85	90		87	100		93	93	100
34	152041		90	95		70	90		75	90		83	100	96	80	93	100
35	152034		80	80		80	85		65	90		83	100	83	87	93	100
36	152014		90	100	90	80	90		80	90		83	100		87	93	100
37	152058		85	80		70	90		90	90	70	87	100		80	97	100
38	152008	95	70	80		85	95		85	90		83	90		83	93	100
39	152054		65	100		70	95		65	90	88	73	100		77	93	90
40	152002		90	100		85	90		90	90	98	73	100		77	93	100
41	152005	0	80	100	0	90	90	0	85	90	0	70	100	0	90	97	100
42	152018		85	100		65	85	90	65	90		73	97		70	90	100
43	152301		75	75		85	85		75	90		77	100	97	83	93	100
44	152068	95	60	80		65	85		65	90		63	90		60	93	90

45	152055		85	90		70	85	94	85	90		80	100		87	93	100
46	152033		60	90		90	90		60	90		60	90	90	70	90	100
47	152084		70	90		90	90		70	90	90	70	90		70	90	90
48	152007		70	90		90	90	90	60	90		70	90		60	90	90
49	152064		60	90	95	90	90		70	90		60	90		70	90	100
50	152057	90	70	90		90	90		70	90		70	90		70	90	80
51	152102		60	90	90	90	90		60	90		60	90		60	90	90
52	152071		60	90	95	90	90		70	90		60	90		70	90	100
53	152076	90	70	90		90	90		60	90		70	90		60	90	100
54	152303		70	90		90	90	85	60	90		70	90		70	90	100
55	152040		60	90		90	90		70	90	85	60	90		60	90	100
56	152001		70	90		90	90		70	90		70	90	90	60	90	100
57	152049	85	80	90		90	90		70	90		60	90		70	90	70
58	152030		70	90	85	90	90		60	90		60	90		70	90	100
59	152006		60	90		90	90	95	60	90		70	90		60	90	100
60	152103	90	60	90		90	90		70	90		70	90		70	90	0
61	152078		70	90	90	90	90		70	90		60	90		70	90	100
62	152009	85	70	90		90	90		70	90		70	90		60	90	100
63	152015		60	90		90	90	90	60	90		70	90		70	90	90
64	152061		60	90		90	90		60	90	85	70	90		70	90	100
65	152302	80	70	90		90	90		70	90		60	90		60	90	100
66	152053		60	90		90	90	90	70	90		60	90		70	90	100
67	152043		70	90		90	90		70	90		60	90	85	80	90	90
68	152066	95	60	90		90	90		60	90		70	90		60	90	100
69	152029		70	90	85	90	90		70	90		60	90		70	90	90
70	152056		70	90		90	90	90	70	90		70	90		60	90	90
71	152075		60	90		90	90		70	90	90	70	90		70	90	100
72	152080		60	90		90	90		60	90		70	90	85	60	90	100
73	152022		70	90		90	90		60	90		60	90		70	90	100
74	152063		70	90		90	90		60	90	90	70	90		70	90	90
75	152036		60	90		90	90	90	70	90		80	90		60	90	100
76	152069		60	90	98	90	90		70	90		70	90	98	70	90	100
77	152028	95	70	90		90	90		60	90		60	90		60	90	100
78	152031	90	70	90		90	90		70	90		70	90		70	90	100
79	152023		60	90	85	90	90		60	90		70	90		70	90	100
80	152027		70	90		90	90	90	60	90		60	90		60	90	100
81	152073		70	90		90	90		70	90		70	90	85	70	90	90
82	152082		60	90		90	90		60	90	90	70	90		70	90	100
83	152020	90	70	90		90	90		70	90		60	90		60	90	100
84	152101		70	90		90	90	85	60	90		70	90		70	90	100
85	152081		60	90	90	90	90		70	90		60	90		60	90	90
86	152012	80	70	90		90	90		60	90		70	90		70	90	100
87	152067	90	70	90		90	90		70	90		60	90		60	90	100
88	152038		70	90		90	90		60	90	85	70	90		70	90	100
89	152025		60	90		90	90	80	70	90		70	90		60	90	100

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	22	89	89	22	89	89	22	89	89	19	89	89	12	89	89	89
C	20	62	87	20	80	89	19	62	89	16	67	89	10	67	89	86
%	90.91	69.66	97.75	90.91	89.89	100	86.36	69.66	100	84.21	75.28	100	83.33	75.28	100	96.63
L	3	1	3	3	3	3	3	1	3	3	2	3	3	2	3	3

Attainment Calculation:

Survey:

Survey	C118.1	C118.2	C118.3	C118.4	C118.5
Obtained %	95.12	91.72	93.06	93.86	93.94
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C118:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C118.1	3	1	3	2.6	3	2.84	3	2.87
C118.2	3	3	3	3	3	3	3	3
C118.3	3	1	3	2.6	3	2.84	3	2.87
C118.4	3	2	3	2.8	3	2.92	3	2.94
C118.5	3	2	3	2.8	3	2.92	3	2.94
C118								2.92

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C118.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C118.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C118.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C118.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C118.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C118 = \frac{C118.1 + C118.2 + C118.3 + C118.4 + C118.5}{5} = 2.92$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: MA6351 Transforms and Partial Differential Equations: C201
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	T1	T2	T3	T4	T5	
1	152002	100	92	100	100	88	100	100	100	100	100	100	100	100	100	100	70
2	152003	100	100	92	100	100	100	100	100	100	100	100	100	100	100	100	80
3	152004	48	52	52	76	68	100	100	100	100	100	100	100	100	100	100	50
4	152005	96	96	92	96	100	100	100	100	100	100	100	100	100	100	100	80
5	152008	76	80	88	80	92	100	100	100	100	100	100	100	100	100	100	70
6	152011	48	96	80	80	80	100	100	100	100	100	100	100	100	100	100	50
7	152013	80	48	32	68	64	100	100	100	100	100	100	100	100	100	100	50
8	152014	68	40	80	72	68	100	100	100	100	100	100	100	100	100	100	50
9	152016	64	68	68	48	60	100	100	100	100	100	100	100	100	100	100	50
10	152017	84	68	84	56	72	100	100	100	100	100	100	100	100	100	100	60
11	152018	68	76	88	72	100	100	100	100	100	100	100	100	100	100	100	50
12	152019	64	96	100	92	100	100	100	100	100	100	100	100	100	100	100	60
13	152021	92	76	78	78	68	100	100	100	100	100	100	100	100	100	100	60
14	152026	72	84	72	68	88	100	100	100	100	100	100	100	100	100	100	50
15	152032	42	42	58	58	80	100	100	100	100	100	100	100	100	100	100	50
16	152034	70	70	60	68	60	100	100	100	100	100	100	100	100	100	100	50
17	152035	76	80	92	88	76	100	100	100	100	100	100	100	100	100	100	50
18	152037	92	96	80	88	84	100	100	100	100	100	100	100	100	100	100	80
19	152039	60	84	52	76	68	100	100	100	100	100	100	100	100	100	100	50
20	152041	64	60	64	80	88	100	100	100	100	100	100	100	100	100	100	70
21	152042	74	74	60	64	96	100	100	100	100	100	100	100	100	100	100	50
22	152044	68	72	80	100	100	100	100	100	100	100	100	100	100	100	100	70
23	152045	64	76	72	84	52	100	100	100	100	100	100	100	100	100	100	60
24	152046	54	54	70	70	28	100	100	100	100	100	100	100	100	100	100	50
25	152047	80	84	88	64	92	100	100	100	100	100	100	100	100	100	100	60
26	152048	56	64	50	50	28	100	100	100	100	100	100	100	100	100	100	0
27	152050	40	28	48	72	80	100	100	100	100	100	100	100	100	100	100	50
28	152051	80	96	64	96	76	100	100	100	100	100	100	100	100	100	100	70
29	152052	64	48	64	76	76	100	100	100	100	100	100	100	100	100	100	50
30	152054	28	40	92	72	68	100	100	100	100	100	100	100	100	100	100	50
31	152055	68	100	88	88	92	100	100	100	100	100	100	100	100	100	100	50
32	152058	76	68	52	60	64	100	100	100	100	100	100	100	100	100	100	70
33	152059	52	68	76	52	68	100	100	100	100	100	100	100	100	100	100	50
34	152060	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
35	152062	52	56	84	76	80	100	100	100	100	100	100	100	100	100	100	50
36	152065	64	68	64	84	88	100	100	100	100	100	100	100	100	100	100	70
37	152068	36	64	56	64	50	100	100	100	100	100	100	100	100	100	100	50
38	152070	0	0	50	50	64	100	100	100	100	100	100	100	100	100	100	50
39	152074	64	84	88	64	88	100	100	100	100	100	100	100	100	100	100	70
40	152077	92	72	76	88	88	100	100	100	100	100	100	100	100	100	100	50
41	152079	64	68	60	52	72	100	100	100	100	100	100	100	100	100	100	50
42	152083	28	44	84	56	72	100	100	100	100	100	100	100	100	100	100	50
43	152301	60	72	68	76	80	100	100	100	100	100	100	100	100	100	100	50
44	152304	56	80	76	72	84	100	100	100	100	100	100	100	100	100	100	50
45	152305	34	34	60	40	84	100	100	100	100	100	100	100	100	100	100	50

46	162903	0	5	0	0	24	100	100	100	100	100	100	100	100	100	100	0
47	162904	28	44	50	50	52	100	100	100	100	100	100	100	100	100	100	50
48	162906	12	24	40	88	44	100	100	100	100	100	100	100	100	100	100	0
49	162907	12	52	40	4	24	100	100	100	100	100	100	100	100	100	100	0
50	162910	0	6	20	20	56	100	100	100	100	100	100	100	100	100	100	0
1	152033	100	70	76	68	96	100	100	100	100	100	100	100	100	100	100	50
2	152084	72	52	86	60	76	100	100	100	100	100	100	100	100	100	100	70
3	152064	94	80	80	70	72	100	100	100	100	100	100	100	100	100	100	50
4	152057	52	32	72	50	52	100	100	100	100	100	100	100	100	100	100	50
5	162911	A	12	36	32	36	100	100	100	100	100	100	100	100	100	100	50
6	152102	44	50	80	16	52	100	100	100	100	100	100	100	100	100	100	50
7	152071	64	36	72	70	72	100	100	100	100	100	100	100	100	100	100	50
8	152076	100	52	A	50	76	100	100	100	100	100	100	100	100	100	100	50
9	152303	32	26	88	36	64	100	100	100	100	100	100	100	100	100	100	50
10	152040	100	64	76	68	64	100	100	100	100	100	100	100	100	100	100	60
11	162912	A	6	52	32	38	100	100	100	100	100	100	100	100	100	100	50
12	152001	88	82	100	84	100	100	100	100	100	100	100	100	100	100	100	80
13	152049	40	20	68	17	A	100	100	100	100	100	100	100	90	100	90	0
14	152030	100	86	100	82	100	100	100	100	100	100	100	100	100	100	100	100
15	152006	100	94	96	100	92	100	100	100	100	100	100	100	100	100	100	90
16	152103	40	8	98	50	70	100	100	100	100	100	100	100	90	100	90	0
17	152078	24	10	56	16	76	100	100	100	100	100	100	100	100	100	100	50
18	152009	76	50	92	70	80	100	100	100	100	100	100	100	100	100	100	70
19	152015	68	50	84	58	80	100	100	100	100	100	100	100	80	100	80	50
20	152061	96	84	A	66	70	100	100	100	100	100	100	100	90	100	90	70
21	152302	52	A	76	52	72	100	100	100	100	100	100	100	80	100	80	0
22	152053	44	44	56	24	32	100	100	100	100	100	100	100	100	100	100	0
23	152043	72	32	52	28	56	100	100	100	100	100	100	100	100	100	100	0
24	152066	56	32	80	62	56	100	100	100	100	100	100	100	90	100	90	50
25	152029	96	60	72	70	68	100	100	100	100	100	100	100	100	100	100	50
26	162909	A	8	36	50	54	100	100	100	100	100	100	100	90	100	90	0
27	152056	68	26	88	55	60	100	100	100	100	100	100	100	100	100	100	50
28	152075	84	50	88	69	82	100	100	100	100	100	100	100	100	100	100	50
29	152080	20	34	92	56	72	100	100	100	100	100	100	100	90	100	90	50
30	152022	100	76	92	69	90	100	100	100	100	100	100	100	100	100	100	80
31	152063	88	58	96	64	80	100	100	100	100	100	100	100	100	100	100	50
32	152036	68	38	72	28	92	100	100	100	100	100	100	100	100	100	100	50
33	152069	100	70	88	78	80	100	100	100	100	100	100	100	100	100	100	80
34	162908	A	10	16	24	36	100	100	100	100	100	100	100	90	100	90	0
35	152028	100	66	94	86	92	100	100	100	100	100	100	100	100	100	100	70
36	152031	100	34	76	60	78	100	100	100	100	100	100	100	100	100	100	50
37	162901	A	16	52	12	20	100	100	100	100	100	100	100	100	100	100	50
38	152027	80	56	100	80	56	100	100	100	100	100	100	100	100	100	100	70
39	152023	84	52	96	84	94	100	100	100	100	100	100	100	100	100	100	70
40	152073	28	26	60	32	50	100	100	100	100	100	100	100	80	100	80	50
41	162902	A	22	60	16	56	100	100	100	100	100	100	100	80	100	80	50
42	152082	52	28	76	22	64	100	100	100	100	100	100	100	100	100	100	60
43	152020	84	32	80	62	78	100	100	100	100	100	100	100	100	100	100	50
44	152101	12	12	92	50	52	100	100	100	100	100	100	100	90	100	90	0
45	152081	10	12	44	8	32	100	100	100	100	100	100	100	80	100	80	50

46	162905	A	4	32	18	52	100	100	100	100	100	100	100	90	100	90	50
47	152012	96	60	80	74	76	100	100	100	100	100	100	100	100	100	100	70
48	152067	92	86	100	87	100	100	100	100	100	100	100	100	100	100	100	80
49	152038	84	56	98	74	88	100	100	100	100	100	100	100	100	100	100	50
50	152025	92	58	100	78	78	100	100	100	100	100	100	100	100	100	100	70

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Tutorial and $\geq C(7)$ grade in AU L – Level, C-Count																
	CIT					Assignment			Seminar		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	T1	T2	T3	T4	T5	
C	60	46	74	62	74	100	100	100	100	100	100	100	100	100	100	26
%	64.52	46.46	75.51	62	74.75	100	100	100	100	100	100	100	100	100	100	26
L	1	0	2	1	2	3	3	3	3	3	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C201.1	C201.2	C201.3	C201.4	C201.5
Obtained %	97.73	97.11	97.96	96.53	98.54
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C201:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C201.1	1	3	-		3	1.8	0	0.72	3	1.18
C201.2	0	3	-		3	1.2	0	0.48	3	0.98
C201.3	2	3	-		3	2.4	0	0.96	3	1.37
C201.4	1	-	3		3	1.6	0	0.64	3	1.11
C201.5	2	-	3		3	2.3	0	0.92	3	1.34
C201										1.2

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C201.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C201.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C201.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C201.4	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]
C201.5	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C201 = \frac{C201.1 + C201.2 + C201.3 + C201.4 + C201.5}{5} = 1.2$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6301 Digital Logic Circuits: C202
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
1	152060	100	100	100	100	96	100	100	100	100	100	50	100	100	100	100	100	100	100
2	152077	92	100	100	96	96	100	100	100	100	100	60	100	100	100	100	100	100	80
3	152044	52	100	48	68	64	100	100	100	100	100	70	100	100	100	100	100	100	70
4	152037	92	60	35	30	92	100	100	100	100	100	100	100	100	100	100	100	100	80
5	152305	84	76	85	66	96	100	100	100	100	100	30	50	100	100	100	100	100	50
6	152021	92	96	95	66	96	100	100	100	100	100	60	100	100	100	100	100	100	50
7	152050	72	52	30	23	96	100	100	100	100	100	70	100	100	100	100	100	100	0
8	152032	80	76	35	70	84	100	100	100	100	100	100	100	100	100	100	100	100	60
9	152016	92	60	60	55	96	100	100	100	100	100	100	100	100	100	100	100	100	50
10	152051	100	80	70	90	60	100	100	100	100	100	100	50	100	100	100	100	100	70
11	152019	92	100	100	100	96	100	100	100	100	100	60	100	100	100	100	100	100	80
12	152062	76	80	66	35	96	100	100	100	100	100	30	30	100	100	100	100	100	50
13	152048	64	76	40	17	32	100	100	100	100	100	80	100	100	100	100	100	100	0
14	152079	100	100	85	83	50	100	100	100	100	100	100	100	100	100	100	100	100	60
15	152013	96	56	70	40	96	100	100	100	100	100	0	100	100	100	100	100	100	50
16	152070	88	88	50	93	A	100	100	100	100	100	0	100	100	100	100	100	100	60
17	152011	100	88	80	76	96	100	100	100	100	100	0	80	100	100	100	100	100	80
18	152004	68	76	35	70	96	100	100	100	100	100	40	100	100	100	100	100	100	0
19	152039	76	76	100	88	80	100	100	100	100	100	80	100	100	100	100	100	100	60
20	152083	52	68	0	23	68	100	100	100	100	100	60	40	100	100	100	100	100	0
21	152017	72	76	100	60	92	100	100	100	100	100	90	100	100	100	100	100	100	70
22	152046	72	92	83	45	96	100	100	100	100	100	100	90	100	100	100	100	100	70
23	152059	100	96	55	33	96	100	100	100	100	100	100	30	100	100	100	100	100	50
24	152026	100	68	60	83	88	100	100	100	100	100	50	20	100	100	100	100	100	60
25	152052	92	76	60	86	96	100	100	100	100	100	80	100	100	100	100	100	100	70
26	152304	88	64	40	56	96	100	100	100	100	100	100	100	100	100	100	100	100	60
27	152047	80	100	90	50	96	100	100	100	100	100	0	100	100	100	100	100	100	50
28	152003	100	100	95	93	96	100	100	100	100	100	50	40	100	100	100	100	100	80
29	152045	100	88	70	37	96	100	100	100	100	100	50	30	100	100	100	100	100	50
30	152042	92	76	48	84	96	100	100	100	100	100	100	100	100	100	100	100	100	80
31	152065	100	80	35	30	96	100	100	100	100	100	100	100	100	100	100	100	100	50
32	152035	100	96	55	63	96	100	100	100	100	100	60	100	100	100	100	100	100	50
33	152074	92	80	90	50	96	100	100	100	100	100	50	100	100	100	100	100	100	70
34	152041	84	96	43	85	96	100	100	100	100	100	100	60	100	100	100	100	100	60
35	152034	96	72	40	60	92	100	100	100	100	100	90	100	100	100	100	100	100	60
36	152014	100	96	43	60	96	100	100	100	100	100	90	100	100	100	100	100	100	50
37	152058	100	96	80	66	92	100	100	100	100	100	30	100	100	100	100	100	100	50
38	152008	100	92	75	100	96	100	100	100	100	100	100	100	100	100	100	100	100	80
39	152054	96	72	27	45	92	100	100	100	100	100	50	100	100	100	100	100	100	60
40	152002	100	96	63	90	96	100	100	100	100	100	50	100	100	100	100	100	100	80
41	152005	100	100	70	86	96	100	100	100	100	100	50	10	100	100	100	100	100	80
42	152018	96	100	85	50	96	100	100	100	100	100	40	40	100	100	100	100	100	80
43	152301	76	56	36	30	96	100	100	100	100	100	20	20	100	100	100	100	100	50
44	152068	60	48	50	70	A	100	100	100	100	100	30	100	100	100	100	100	100	0
45	152055	100	96	80	75	75	100	100	100	100	100	60	100	100	100	100	100	100	70
46	162904	28	40	0	45	45	100	100	100	100	100	0	100	100	100	100	100	100	50
47	162907	64	48	45	40	40	100	100	100	100	100	100	40	100	100	100	100	100	50
48	162910	76	64	67	80	80	100	100	100	100	100	100	100	100	100	100	100	100	0
49	162903	44	88	25	40	40	100	100	100	100	100	100	10	100	100	100	100	100	0
50	162906	68	52	53	60	60	100	100	100	100	100	100	100	100	100	100	100	100	50
1.	152033	92	88	60	64	96	100	100	100	100	100	100	100	100	100	100	100	100	70
2.	152084	68	64	72	40	92	100	100	100	100	100	100	100	100	100	100	100	100	60

3.	152064	92	56	76	80	92	100	100	100	100	100	100	100	100	100	100	100	100	60
4.	152057	72	26	25	67	92	100	100	100	100	100	100	100	100	100	100	100	100	50
5.	152102	72	68	84	28	89	100	100	100	100	100	100	100	100	100	100	100	100	50
6.	152076	88	68	48	72	88	100	100	100	100	100	100	100	100	100	100	100	100	50
7.	152071	64	36	72	76	92	100	100	100	100	100	100	100	100	100	100	100	100	60
8.	152303	64	56	65	47	92	100	100	100	100	100	100	100	100	100	100	100	100	70
9.	152040	76	96	70	62	95	100	100	100	100	100	100	100	100	100	100	100	100	70
10.	152001	88	88	90	82	96	100	100	100	100	100	100	100	100	100	100	100	100	80
11.	152049	16	56	4	52	A	100	100	100	100	100	100	100	100	100	100	100	100	0
12.	152030	84	92	100	87	96	100	100	100	100	100	100	100	100	100	100	100	100	90
13.	152006	92	96	90	84	96	100	100	100	100	100	100	100	100	100	100	100	100	90
14.	152103	76	40	A	A	89	100	100	100	100	100	100	100	100	100	100	100	100	50
15.	152078	80	60	32	32	89	100	100	100	100	100	100	100	100	100	100	100	100	50
16.	152009	84	68	92	40	89	100	100	100	100	100	100	100	100	100	100	100	100	60
17.	152015	84	52	60	57	89	100	100	100	100	100	100	100	100	100	100	100	100	60
18.	152061	92	72	90	70	96	100	100	100	100	100	100	100	100	100	100	100	100	100
19.	152302	A	A	84	48	96	100	100	100	100	100	100	100	100	100	100	100	100	60
20.	152053	60	80	45	70	90	100	100	100	100	100	100	100	100	100	100	100	100	60
21.	152043	64	56	12	8	88	100	100	100	100	100	100	100	100	100	100	100	100	50
22.	152066	64	60	56	44	94	100	100	100	100	100	100	100	100	100	100	100	100	70
23.	152029	88	92	75	50	90	100	100	100	100	100	100	100	100	100	100	100	100	80
24.	152056	92	44	68	72	96	100	100	100	100	100	100	100	100	100	100	100	100	50
25.	152075	72	88	64	64	96	100	100	100	100	100	100	100	100	100	100	100	100	80
26.	152080	64	60	60	67	92	100	100	100	100	100	100	100	100	100	100	100	100	70
27.	152022	84	68	64	84	95	100	100	100	100	100	100	100	100	100	100	100	100	70
28.	152063	92	36	65	64	96	100	100	100	100	100	100	100	100	100	100	100	100	70
29.	152036	72	60	75	50	90	100	100	100	100	100	100	100	100	100	100	100	100	50
30.	152069	96	100	64	100	92	100	100	100	100	100	100	100	100	100	100	100	100	90
31.	152028	88	88	56	96	96	100	100	100	100	100	100	100	100	100	100	100	100	70
32.	152031	88	52	72	52	90	100	100	100	100	100	100	100	100	100	100	100	100	70
33.	152023	96	36	64	84	92	100	100	100	100	100	100	100	100	100	100	100	100	80
34.	152027	88	76	68	72	94	100	100	100	100	100	100	100	100	100	100	100	100	70
35.	152073	64	72	48	24	86	100	100	100	100	100	100	100	100	100	100	100	100	50
36.	152082	64	52	44	56	84	100	100	100	100	100	100	100	100	100	100	100	100	50
37.	152020	84	60	52	28	90	100	100	100	100	100	100	100	100	100	100	100	100	70
38.	152101	44	60	85	46	86	100	100	100	100	100	100	100	100	100	100	100	100	60
39.	152081	48	20	0	10	40	100	100	100	100	100	100	100	100	100	100	100	100	50
40.	152012	100	92	84	28	96	100	100	100	100	100	100	100	100	100	100	100	100	90
41.	152067	96	92	80	88	96	100	100	100	100	100	100	100	100	100	100	100	100	90
42.	152038	96	96	85	78	96	100	100	100	100	100	100	100	100	100	100	100	100	80
43.	152025	76	60	36	22	90	100	100	100	100	100	100	100	100	100	100	100	100	60
44.	162901	60	40	50	10	72	100	100	100	100	100	100	100	100	100	100	100	100	50
45.	162902	74	56	44	56	92	100	100	100	100	100	100	100	100	100	100	100	100	70
46.	162908	72	8	0	34	88	100	100	100	100	100	100	100	100	100	100	100	100	50
47.	162911	40	40	34	20	75	100	100	100	100	100	100	100	100	100	100	100	100	50
48.	162909	40	32	48	16	84	100	100	100	100	100	100	100	100	100	100	100	100	50
49.	162905	48	52	56	48	82	100	100	100	100	100	100	100	100	100	100	100	100	50
50.	162912	48	52	60	47	89	100	100	100	100	100	100	100	100	100	100	100	100	50

Benchmark: % of Students secured ≥60 marks in CITs, ≥80 in assignment, ≥65 in Seminar/Quiz, Tutorial and ≥C (7) grade in AU L – Level, C-Count																		
	CIT					Assignments			Survey		Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
C	88	71	57	52	91	100	100	100	100	100	74	86	100	100	100	100	100	41
%	88.89	71.72	57.58	52.53	93.81	100	100	100	100	100	74	86	100	100	100	100	100	41
L	3	2	0	0	3	3	3	3	3	3	2	3	3	3	3	3	3	0

Attainment Calculation:**Survey:**

Survey	C202.1	C202.2	C202.3	C202.4	C202.5
Obtained %	93.99	93.77	91.48	91.47	90.86
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C202:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C202.1	3	3	-	-	3	3	0	1.2	3	1.56
C202.2	2	3	-		3	2.4	0	0.96	3	1.37
C202.3	0	3	-	-	3	1.2	0	0.48	3	0.98
C202.4	0	-	3	2	3	1.1	0	0.44	3	0.95
C202.5	3	-	3	3	3	3	0	1.2	3	1.56
C202										1.28

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C202.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C202.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C202.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C202.4	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]
C202.5	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C202 = \frac{C202.1 + C202.2 + C202.3 + C202.4 + C202.5}{5} = 1.28$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6302 Electromagnetic Theory: C203
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
1	152060	100	95	100	95	100	100	100	100	100	100	90	100	100	100	100	90
2	152077	100	92	90	93	88	100	100	100	100	80	100	100	100	100	100	80
3	152044	28	16	75	83	76	90	100	100	100	80	100	100	100	100	100	70
4	152037	84	80	85	87	88	90	100	100	100	80	100	100	100	100	100	80
5	152305	68	4	70	65	64	100	100	100	80	70	100	100	90	80	80	60
6	152021	60	80	70	60	64	100	100	100	80	70	100	100	100	100	100	60
7	152050	60	24	87	70	60	100	100	100	90	70	100	100	100	100	100	60
8	152032	60	16	60	63	60	100	90	90	90	40	90	100	100	100	100	50
9	152016	64	12	60	93	72	100	100	100	100	80	100	100	100	100	100	50
10	152051	83	5	80	93	60	100	100	100	80	80	100	100	90	100	100	60
11	152019	100	95	100	95	96	100	100	100	100	90	90	100	100	100	100	100
12	152062	73	60	75	53	64	100	100	100	100	90	100	100	100	100	100	80
13	152048	14	0	10	7	60	100	100	100	90	40	80	100	90	100	100	0
14	152079	76	40	70	65	60	100	90	100	100	70	100	100	100	100	100	90
15	152013	52	20	30	15	64	100	100	90	90	70	100	100	100	100	100	80
16	152070	35	70	25	80	68	100	100	100	90	60	100	100	90	100	100	50
17	152011	90	90	100	95	80	100	100	100	100	80	90	100	100	100	100	100
18	152004	60	35	70	70	A	100	100	100	100	90	100	100	100	100	100	60
19	152039	76	72	75	93	64	100	100	100	100	80	100	100	90	100	100	70
20	152083	16	0	80	67	40	90	90	100	100	80	100	100	90	100	100	0
21	152017	87	40	80	75	80	100	90	100	100	80	100	100	100	100	100	90
22	152046	80	28	67	70	80	80	100	100	90	80	100	100	100	100	100	60
23	152059	87	45	95	90	100	100	100	100	100	90	100	100	100	100	100	50
24	152026	A	A	93	85	60	100	100	100	100	70	90	100	100	100	100	70
25	152052	76	52	75	77	64	100	100	100	100	80	90	100	100	100	100	80
26	152304	96	36	90	70	84	100	100	100	100	80	90	100	100	100	100	80
27	152047	76	40	87	70	80	100	100	100	100	80	100	90	100	100	100	80
28	152003	97	100	100	95	96	100	100	100	100	90	90	100	100	100	100	90
29	152045	92	76	100	90	84	100	100	100	100	90	100	100	100	100	100	80
30	152042	93	65	97	70	72	100	100	100	100	80	100	100	100	100	100	80
31	152065	68	32	70	75	88	100	100	100	100	80	100	100	100	100	100	80
32	152035	96	68	87	65	60	100	100	100	100	80	100	100	100	100	100	70
33	152074	70	70	93	90	100	100	100	100	100	90	90	100	100	100	100	80
34	152041	84	48	100	55	96	100	100	100	100	90	100	100	100	100	100	80
35	152034	77	45	90	23	72	100	100	100	100	90	100	100	100	100	100	50
36	152014	90	35	87	65	68	100	100	100	100	90	90	100	100	100	100	80
37	152058	72	44	70	80	84	100	100	100	100	90	100	100	100	100	100	80
38	152008	100	88	100	85	100	100	100	100	100	90	100	100	100	100	100	90
39	152054	80	32	90	83	64	100	100	100	100	80	100	100	100	100	100	70
40	152002	100	70	100	87	96	100	100	100	100	90	100	100	100	100	100	80
41	152005	100	90	100	93	100	100	100	100	100	100	100	100	100	100	100	80
42	152018	68	32	75	63	72	100	100	100	100	80	100	100	100	100	100	0
43	152301	60	35	80	75	72	90	100	100	100	80	90	100	100	100	100	50
44	152068	70	40	60	77	A	90	100	100	80	70	100	90	100	100	90	50
45	152055	92	76	87	95	96	100	100	100	100	90	100	100	100	100	100	70

46.	162904	12	20	43	55	60	100	100	90	80	80	100	80	90	80	90	0
47.	162907	52	16	47	25	52	100	90	90	80	80	100	80	90	90	80	0
48.	162910	2	0	45	40	60	90	90	90	80	80	100	80	100	80	100	0
49.	162903	2	0	0	2	40	90	100	90	80	70	90	80	100	80	80	50
50.	162906	16	8	53	20	40	90	90	90	80	80	90	80	90	90	90	0
1.	152033	72	96	56	64	76	90	80	90	90	90	90	90	90	90	90	70
2.	152084	24	0	60	84	24	80	90	90	90	90	80	90	90	90	90	50
3.	152064	100	28	84	72	56	80	90	80	90	90	80	90	90	80	90	70
4.	152057	20	8	64	48	16	80	80	90	90	80	80	80	90	80	90	60
5.	152102	24	24	56	56	24	80	80	90	90	80	80	80	90	80	90	0
6.	152076	20	16	96	100	64	80	80	90	90	80	80	80	90	80	90	60
7.	152071	48	0	40	60	80	80	80	90	90	80	80	80	90	80	90	50
8.	152303	48	0	40	64	8	80	90	100	90	80	80	80	80	90	90	50
9.	152040	96	68	100	100	96	90	90	90	90	80	80	90	80	90	90	70
10.	152001	88	44	100	92	84	90	80	90	90	80	80	90	80	90	90	80
11.	152049	16	0	0	52	0	80	80	90	90	80	80	90	80	90	90	0
12.	152030	70	90	100	100	100	90	80	90	90	80	90	90	80	90	90	80
13.	152006	100	80	100	100	100	90	80	90	90	80	90	90	90	80	90	70
14.	152103	16	32	A	A	52	90	90	80	90	80	90	80	90	80	90	50
15.	152078	8	0	16	32	16	80	90	80	90	80	80	80	80	80	90	60
16.	152009	84	0	72	96	32	80	90	80	90	80	80	80	80	80	90	60
17.	152015	24	8	84	84	52	80	90	80	90	80	80	80	80	80	90	80
18.	152061	100	56	92	100	88	90	90	80	90	80	80	80	90	80	90	70
19.	152302	A	A	52	60	64	80	90	90	90	90	80	80	80	90	90	50
20.	152053	72	8	0	48	8	80	90	80	90	90	80	80	80	90	90	70
21.	152043	8	24	0	80	60	80	90	80	90	90	80	80	80	90	90	60
22.	152066	72	16	100	72	64	80	90	80	90	80	80	80	80	90	90	60
23.	152029	84	68	80	100	72	80	90	80	90	80	80	80	80	90	90	0
24.	152056	68	0	56	56	72	80	90	80	90	80	80	80	80	90	90	50
25.	152075	96	0	100	76	64	80	90	80	90	80	80	80	80	90	90	70
26.	152080	64	12	96	80	64	80	90	80	90	80	80	80	80	90	90	60
27.	152022	100	40	76	96	68	90	90	80	90	80	90	90	90	80	90	60
28.	152063	92	80	96	100	84	90	90	80	90	80	90	90	80	80	90	70
29.	152036	8	0	60	44	50	80	90	80	90	80	90	80	80	80	90	50
30.	152069	100	0	100	84	100	80	90	80	90	80	90	80	90	80	90	70
31.	152028	72	12	96	72	72	80	90	80	90	80	90	80	90	80	90	70
32.	152031	64	16	100	80	52	80	90	80	90	100	80	80	90	80	90	50
33.	152023	88	72	100	96	96	80	90	80	90	80	80	80	90	80	90	60
34.	152027	A	A	32	36	68	80	90	80	90	80	80	80	90	80	90	50
35.	152073	4	0	80	80	64	80	90	80	90	80	80	80	80	80	90	0
36.	152082	16	0	76	64	56	80	90	80	90	90	80	90	80	90	90	60
37.	152020	44	0	56	52	72	80	90	80	90	90	80	80	90	90	90	70
38.	152101	24	0	88	40	50	80	90	80	90	90	80	80	90	80	90	50
39.	152081	0	0	48	40	24	80	90	80	90	80	90	80	90	80	90	0
40.	152012	100	60	92	92	100	90	90	80	90	80	80	80	90	80	90	80
41.	152067	100	44	100	96	96	90	90	80	90	80	80	90	80	80	90	90
42.	152038	100	16	96	80	72	90	90	80	90	80	80	90	90	80	90	0
43.	152025	A	A	24	100	84	90	80	80	90	80	90	90	80	80	90	50
44.	162901	8	0	8	28	52	80	80	80	90	80	80	80	80	80	90	50
45.	162902	16	4	52	48	64	80	80	80	90	80	80	80	80	80	90	50

46.	162908	0	0	0	8	8	80	80	80	90	80	80	80	80	80	90	50
47.	162911	0	0	52	16	12	80	80	80	90	80	80	80	80	80	90	0
48.	162909	8	0	60	56	76	80	80	80	90	80	80	80	80	80	90	50
49.	162905	8	0	48	96	56	80	80	80	90	80	80	80	80	80	90	0
50.	162912	16	0	0	32	56	80	80	80	90	80	80	80	80	80	90	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C(7)$ grade in AU L – Level, C-Count																
	CIT					Assignments			Survey	Quiz	Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
C	62	26	71	72	73	100	100	100	100	97	100	100	100	100	100	45
%	64.58	27.08	71.72	72.73	74.49	100	100	100	100	97	100	100	100	100	100	45
L	1	0	2	2	2	3	3	3	3	3	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C203.1	C203.2	C203.3	C203.4	C203.5
Obtained %	96.05	94.62	93.39	96.47	95.26
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C203:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C203.1	1	3	-	-	3	1.8	0	0.72	3	1.18
C203.2	0	3	-	-	3	1.2	0	0.48	3	0.98
C203.3	2	3	-	-	3	2.4	0	0.96	3	1.37
C203.4	2	-	3	-	3	2.3	0	0.92	3	1.34
C203.5	2	-	-	-	3	2	0	0.8	3	1.24
C203										1.22

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C203.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C203.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C203.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C203.4	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]
C203.5	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.2*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C203 = \frac{C203.1 + C203.2 + C203.3 + C203.4 + C203.5}{5} = 1.22$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:GE6351 Environmental Science and Engineering: C204
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO3	CO4	CO1	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	152060	97	100	100	97	96	100	100	100	100	100	100	100	100
2	152077	93	90	100	97	92	100	100	100	100	100	100	100	50
3	152044	67	80	80	67	80	100	100	100	100	100	100	100	70
4	152037	93	95	100	90	96	100	100	100	100	100	100	100	70
5	152305	77	70	100	93	96	90	100	100	100	100	100	100	50
6	152021	83	90	70	63	80	90	100	90	100	100	100	100	0
7	152050	40	85	40	33	88	80	100	80	100	100	100	100	50
8	152032	57	60	80	57	96	80	100	80	100	100	100	100	60
9	152016	83	95	90	87	92	90	100	90	100	100	100	100	70
10	152051	73	35	75	57	96	90	100	90	100	100	100	100	70
11	152019	87	80	100	93	100	90	100	90	100	100	100	100	90
12	152062	60	65	85	47	92	90	100	90	100	100	100	100	50
13	152048	77	85	60	27	96	90	100	90	100	100	100	100	50
14	152079	87	85	90	50	96	90	100	90	100	100	100	100	70
15	152013	73	85	100	87	92	90	100	90	100	100	100	100	50
16	152070	90	95	85	83	100	90	100	90	100	100	100	100	70
17	152011	60	35	85	77	96	90	100	90	100	100	100	100	70
18	152004	30	30	65	40	0	80	80	80	100	100	100	100	50
19	152039	47	45	100	90	96	70	80	70	100	100	100	100	50
20	152083	0	10	50	13	24	50	70	50	100	100	100	100	0
21	152017	50	70	90	60	80	70	80	70	100	100	100	100	70
22	152046	80	80	75	57	88	80	90	80	100	100	100	100	70
23	152059	83	100	90	93	0	90	90	90	100	100	100	100	70
24	152026	A	A	100	80	100	90	100	90	100	100	100	100	70
25	152052	87	55	90	83	100	90	100	90	100	100	100	100	70
26	152304	43	130	90	90	96	90	100	90	100	100	100	100	60
27	152047	70	95	65	77	96	90	100	90	100	100	100	100	50
28	152003	90	90	100	97	100	90	100	90	100	100	100	100	100
29	152045	77	65	100	93	96	90	100	90	100	100	100	100	70
30	152042	93	90	90	73	96	90	100	90	100	100	100	100	80
31	152065	50	80	100	73	96	90	100	90	100	100	100	100	70
32	152035	87	100	100	73	88	90	100	90	100	100	100	100	80
33	152074	80	75	100	80	96	90	100	90	100	100	100	100	90
34	152041	57	50	100	97	92	90	100	90	100	100	100	100	80
35	152034	73	85	100	70	96	90	100	90	100	100	100	100	50
36	152014	87	90	90	93	96	90	100	90	100	100	100	100	80
37	152058	93	100	100	97	96	90	100	90	100	100	100	100	70
38	152008	93	90	100	93	96	90	100	90	100	100	100	100	80
39	152054	A	A	70	57	96	90	100	90	100	100	100	100	50
40	152002	97	90	100	93	100	90	100	90	100	100	100	100	90
41	152005	77	90	95	93	96	90	100	90	100	100	100	100	90
42	152018	70	55	100	80	88	90	100	90	100	100	100	100	60
43	152301	60	65	95	80	96	80	100	80	100	100	100	100	70
44	152068	63	80	90	60	0	90	90	90	100	100	100	100	70
45	152055	43	100	100	93	96	80	70	80	100	100	100	100	50

46.	162904	43	30	65	27	84	80	80	80	100	100	100	100	0
47.	162907	30	70	80	47	76	70	90	70	100	100	100	100	50
48.	162910	37	20	60	43	92	70	90	70	100	100	100	100	0
49.	162903	7	10	10	20	20	70	90	70	100	100	100	100	0
50.	162906	33	20	55	47	96	70	90	70	100	100	100	100	60
1.	152033	84	56	66	82	92	100	96	96	90	100	60	80	80
2.	152084	28	16	36	20	60	100	89	92	80	70	30	80	50
3.	152064	52	72	56	56	84	100	98	92	90	80	80	90	70
4.	152057	60	0	64	80	80	100	96	91	80	70	50	80	60
5.	152102	40	28	36	24	56	100	96	94	80	80	30	80	60
6.	152076	60	48	56	44	72	100	96	94	80	80	30	80	70
7.	152071	80	48	72	68	88	100	98	82	80	80	80	90	60
8.	152303	60	40	28	24	88	100	78	92	90	70	70	90	60
9.	152040	68	60	76	56	82	100	90	9	90	80	80	80	60
10.	152001	84	56	64	100	88	100	92	96	90	90	60	90	50
11.	152049	86	54	A	A	32	100	96	72	80	60	40	80	0
12.	152030	88	52	68	80	88	100	98	98	90	90	90	80	70
13.	152006	98	62	72	96	92	100	98	98	100	90	90	90	80
14.	152103	24	56	72	92	84	100	86	86	70	70	80	90	50
15.	152078	48	8	48	56	68	100	98	78	60	80	70	90	50
16.	152009	70	58	68	32	76	100	98	96	100	80	70	80	70
17.	152015	60	40	68	64	80	100	98	86	80	80	60	70	60
18.	152061	95	85	72	96	84	100	98	96	70	80	90	90	80
19.	152302	86	54	44	56	84	100	98	92	80	90	80	90	60
20.	152053	48	8	40	16	52	100	89	9	70	70	40	80	70
21.	152043	36	24	44	4	64	100	92	75	60	80	30	70	0
22.	152066	80	68	78	86	84	100	92	92	70	80	50	90	60
23.	152029	68	40	72	48	80	100	96	98	90	80	60	80	80
24.	152056	68	56	52	48	60	100	95	96	80	70	40	70	70
25.	152075	88	68	70	78	96	100	98	82	90	80	80	80	70
26.	152080	88	60	70	94	92	100	98	96	90	80	90	90	90
27.	152022	76	48	56	44	92	100	98	96	90	90	80	90	50
28.	152063	92	8	52	88	84	100	96	96	90	80	70	70	70
29.	152036	80	40	68	80	88	100	92	94	80	80	50	90	60
30.	152069	87	73	68	76	96	100	98	94	100	90	90	90	70
31.	152028	84	44	64	60	96	100	96	82	90	90	80	80	80
32.	152031	88	52	68	76	92	100	94	90	100	80	90	70	70
33.	152023	88	52	68	84	92	100	86	94	80	90	50	80	80
34.	152027	36	24	52	48	72	100	92	96	90	90	40	80	50
35.	152073	38	26	12	32	52	100	92	90	80	80	30	80	80
36.	152082	44	24	12	32	64	100	84	94	60	70	40	60	50
37.	152020	86	52	44	56	84	100	84	80	80	90	80	90	60
38.	152101	40	40	40	32	64	100	92	94	60	80	50	70	50
39.	152081	20	0	16	4	52	100	92	82	70	80	30	70	50
40.	152012	92	76	32	92	72	100	98	94	80	90	80	80	60
41.	152067	92	72	96	88	92	100	98	98	90	90	90	70	70
42.	152038	92	49	68	76	96	100	96	92	90	90	90	100	80
43.	152025	84	54	60	64	72	100	96	92	90	80	70	90	80
44.	162901	68	44	60	40	76	100	92	96	90	80	30	70	0
45.	162902	38	26	56	44	80	100	96	98	90	90	30	80	60

46.	162908	A	A	0	20	76	100	86	92	70	60	30	70	70
47.	162911	20	4	48	32	54	100	94	94	70	60	10	80	50
48.	162909	26	14	48	12	56	100	96	96	70	80	20	70	0
49.	162905	A	A	60	48	80	100	86	96	60	70	10	80	0
50.	162912	40	28	8	16	56	100	92	94	60	70	A	80	0

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count													
	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO3	CO4	CO1	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
C	65	46	71	57	87	93	97	88	94	97	73	99	50
%	67.71	47.92	71.72	57.58	87	93	97	88	94	97	73.74	99	50
L	1	0	2	0	3	3	3	3	3	3	2	3	0

Attainment Calculation:

Survey:

Survey	C204.1	C204.2	C204.3	C204.4	C204.5
Obtained %	98.55	96.27	96.7	95.86	96.86
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C204:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C204.1	1	-	-	2		1.2	0	0.48	3	0.98
C204.2	0	3	-	-		0.9	0	0.36	3	0.89
C204.3	2	3	3	-		2.3	0	0.92	3	1.34
C204.4	0	3	3	-		0.9	0	0.36	3	0.89
C204.5	3	-	-	3		3	0	1.2	3	1.56
C204										1.13

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C204.1	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C204.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C204.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C204.4	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C204.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C204 = \frac{C204.1 + C204.2 + C204.3 + C204.4 + C204.5}{5} = 1.13$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: C6202 Electronic Devices and Circuits: C205
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2	CO5	CO3	CO4	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
1	152060	96	76	86	90	92	100	100	100	100	100	100	80	100	100	100	100	100	90
2	152077	76	64	63	45	72	100	100	100	100	100	100	100	100	100	100	100	100	90
3	152044	60	48	23	25	84	100	100	100	100	100	100	100	100	100	100	100	100	60
4	152037	68	64	73	85	88	100	100	100	100	100	A	90	100	100	100	100	100	80
5	152305	32	24	43	60	40	100	100	100	100	100	100	100	100	100	100	100	100	60
6	152021	56	48	47	75	76	100	100	100	100	100	100	100	100	100	100	100	100	70
7	152050	56	16	26	50	68	100	100	100	100	100	100	90	100	100	100	100	100	50
8	152032	76	36	33	35	56	100	100	100	100	100	100	90	100	100	100	100	100	50
9	152016	76	28	50	75	80	100	100	100	100	100	100	100	100	100	100	100	100	70
10	152051	68	36	47	70	64	100	100	100	100	100	100	100	100	100	100	100	100	70
11	152019	72	44	80	80	88	100	100	100	100	100	100	90	100	100	100	100	100	90
12	152062	56	44	60	60	72	100	100	100	100	100	100	90	100	100	100	100	100	50
13	152048	72	28	50	75	24	100	100	100	100	100	100	100	100	100	100	100	100	50
14	152079	40	60	43	80	60	100	100	100	100	100	100	90	100	100	100	100	100	80
15	152013	64	44	43	60	56	100	100	100	100	100	100	100	100	100	100	100	100	50
16	152070	A	A	40	65	44	100	100	100	100	A	100	80	100	100	100	100	100	50
17	152011	72	80	47	75	80	100	100	100	100	100	100	80	100	100	100	100	100	80
18	152004	72	28	50	75	24	100	100	100	100	100	100	50	100	100	100	100	100	50
19	152039	56	60	23	40	64	100	100	100	100	100	100	100	100	100	100	100	100	80
20	152083	60	40	20	10	40	100	100	100	100	100	100	100	100	100	100	100	100	50
21	152017	48	24	30	45	64	100	100	100	100	100	100	100	100	100	100	100	100	80
22	152046	72	28	30	40	56	100	100	100	100	100	100	100	100	100	100	100	100	80
23	152059	80	40	43	60	80	100	100	100	100	100	100	100	100	100	100	100	100	70
24	152026	68	32	63	50	64	100	100	100	100	100	100	100	100	100	100	100	100	80
25	152052	64	48	40	65	88	100	100	100	100	100	100	80	100	100	100	100	100	80
26	152304	72	44	63	45	72	100	100	100	100	100	100	60	100	100	100	100	100	50
27	152047	88	44	40	65	72	100	100	100	100	100	100	40	100	100	100	100	100	70
28	152003	76	52	60	80	92	100	100	100	100	100	100	50	100	100	100	100	100	80
29	152045	A	A	46	70	52	100	100	100	100	100	100	80	100	100	100	100	100	50
30	152042	80	28	67	75	72	100	100	100	100	100	100	100	100	100	100	100	100	70
31	152065	52	48	60	60	72	100	100	100	100	100	100	80	100	100	100	100	100	50
32	152035	64	44	40	65	64	100	100	100	100	100	100	90	100	100	100	100	100	80
33	152074	76	60	53	65	84	100	100	100	100	100	100	100	100	100	100	100	100	80
34	152041	64	56	56	60	64	100	100	100	100	100	100	100	100	100	100	100	100	60
35	152034	68	32	40	60	80	100	100	100	100	100	100	80	100	100	100	100	100	50
36	152014	64	36	47	70	72	100	100	100	100	100	100	50	100	100	100	100	100	60
37	152058	60	40	53	85	80	100	100	100	100	100	100	60	100	100	100	100	100	90
38	152008	80	64	50	60	88	100	100	100	100	100	100	60	100	100	100	100	100	80
39	152054	56	44	53	65	56	100	100	100	100	100	100	60	100	100	100	100	100	50
40	152002	76	80	40	75	84	100	100	100	100	100	100	80	100	100	100	100	100	80
41	152005	88	56	63	75	84	100	100	100	100	100	100	60	100	100	100	100	100	80
42	152018	80	20	46	70	56	100	100	100	100	100	100	70	100	100	100	100	100	50
43	152301	56	44	53	45	84	100	100	100	100	100	100	60	100	100	100	100	100	70
44	152068	60	44	17	50	A	100	100	100	100	100	100	40	100	100	100	100	100	70
45	152055	80	64	53	60	72	100	100	100	100	100	100	80	100	100	100	100	100	70
46	152033	72	48	57	75	88	100	100	100	100	100	100	50	100	100	100	100	100	80
47	152084	76	24	53	60	68	100	100	100	100	100	100	90	100	100	100	100	100	50
48	152064	52	60	50	70	76	100	100	100	100	100	100	70	100	100	100	100	100	60
49	152057	64	8	23	45	76	100	100	100	100	100	100	50	100	100	100	100	100	50
50	152102	28	0	50	65	64	100	100	100	100	100	100	100	100	100	100	100	100	50
51	152076	32	28	40	65	92	100	100	100	100	100	A	100	100	100	100	100	100	70
52	152071	68	64	47	70	76	100	100	100	100	100	100	100	100	100	100	100	100	50

53	152303	A	A	40	75	72	100	100	100	100	100	100	80	100	100	100	100	100	50
54	152040	76	64	54	80	80	100	100	100	100	100	100	90	100	100	100	100	100	70
55	152001	60	40	67	70	76	100	100	100	100	100	100	40	100	100	100	100	100	70
56	152049	20	4	30	20	52	100	100	100	100	100	A	70	100	100	100	100	100	0
57	152030	76	88	76	80	88	100	100	100	100	100	100	80	100	100	100	100	100	70
58	152006	92	60	63	75	96	90	100	100	100	100	100	70	100	100	100	100	100	90
59	152103	A	A	67	50	68	100	100	100	100	100	100	50	100	100	100	100	100	50
60	152078	16	8	47	70	80	100	100	100	100	100	100	60	100	100	100	100	100	80
61	152009	48	28	43	70	80	100	100	100	100	100	100	70	100	100	100	100	100	70
62	152015	48	28	40	65	60	100	100	100	100	100	100	60	100	100	100	100	100	70
63	152061	68	60	57	65	84	100	100	100	100	100	A	60	100	100	100	100	100	90
64	152302	40	20	26	45	76	100	100	100	100	100	A	90	100	100	100	100	100	60
65	152053	44	12	30	30	68	100	100	100	100	100	100	60	100	100	100	100	100	50
66	152043	20	0	40	65	52	100	100	100	100	100	100	100	100	100	100	100	100	50
67	152066	A	A	43	95	80	100	100	100	100	100	100	40	100	100	100	100	100	60
68	152029	68	32	40	85	76	100	100	100	100	100	100	100	100	100	100	100	100	50
69	152056	56	20	41	75	40	100	100	100	100	100	A	100	100	100	100	100	100	50
70	152075	64	36	30	50	56	100	100	100	100	100	100	40	100	100	100	100	100	80
71	152080	52	48	50	70	80	100	100	100	100	100	A	80	100	100	100	100	100	60
72	152022	A	A	43	75	68	100	100	100	100	100	100	60	100	100	100	100	100	60
73	152063	84	56	73	60	88	100	100	100	100	100	100	100	100	100	100	100	100	50
74	152036	A	A	50	70	80	100	100	100	100	100	100	50	100	100	100	100	100	60
75	152069	A	A	70	75	84	100	100	100	100	100	100	50	100	100	100	100	100	70
76	152028	56	48	50	60	68	100	100	100	100	100	100	80	100	100	100	100	100	60
77	152031	68	32	60	50	60	100	100	100	100	100	100	90	100	100	100	100	100	50
78	152023	60	40	66	60	72	100	100	100	100	100	100	80	100	100	100	100	100	70
79	152027	64	52	37	70	44	100	100	100	100	100	100	90	100	100	100	100	100	70
80	152073	48	12	66	55	24	100	100	100	100	100	100	60	100	100	100	100	100	50
81	152082	32	4	39	65	76	100	100	100	100	100	100	70	100	100	100	100	100	60
82	152020	A	A	43	85	84	100	100	100	100	100	100	100	100	100	100	100	100	60
83	152101	A	A	48	65	60	100	100	100	100	100	100	90	100	100	100	100	100	60
84	152081	16	0	20	45	44	100	100	100	100	100	100	80	100	100	100	100	100	60
85	152012	68	32	50	60	92	100	100	100	100	100	100	60	100	100	100	100	100	70
86	152067	92	64	90	70	76	100	100	100	100	100	100	70	100	100	100	100	100	80
87	152038	72	60	60	70	84	100	100	100	100	100	A	60	100	100	100	100	100	80
88	152025	84	28	49	75	80	100	100	100	100	100	100	100	100	100	100	100	100	70
89	162910	12	8	43	60	52	100	100	100	100	100	100	100	100	60	100	100	100	50
90	162906	36	20	50	75	52	100	100	100	A	100	100	100	100	100	100	100	100	50
91	162903	44	12	7	10	4	100	100	100	100	100	100	100	100	100	100	100	100	50
92	162904	56	44	43	60	72	100	100	100	100	100	100	80	100	100	100	100	100	50
93	162907	64	36	17	83	24	100	100	100	A	100	100	100	100	100	100	100	100	70
94	162911	36	12	16	40	56	100	100	100	100	0	100	70	100	100	100	100	100	50
95	162912	52	48	20	55	68	100	100	100	100	100	100	70	100	100	100	100	100	60
96	162909	44	8	16	25	8	100	100	100	100	100	100	70	100	100	100	100	100	60
97	162908	56	24	17	15	20	100	100	100	100	100	100	60	100	100	100	100	100	50
98	162901	56	48	46	50	32	100	100	100	100	100	100	70	100	100	100	100	100	50
99	162902	60	40	42	80	64	100	100	100	100	100	100	40	100	100	100	100	100	50
100	162905	24	12	56	40	56	100	100	100	100	100	100	50	100	100	100	100	100	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count																		
	CIT					Assignments			Seminar		Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2	CO5	CO3	CO4	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
C	54	18	22	72	72	100	100	100	98	98	92	70	100	99	100	100	100	46
%	60	20	22	72	72.73	100	100	100	100	98.99	100	70	100	99	100	100	100	46
L	1	0	0	2	2	3	3	3	3	3	3	2	3	3	3	3	3	0

Attainment Calculation:**Survey:**

Survey	C205.1	C205.2	C205.3	C205.4	C205.5
Obtained %	97.93	97.1	95.04	96.24	95.65
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C205:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C205.1	1	3	-	-	3	1.8	0	0.72	3	1.18
C205.2	0	3	3	-	3	1.2	0	0.48	3	0.98
C205.3	0	3	-	3	3	1.2	0	0.48	3	0.98
C205.4	2	-	-	2	3	2.2	0	0.88	3	1.3
C205.5	2	-	3	-	3	2.3	0	0.92	3	1.34
C205										1.16

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C205.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C205.2	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Seminars + 0.2*Tutorial]
C205.3	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Quiz + 0.2*Tutorial]
C205.4	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.2*Tutorial]
C205.5	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C205 = \frac{C205.1 + C205.2 + C205.3 + C205.4 + C205.5}{5} = 1.16$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6303 Linear Integrated Circuits and Applications: C206
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2	CO4	CO1	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	152060	95	100	88	96	96	90	90	90	80	90	90	90	80
2	152077	90	70	96	88	96	90	90	90	90	80	80	80	50
3	152044	82	50	40	64	48	90	90	90	80	90	40	90	70
4	152037	88	80	96	92	96	90	90	90	90	80	80	80	80
5	152305	56	64	80	88	64	90	90	90	80	90	90	90	50
6	152021	80	72	90	82	68	90	90	90	90	80	80	80	0
7	152050	40	60	52	68	60	90	90	90	80	90	90	90	50
8	152032	68	48	62	66	52	90	90	90	90	80	70	80	90
9	152016	90	70	60	60	72	90	90	90	80	90	80	90	70
10	152051	62	38	66	78	88	90	90	90	90	80	90	80	60
11	152019	70	90	94	86	96	90	90	90	80	90	80	90	0
12	152062	60	72	86	94	96	90	90	90	90	80	70	80	80
13	152048	72	80	10	34	32	90	90	90	80	90	90	90	70
14	152079	44	64	84	76	96	90	90	90	90	80	80	80	70
15	152013	48	60	96	84	72	90	90	90	80	90	70	90	50
16	152070	70	50	90	80	52	90	90	90	90	80	80	80	0
17	152011	68	72	82	86	96	90	90	90	80	90	90	90	0
18	152004	62	70	76	72	56	90	90	90	90	80	70	80	80
19	152039	60	72	90	82	52	90	90	90	80	90	80	90	80
20	152083	28	36	62	38	72	90	90	90	90	80	90	80	80
21	152017	62	54	88	72	80	90	90	90	80	90	80	90	90
22	152046	58	66	84	80	64	90	90	90	90	80	70	80	0
23	152059	72	76	76	84	80	90	90	90	80	90	70	90	70
24	152026	64	72	85	93	92	90	90	90	90	80	80	80	50
25	152052	62	66	82	86	96	90	90	90	80	90	70	90	50
26	152304	38	62	80	88	88	90	90	90	90	80	80	80	70
27	152047	61	67	88	80	96	90	90	90	80	90	80	90	70
28	152003	78	90	98	90	92	90	90	90	90	80	70	80	70
29	152045	AB	AB	90	93	80	90	90	90	80	90	90	90	70
30	152042	80	84	86	82	96	90	90	90	90	80	80	80	60
31	152065	70	78	90	94	96	90	90	90	80	90	70	90	50
32	152035	80	84	86	94	88	90	90	90	90	80	80	80	70
33	152074	80	88	94	86	96	90	90	90	80	90	90	90	70
34	152041	64	68	AB	AB	96	90	90	90	90	80	80	80	50
35	152034	70	74	90	94	68	90	90	90	80	90	90	90	50
36	152014	68	76	86	94	80	90	90	90	90	80	70	80	70
37	152058	66	78	90	94	96	90	90	90	80	90	80	90	60
38	152008	100	96	94	90	96	90	90	90	90	80	70	80	0
39	152054	38	62	90	82	96	90	90	90	80	90	80	90	70
40	152002	98	98	94	90	96	90	90	90	90	80	90	80	80
41	152005	95	96	86	98	96	90	90	90	80	90	80	90	70
42	152018	72	80	80	88	52	90	90	90	90	80	70	80	50
43	152301	38	62	82	90	72	90	90	90	80	90	80	90	70
44	152068	70	62	70	86	64	90	90	90	90	80	90	80	80
45	152055	96	88	90	94	96	90	90	90	80	90	80	90	50

46.	162904	30	42	70	78	48	90	90	90	90	80	70	80	70
47.	162907	22	30	68	72	64	90	90	90	80	90	80	90	80
48.	162910	30	42	50	62	56	90	90	90	90	80	70	80	90
49.	162903	12	48	30	34	40	90	90	90	80	90	80	90	60
50.	162906	32	60	70	78	64	90	90	90	90	80	70	80	50
1.	152033	75	67	85	95	88	96	96	92	90	80	90	80	70
2.	152084	90	37	56	66	76	92	89	86	80	70	80	80	0
3.	152064	85	67	75	73	76	92	92	82	90	80	80	90	70
4.	152057	35	67	70	53	60	91	96	78	80	70	70	80	70
5.	152102	50	27	65	53	60	94	96	82	80	80	70	80	90
6.	152076	40	63	85	50	84	94	96	86	80	80	70	80	70
7.	152071	60	87	70	80	68	82	85	90	80	80	80	90	50
8.	152303	A	A	20	30	84	92	78	92	90	A	80	90	70
9.	152040	65	60	70	80	80	94	90	78	90	80	80	80	70
10.	152001	100	17	85	93	76	96	92	96	90	90	90	90	80
11.	152049	25	17	25	26	48	72	96	96	A	60	60	80	80
12.	152030	100	77	70	67	88	98	96	82	90	90	80	80	80
13.	152006	100	67	65	93	88	98	96	98	100	90	100	90	50
14.	152103	A	A	80	67	88	86	86	86	70	70	70	90	60
15.	152078	50	23	65	50	56	78	80	78	60	80	60	90	80
16.	152009	85	37	70	73	84	96	96	82	70	80	70	80	70
17.	152015	50	30	70	70	68	86	82	90	80	80	80	70	70
18.	152061	A	A	80	87	88	96	98	92	70	A	80	90	70
19.	152302	50	33	45	40	84	92	84	86	80	90	70	90	70
20.	152053	60	43	60	43	56	90	89	90	70	70	80	80	60
21.	152043	25	30	40	27	44	75	92	72	60	80	80	70	70
22.	152066	65	93	50	73	68	92	92	76	70	A	80	100	100
23.	152029	80	80	95	54	56	98	96	92	100	A	100	80	50
24.	152056	55	47	60	80	76	96	95	86	80	70	70	70	80
25.	152075	60	53	70	77	88	82	92	85	90	A	80	80	80
26.	152080	75	80	85	90	72	96	98	86	90	80	70	100	90
27.	152022	70	80	65	77	80	96	98	92	90	90	70	90	50
28.	152063	55	87	85	77	76	96	96	92	90	A	90	70	50
29.	152036	65	43	65	75	88	94	92	85	80	80	80	90	60
30.	152069	75	63	85	93	84	94	98	98	100	90	100	100	80
31.	152028	75	63	64	92	76	82	96	96	90	90	80	80	80
32.	152031	65	50	75	83	72	90	94	92	80	80	80	70	70
33.	152023	80	73	75	83	68	94	86	86	80	90	90	80	70
34.	152027	70	77	70	90	80	96	92	82	100	90	90	80	90
35.	152073	45	60	75	37	56	90	92	90	80	80	80	80	60
36.	152082	30	33	75	53	64	94	84	83	60	70	A	60	80
37.	152020	90	87	90	70	88	80	84	90	80	90	60	90	70
38.	152101	A	A	50	50	56	94	92	92	60	80	80	70	80
39.	152081	20	20	20	30	44	82	92	89	70	80	70	70	70
40.	152012	75	73	56	92	84	94	94	90	80	90	80	80	80
41.	152067	80	90	90	90	84	98	98	98	90	90	80	70	70
42.	152038	80	93	90	80	88	92	96	98	90	90	100	100	70
43.	152025	65	27	85	55	68	92	96	92	90	A	90	90	70
44.	162901	55	27	60	50	60	96	92	79	90	80	80	70	70
45.	162902	50	17	80	64	84	98	96	86	90	90	90	80	70

46.	162908	15	17	60	30	32	92	86	82	70	60	70	70	60
47.	162911	A	A	50	27	52	94	94	86	70	60	80	80	50
48.	162909	50	0	70	53	36	96	90	92	60	80	A	70	50
49.	162905	10	17	70	50	28	96	80	80	70	70	A	80	50
50.	162912	33	35	50	40	72	98	94	76	60	70	A	80	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count													
	CIT					Assignments			Seminar		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2	CO4	CO1	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
C	61	61	83	75	78	97	99	93	93	90	92	99	63
%	64.21	64.21	83	75	78	97	99	93	93.94	96.77	95.83	99	63
L	1	1	3	2	2	3	3	3	3	3	3	3	1

Attainment Calculation:

Survey:

Survey	C206.1	C206.2	C206.3	C206.4	C206.5
Obtained %	96.04	94.99	93.95	93.12	93.48
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C206:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C206.1	1	3	-	3		1.6	1	1.24	3	1.59
C206.2	1	3	3	-		1.6	1	1.24	3	1.59
C206.3	3	3	-	-		3	1	1.8	3	2.04
C206.4	2	-	3	-		2.2	1	1.48	3	1.78
C206.5	2	-	-	3		2.2	1	1.48	3	1.78
C206										1.76

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C206.1	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C206.2	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C206.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C206.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C206.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C206 = \frac{C206.1 + C206.2 + C206.3 + C206.4 + C206.5}{5} = 1.76$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EC6361 Electronics Lab: C207
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	96	90	100		90	100		90	100		90	90		90	90	100
2	152077	96	90	90		90	90		90	90		90	90		90	90	100
3	152044		90	100		90	90		90	90	96	90	90		90	90	100
4	152037	94	90	90		90	90		90	90		90	90		90	90	100
5	152305		90	90		90	90	70	90	90		90	90		90	90	90
6	152021		90	90	98	90	90		90	90		90	90		90	90	100
7	152050		90	90		90	100		90	90	90	90	90		90	90	100
8	152032		90	90		90	100		90	90		90	90	96	90	90	100
9	152016		90	90		90	90		90	90	70	90	90		90	90	90
10	152051	95	90	90		90	90		90	90		90	90		90	90	100
11	152019		90	100		90	100		90	90	90	90	90		90	90	100
12	152062	75	90	100		90	100		90	90		90	90		90	90	100
13	152048		90	90		90	90		90	90	80	90	90		90	90	90
14	152079	80	90	90		90	90		90	90		90	90		90	90	100
15	152013	92	90	90		90	90		90	90		90	90		90	90	90
16	152070	85	90	90		90	90		90	90		90	90		90	90	100
17	152011		90	90		90	90	95	90	90		90	90		90	90	100
18	152004		90	90		90	100		90	100		90	90	92	90	90	100
19	152039		90	90		90	90	89	90	90		90	90		90	90	100
20	152083		90	90		90	90		90	90		90	90	90	90	90	100
21	152017		90	90		90	90		90	90		90	90	96	90	90	100
22	152046		90	90		90	90		90	90	90	90	90		90	90	90
23	152059		90	100		90	90		90	90		90	90	98	90	90	100
24	152026		90	100		90	100		90	100	98	90	90		90	90	100
25	152052	94	90	100		90	100		90	100		90	90		90	90	100
26	152304		90	100		90	100	85	90	100		90	90		90	90	100
27	152047	90	90	100		90	100		90	100		90	90		90	90	100
28	152003		90	100	92	90	100		90	100		90	90		90	90	100
29	152045	90	90	100		90	100		90	100		90	90		90	90	100
30	152042		90	100		90	100		90	100	95	90	90		90	90	100
31	152065		90	100		90	100		90	100	91	90	90		90	90	100
32	152035		90	100		90	100	92	90	100		90	90		90	90	100
33	152074		90	100	96	90	100		90	100		90	90		90	90	100
34	152041		90	90		90	90		90	90	93	90	90		90	90	100
35	152034		90	90		90	90		90	90	96	90	90		90	90	100
36	152014		90	90		90	90		90	90	96	90	90		90	90	100
37	152058	95	90	90		90	90		90	90		90	90		90	90	100
38	152008		90	90		90	90		90	90		90	90	90	90	90	100
39	152054		90	90		90	90		90	90		90	90	90	90	90	100
40	152002		90	90	98	90	90		90	90		90	90		90	90	100
41	152005		90	90		90	90		90	90		90	90	99	90	90	100
42	152018	92	90	90		90	90		90	90		90	90		90	90	100
43	152301		90	90		90	90		90	90		90	90	93	90	90	100
44	152068	90	90	90		90	90		90	90		90	90		90	90	90

45.	152055		90	90		90	90		90	90		90	90	95	90	90	100
46.	162904		90	90		90	90	92	90	90		90	90		90	90	100
47.	162907		90	90		90	90		90	90	98	90	90		90	90	100
48.	162910		90	90	90	90	90		90	90		90	90		90	90	100
49.	162903		90	90		90	90		90	90		90	90	70	90	90	100
50.	162906	92	90	90		90	90		90	90		90	90		90	90	90
1.	152033	97	80	100		90	100		80	90		80	90		80	80	100
2.	152084		70	100		80	100		70	80	92	70	80		70	80	90
3.	152064		80	90	95	80	90		80	90		70	80		80	80	100
4.	152057		70	90		80	90		80	90		80	90	93	80	80	100
5.	152102		80	90		80	90	92	80	70		70	90		70	70	90
6.	152076		60	90		70	80		70	70	90	60	90		70	80	90
7.	152071		80	90		70	80		80	90		70	80	93	80	80	100
8.	152303		80	90		80	80		70	80		80	90	93	80	80	100
9.	152040		80	90		90	90		90	90	97	90	90		80	90	100
10.	152001		80	90		90	80	97	90	80		90	90		80	80	100
11.	152049		70	70	90	70	70		70	90		70	80		70	80	90
12.	152030	97	80	90		90	90		80	90		90	80		90	80	100
13.	152006		80	90		80	90		80	90	97	90	70		90	90	100
14.	152103		70	80		70	80		60	90	90	70	80		70	80	90
15.	152078		80	70		80	80		80	90	97	80	80		80	90	100
16.	152009		80	90		80	90		80	90	95	80	80		80	90	100
17.	152015		80	70	93	80	90		80	80		80	80		80	80	100
18.	152061		80	70		80	90		80	80	97	80	80		80	80	100
19.	152302		80	70	97	80	80		70	80		80	90		70	80	100
20.	152053		70	90		70	80		70	90	92	70	80		70	80	90
21.	152043		70	80		60	90		60	70		60	90	91	60	70	90
22.	152066		70	80	93	70	90		70	70		70	80		70	80	100
23.	152029	95	80	80		80	80		70	70		80	80		80	80	100
24.	152056	93	70	90		70	90		70	90		70	80		70	80	100
25.	152075	96	80	90		80	80		80	90		80	80		80	80	100
26.	152080	96	80	90		80	90		80	90		80	90		80	90	100
27.	152022	96	80	90		80	80		80	90		80	90		80	90	100
28.	152063	97	80	90		80	90		80	80		80	90		80	70	100
29.	152036		70	80		70	80	90	60	70		60	90		60	70	100
30.	152069		80	90	95	80	90		80	90		80	80		70	90	100
31.	152028		80	80		70	90		70	90		80	70	97	80	90	100
32.	152031		80	80		70	70		80	80	96	80	80		70	80	100
33.	152023		70	90		80	80		80	90	93	80	90		80	80	100
34.	152027		80	80		80	70		80	80	96	70	90		70	80	100
35.	152073		70	80		70	70		70	90	92	80	80		80	80	100
36.	152082		70	70		70	70		70	90	91	70	80		70	80	90
37.	152020	95	80	70		80	80		80	90		80	70		70	90	90
38.	152101		70	80		70	70		80	90	90	80	90		70	80	100
39.	152081		70	70	95	70	80		70	90		70	70		70	90	100
40.	152012	95	80	80		70	90		80	90		80	80		70	80	100
41.	152067		80	90		80	90	97	80	90		80	90		80	90	100
42.	152038		80	80		70	80	96	80	80		80	70		80	90	100
43.	152025		80	80		70	90	95	80	80		80	80		80	70	100
44.	162901		80	90		70	100		80	90	92	70	80		80	80	100

45.	162902		80	90		70	100	94	70	100		80	80		80	90	100
46.	162908		60	70		60	90		60	80		60	80	90	60	80	90
47.	162911		70	70	91	70	90		70	80		70	80		70	70	90
48.	162909		70	80		80	90		70	80		70	70	93	70	80	100
49.	162905		70	70		80	90		80	80	95	80	80		70	80	100
50.	162912	96	70	80		80	90		80	70		80	90		80	90	100

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	26	100	100	13	100	100	13	100	100	30	100	100	18	100	100	100
C	25	98	89	13	98	94	12	96	93	29	96	94	17	97	94	100
%	96.15	98	89	100	98	94	92.31	96	93	96.67	96	94	94.44	97	94	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C207.1	C207.2	C207.3	C207.4	C207.5
Obtained %	96.01	94.76	95.16	92.86	91.46
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C207:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C207.1	3	3	3	3	3	3	3	3
C207.2	3	3	3	3	3	3	3	3
C207.3	3	3	3	3	3	3	3	3
C207.4	3	3	3	3	3	3	3	3
C207.5	3	3	3	3	3	3	3	3
C207								3

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C207.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C207.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C207.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C207.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C207.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C207 = \frac{C207.1 + C207.2 + C207.3 + C207.4 + C207.5}{5} = 3$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6311 Linear and Digital Integrated Circuits Lab: C208
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060		90	90	95	90	90		90	90		90	90		90	90	100
2	152077		90	90		90	90	95	90	90		90	90		90	90	100
3	152044		90	90		90	90		90	90		90	90		90	90	100
4	152037		90	90		90	90		90	90	95	90	90		90	90	90
5	152305		90	90	95	90	90		90	90		90	90		90	90	90
6	152021		90	90		90	90	95	90	90		90	90	95	90	90	90
7	152050		90	90		90	90		90	90		90	90	95	90	90	90
8	152032	90	90	90		90	90		90	90		90	90		90	90	100
9	152016		90	90	95	90	90		90	90		90	90		90	90	90
10	152051		90	90		90	90	90	90	90		90	90		90	90	100
11	152019		90	90	90	90	90		90	90		90	90		90	90	90
12	152062		90	90		90	90		90	90	90	90	90		90	90	90
13	152048		90	90		90	90		90	90		90	90	90	90	90	90
14	152079		90	90		90	90	95	90	90		90	90		90	90	100
15	152013		90	90	90	90	90		90	90		90	90		90	90	90
16	152070	95	90	90		90	90		90	90		90	90		90	90	90
17	152011		90	90		90	90	95	90	90		90	90		90	90	90
18	152004		90	90		90	90		90	90	95	90	90		90	90	90
19	152039		90	90		90	90		90	90		90	90	95	90	90	90
20	152083		90	90		90	90	95	90	90		90	90		90	90	90
21	152017		90	90	95	90	90		90	90		90	90		90	90	100
22	152046	95	90	90		90	90		90	90		90	90		90	90	100
23	152059		90	90	95	90	90		90	90		90	90		90	90	90
24	152026		90	90		90	90	95	90	90		90	90		90	90	90
25	152052		90	90		90	90		90	90	95	90	90		90	90	90
26	152304		90	90		90	90		90	90		90	90	95	90	90	90
27	152047		90	90		90	90	95	90	90		90	90		90	90	90
28	152003		90	90	95	90	90		90	90		90	90		90	90	90
29	152045	95	90	90		90	90		90	90		90	90		90	90	90
30	152042		90	90	90	90	90		90	90		90	90		90	90	100
31	152065		90	90		90	90	95	90	90		90	90		90	90	100
32	152035		90	90	95	90	90		90	90		90	90		90	90	90
33	152074	95	90	90		90	90		90	90		90	90		90	90	100
34	152041		90	90		90	90		90	90	95	90	90		90	90	90
35	152034		90	90		90	90		90	90		90	90	95	90	90	90
36	152014		90	90		90	90	95	90	90		90	90		90	90	100
37	152058	95	90	90		90	90		90	90		90	90		90	90	100
38	152008		90	90	95	90	90		90	90		90	90		90	90	100
39	152054		90	90		90	90		90	90	95	90	90		90	90	100
40	152002		90	90	95	90	90		90	90		90	90		90	90	100
41	152005	95	90	90		90	90		90	90		90	90		90	90	100
42	152018		90	90		90	90		90	90		90	90	95	90	90	100
43	152301		90	90		90	90	95	90	90		90	90		90	90	90
44	152068		90	90	95	90	90		90	90		90	90		90	90	90

45.	152055		90	90	95	90	90		90	90		90	90		90	90	100
46.	162904	95	90	90		90	90		90	90		90	90		90	90	90
47.	162907		90	90		90	90	95	90	90		90	90		90	90	90
48.	162910		90	90		90	90		90	90	95	90	90		90	90	90
49.	162903		90	90		90	90		90	90		90	90	95	90	90	90
50.	162906		90	90	95	90	90		90	90		90	90		90	90	100
1.	152033		90	90		90	90		90	90	96	90	90		90	90	90
2.	152084		90	90		90	90		90	90		90	90	95	90	90	90
3.	152064		90	90		90	90		90	90	92	90	90		90	90	100
4.	152057		90	90		90	90		90	90		90	90	92	90	90	100
5.	152102		90	90		90	90		90	90	91	90	90		90	90	100
6.	152076		90	90		90	90		90	90		90	90	90	90	90	100
7.	152071		90	90		90	90	90	90	90		90	90		90	90	100
8.	152303		90	90		90	90		90	90	94	90	90		90	90	100
9.	152040		90	90		90	90		90	90		90	90	95	90	90	90
10.	152001		90	90	97	90	90		90	90		90	90		90	90	90
11.	152049		90	90		90	90		90	90	90	90	90		90	90	100
12.	152030	98	90	90		90	90		90	90		90	90		90	90	90
13.	152006		90	90		90	90		90	90	98	90	90		90	90	100
14.	152103	90	90	90		90	90		90	90		90	90		90	90	100
15.	152078	91	90	90		90	90		90	90		90	90		90	90	100
16.	152009		90	90		90	90		90	90		90	90	93	90	90	90
17.	152015		90	90		90	90		90	90		90	90	91	90	90	100
18.	152061	96	90	90		90	90		90	90		90	90		90	90	100
19.	152302		90	90		90	90		90	90	96	90	90		90	90	100
20.	152053	94	90	90		90	90		90	90		90	90		90	90	100
21.	152043		90	90		90	90	90	90	90		90	90		90	90	100
22.	152066		90	90		90	90		90	90	93	90	90		90	90	100
23.	152029		90	90		90	90		90	90		90	90	93	90	90	100
24.	152056		90	90	95	90	90		90	90		90	90		90	90	100
25.	152075		90	90	96	90	90		90	90		90	90		90	90	100
26.	152080		90	90		90	90		90	90		90	90	96	90	90	100
27.	152022	95	90	90		90	90		90	90		90	90		90	90	100
28.	152063		90	90		90	90		90	90		90	90	98	90	90	100
29.	152036		90	90		90	90		90	90		90	90	90	90	90	100
30.	152069	95	90	90		90	90		90	90		90	90		90	90	100
31.	152028		90	90		90	90		90	90	95	90	90		90	90	90
32.	152031		90	90		90	90		90	90	96	90	90		90	90	90
33.	152023		90	90	93	90	90		90	90		90	90		90	90	90
34.	152027	96	90	90		90	90		90	90		90	90		90	90	100
35.	152073		90	90		90	90		90	90	92	90	90		90	90	100
36.	152082		90	90		90	90		90	90	91	90	90		90	90	100
37.	152020	93	90	90		90	90		90	90		90	90		90	90	100
38.	152101		90	90	92	90	90		90	90		90	90		90	90	90
39.	152081		90	90	92	90	90		90	90		90	90		90	90	100
40.	152012	93	90	90		90	90		90	90		90	90		90	90	90
41.	152067		90	90	95	90	90		90	90		90	90		90	90	90
42.	152038		90	90		90	90	98	90	90		90	90		90	90	100
43.	152025		90	90	92	90	90		90	90		90	90		90	90	100
44.	162901		90	90		90	90	91	90	90		90	90		90	90	90

45.	162902		90	90		90	90	94	90	90		90	90		90	90	100
46.	162908	92	90	90		90	90		90	90		90	90		90	90	100
47.	162911		90	90	90	90	90		90	90		90	90		90	90	90
48.	162909		90	90		90	90		90	90		90	90	92	90	90	90
49.	162905		90	90		90	90	92	90	90		90	90		90	90	100
50.	162912		90	90		90	90	96	90	90		90	90		90	90	100

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	19	100	100	24	100	100	19	100	100	19	100	100	19	100	100	100
C	19	100	100	24	100	100	19	100	100	19	100	100	19	100	100	100
%	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C208.1	C208.2	C208.3	C208.4	C208.5
Obtained %	96.06	93.97	93.79	94.62	94.19
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C208:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C208.1	3	3	3	3	3	3	3	3
C208.2	3	3	3	3	3	3	3	3
C208.3	3	3	3	3	3	3	3	3
C208.4	3	3	3	3	3	3	3	3
C208.5	3	3	3	3	3	3	3	3
C208								3

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C208.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C208.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C208.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C208.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C208.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C208 = \frac{C208.1 + C208.2 + C208.3 + C208.4 + C208.5}{5} = 3$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: MA6459 Numerical Methods: C209

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	T1	T2	T3	T4	T5	
1	152065	84	68	76	90	76	100	100	100	100	100	100	100	100	100	100	70
2	152035	A	A	A	72	56	100	100	100	100	100	100	100	100	100	100	80
3	152074	60	88	92	90	88	100	100	100	100	100	100	100	100	100	100	80
4	152041	80	80	66	94	56	100	100	100	100	100	100	100	100	100	100	70
5	152034	76	64	80	94	64	100	100	100	100	100	100	100	100	100	100	70
6	152014	80	80	88	90	94	100	100	100	100	100	100	100	100	100	100	70
7	162907	28	72	50	66	52	100	100	100	100	100	100	100	100	100	100	50
8	152058	92	88	80	86	86	100	100	100	100	100	100	100	100	100	100	80
9	152008	100	84	88	92	92	100	100	100	100	100	100	100	100	100	100	90
10	152054	68	60	62	70	60	100	100	100	100	100	100	100	100	100	100	50
11	152002	100	88	90	100	82	100	100	100	100	100	100	100	100	100	100	90
12	152005	100	100	80	100	86	100	100	100	100	100	100	100	100	100	100	90
13	152018	100	76	92	76	68	100	100	100	100	100	100	100	100	100	100	90
14	152301	84	56	86	78	54	100	100	100	100	100	100	100	100	100	100	50
15	152068	80	68	90	70	50	100	100	100	100	100	100	100	100	100	100	70
16	152055	96	100	90	94	76	100	100	100	100	100	100	100	100	100	100	70
17	152033	92	84	86	96	82	100	100	100	100	100	100	100	100	100	100	70
18	152084	72	72	60	72	50	100	100	100	100	100	100	100	100	100	100	70
19	152064	96	88	82	92	86	100	100	100	100	100	100	100	100	100	100	80
20	152057	76	72	68	68	62	100	100	100	100	100	100	100	100	100	100	50
21	162911	28	32	32	70	12	100	100	100	100	100	100	100	100	100	100	50
22	152102	72	72	60	80	50	100	100	100	100	100	100	100	100	100	100	70
23	152071	92	72	84	96	62	100	100	100	100	100	100	100	100	100	100	70
24	152076	56	68	50	72	14	100	100	100	100	100	100	100	100	100	100	80
25	152303	64	36	54	76	50	100	100	100	100	100	100	100	100	100	100	50
26	152040	76	80	74	82	76	100	100	100	100	100	100	100	100	100	100	90
27	162912	8	52	40	20	52	100	100	100	100	100	100	100	100	100	100	50
28	152001	88	80	80	92	68	100	100	100	100	100	100	100	100	100	100	80
29	152049	24	76	52	A	6	100	100	100	100	100	100	100	100	100	100	0
30	152030	96	92	94	100	90	100	100	100	100	100	100	100	100	100	100	70
31	152006	100	96	96	98	78	100	100	100	100	100	100	100	100	100	100	80
32	152103	72	48	68	0	1	100	100	100	100	100	100	100	100	100	100	50
33	162909	44	64	8	52	14	100	100	100	100	100	100	100	100	100	100	50
34	152060	100	100	100	100	86	100	100	100	100	100	100	100	100	100	100	0
35	152077	96	100	89	78	50	100	100	100	100	100	100	100	100	100	100	80
36	152044	98	98	A	100	78	100	100	100	100	100	100	100	100	100	100	90
37	152037	100	95	98	100	94	100	100	100	100	100	100	100	100	100	100	80
38	152305	82	A	55	14	44	100	100	100	100	100	100	100	100	100	100	50
39	152021	96	97	78	88	72	100	100	100	100	100	100	100	100	100	100	70
40	152032	100	88	75	90	34	100	100	100	100	100	100	100	100	100	100	70
41	152050	92	55	60	84	20	100	100	100	100	100	100	100	100	100	100	70
42	152016	88	82	58	68	38	100	100	100	100	100	100	100	100	100	100	70
43	152051	100	87	99	98	94	100	100	100	100	100	100	100	100	100	100	80
44	152019	100	96	84	88	76	100	100	100	100	100	100	100	100	100	100	90
45	152062	56	53	60	74	36	100	100	100	100	100	100	100	100	100	100	60

46	152048	26	52	59	14	0	100	100	100	100	100	90	100	100	100	100	50
47	152079	96	56	68	69	62	100	100	100	100	100	100	100	100	100	100	80
48	152013	88	56	77	94	A	100	100	100	100	100	100	100	100	100	100	90
49	152070	72	57	37	A	A	100	100	100	100	100	100	100	100	100	100	70
50	162910	70	16	34	30	42	100	100	100	100	100	80	80	80	90	100	50
51	152011	100	88	58	98	73	100	100	100	100	100	100	100	100	100	100	90
52	162906	32	18	44	39	0	100	100	100	100	100	90	90	80	80	100	0
53	152004	84	60	77	A	0	100	100	100	100	100	100	100	100	100	100	70
54	152039	80	60	64	76	A	100	100	100	100	100	100	100	100	100	100	80
55	152083	12	56	32	72	0	100	100	100	100	100	90	100	100	100	100	50
56	152017	100	91	76	90	16	100	100	100	100	100	100	100	100	100	100	90
57	152046	98	83	68	75	12	100	100	100	100	100	100	100	100	100	100	70
58	152059	82	77	73	66	50	100	100	100	100	100	100	100	100	100	100	70
59	152026	98	A	91	90	56	100	100	100	100	100	100	100	100	100	100	90
60	152052	98	98	89	91	84	100	100	100	100	100	100	100	100	100	100	90
61	152304	100	85	82	86	36	100	100	100	100	100	100	100	100	100	100	80
62	152047	90	98	93	82	72	100	100	100	100	100	100	100	100	100	100	80
63	152003	100	86	91	76	82	100	100	100	100	100	100	100	100	100	100	80
64	152045	96	86	87	A	50	100	100	100	100	100	100	100	100	100	100	80
65	162903	36	36	34	24	0	100	100	100	100	100	90	90	90	90	100	50
66	152042	100	92	83	100	68	100	100	100	100	100	100	100	100	100	100	60
67	162904	50	26	50	72	20	100	100	100	100	100	80	90	90	90	100	60
68	152078	30	38	56	50	60	100	100	100	100	100	90	90	90	80	80	50
69	152009	80	84	52	80	66	100	100	100	100	100	90	90	90	100	80	70
70	152015	66	90	90	76	64	100	100	100	100	100	95	95	95	100	80	80
71	152061	80	92	88	98	0	100	100	100	100	100	95	95	95	100	80	0
72	152302	40	60	60	58	38	100	100	100	100	100	90	90	90	80	100	70
73	152053	40	40	52	64	4	100	100	100	100	100	80	80	80	80	80	50
74	152043	60	64	66	54	38	100	100	100	100	100	85	85	85	80	80	60
75	152066	70	82	54	80	82	100	100	100	100	100	80	80	85	100	100	80
76	152029	98	98	50	94	66	100	100	100	100	100	95	95	80	100	100	80
77	152056	60	68	70	80	30	100	100	100	100	100	80	80	95	100	80	70
78	152075	98	90	68	92	74	100	100	100	100	100	95	95	80	100	80	90
79	152080	86	50	58	60	30	100	100	100	100	100	95	95	95	100	100	70
80	152022	80	92	84	100	70	100	100	100	100	100	95	95	95	100	100	90
81	152063	100	64	52	74	66	100	100	100	100	100	85	85	95	100	100	100
82	152036	80	44	46	94	66	100	100	100	100	100	85	85	85	100	100	50
83	152069	100	92	72	96	72	100	100	100	100	100	95	95	95	100	100	60
84	152028	80	96	80	80	44	100	100	100	100	100	95	95	95	100	80	50
85	152031	70	86	74	60	64	100	100	100	100	100	95	95	95	80	100	60
86	152027	70	90	62	90	62	100	100	100	100	100	95	95	95	100	100	70
87	152023	80	84	50	56	44	100	100	100	100	100	85	85	85	80	80	80
88	152073	20	40	35	54	44	100	100	100	100	100	85	85	85	80	80	50
89	152082	50	50	50	20	50	100	100	100	100	100	80	80	80	80	80	50
90	152020	70	74	64	72	62	100	100	100	100	100	95	95	95	100	100	70
91	152101	50	50	56	0	20	100	100	100	100	100	90	90	90	80	80	50
92	152081	20	24	32	44	20	100	100	100	100	100	80	80	80	80	80	50
93	152012	98	98	86	92	50	100	100	100	100	100	95	95	95	100	80	90
94	152067	96	96	68	100	80	100	100	100	100	100	95	95	95	100	100	90
95	152038	80	84	92	100	100	100	100	100	100	100	95	95	95	100	100	80

96	152025	90	98	80	90	72	100	100	100	100	100	95	95	95	100	100	60
97	162908	20	44	96	44	8	100	100	100	100	100	80	80	80	80	80	50
98	162901	40	44	54	22	24	100	100	100	100	100	80	80	80	80	80	50
99	162902	20	32	38	52	30	100	100	100	100	100	80	80	80	80	80	50
100	162905	40	60	58	26	24	100	100	100	100	100	85	85	85	80	80	60

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count																
	CIT					Assignment			Seminar		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	T1	T2	T3	T4	T5	
C	76	70	65	75	47	100	100	100	100	100	100	100	100	100	100	63
%	76	71.43	65.66	78.13	48.45	100	100	100	100	100	100	100	100	100	100	63
L	2	2	1	2	0	3	3	3	3	3	3	3	3	3	3	1

Attainment Calculation:

Survey:

Survey	C209.1	C209.2	C209.3	C209.4	C209.5
Obtained %	98.26	98.76	98.85	98.32	97.9
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment –C209:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C209.1	2	3	-		3	2.4	1	1.56	3	1.85
C209.2	2	3	-		3	2.4	1	1.56	3	1.85
C209.3	1	3	-		3	1.8	1	1.32	3	1.66
C209.4	2	-	3		3	2.3	1	1.52	3	1.82
C209.5	0	-	3		3	0.9	1	0.96	3	1.37
C209										1.71

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C209.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C209.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C209.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C209.4	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]
C209.5	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C209 = \frac{C209.1 + C209.2 + C209.3 + C209.4 + C209.5}{5} = 1.71$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6401 Electrical Machines I: C210
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	Q1	Q2	T1	T2	T3	T4	T5	
1	152060	96	98	96	94	84	90	95	95	95	90	90	95	95	95	90	80
2	152077	96	80	A	86	72	90	90	90	95	90	90	95	90	95	90	70
3	152044	96	78	A	62	52	90	90	90	95	90	90	90	90	95	90	70
4	152037	96	90	90	90	90	90	90	95	95	90	90	90	95	95	90	80
5	152305	68	52	64	50	70	85	95	95	95	90	85	90	90	90	90	60
6	152021	92	90	70	64	74	90	95	95	95	90	90	95	90	90	90	70
7	152050	68	78	32	78	70	90	95	95	95	90	90	95	90	95	90	70
8	152032	84	92	52	58	68	90	95	95	95	90	90	95	90	90	90	80
9	152016	80	88	50	86	76	90	95	95	95	90	90	95	90	95	90	50
10	152051	88	88	84	90	78	90	90	95	95	90	90	90	95	95	90	80
11	152019	96	96	94	90	86	90	95	95	95	80	90	95	95	95	90	80
12	152062	84	90	50	70	34	90	95	95	95	70	90	95	95	95	90	60
13	152048	60	80	50	60	56	95	95	95	95	80	90	95	95	95	90	50
14	152079	76	92	74	50	54	90	95	95	95	70	90	95	95	90	90	70
15	152013	88	58	58	78	A	95	95	95	95	70	90	90	95	95	80	0
16	152070	92	A	A	82	A	95	90	90	95	70	90	90	90	95	80	80
17	152011	96	98	60	90	88	90	90	90	95	80	95	90	90	95	90	80
18	152004	68	78	64	A	34	90	95	90	90	70	90	90	90	95	90	0
19	152039	92	74	80	80	A	90	95	95	90	70	90	90	95	95	80	50
20	152083	72	38	24	50	30	90	95	90	90	80	90	80	90	90	90	0
21	152017	96	84	82	68	32	90	95	95	95	80	95	90	95	95	90	70
22	152046	94	76	76	78	60	90	95	95	95	90	95	80	95	95	90	70
23	152059	84	A	50	64	64	90	95	95	90	90	95	90	90	90	90	50
24	152026	96	A	78	62	76	90	95	95	90	90	95	90	90	90	90	80
25	152052	88	82	92	84	88	90	95	95	90	90	95	90	90	95	95	90
26	152304	88	84	60	60	76	90	95	95	90	90	95	90	80	90	90	80
27	152047	84	68	80	86	72	90	95	95	80	90	95	90	90	95	90	80
28	152003	96	96	64	90	88	90	95	95	80	90	95	90	80	90	90	90
29	152045	96	92	62	A	61	90	95	95	80	90	95	90	80	80	90	70
30	152042	92	90	76	92	76	90	95	95	80	90	95	90	90	95	90	80
31	162910	52	40	40	40	70	70	95	90	80	80	95	80	70	80	90	0
32	162906	56	62	50	38	62	70	90	90	80	90	90	90	75	80	90	0
33	162903	12	22	28	20	24	70	80	90	70	60	95	70	70	70	80	0
34	162904	64	52	52	50	62	80	80	95	80	80	90	90	80	90	90	50
35	152065	84	92	66	86	74	95	95	95	95	95	95	95	95	95	95	80
36	152035	A	A	A	82	88	A	A	90	95	95	A	A	90	95	95	60
37	152074	96	66	A	A	90	95	95	90	95	95	95	90	90	90	95	90
38	152041	68	88	66	82	66	95	95	95	95	95	95	95	95	95	95	60
39	152034	96	78	66	78	70	95	95	95	95	95	95	95	95	95	95	60
40	152014	84	72	66	64	80	95	95	95	90	95	90	90	95	90	95	90
41	152058	96	86	92	74	80	95	95	95	90	95	95	95	95	90	95	70
42	152008	92	88	92	88	90	95	95	95	95	95	95	95	95	95	95	80
43	152054	80	72	60	82	68	95	95	95	95	90	95	90	95	95	95	70
44	152002	92	90	86	88	86	95	95	95	95	95	95	95	95	95	95	80
45	152005	84	94	A	78	84	95	95	90	95	95	95	95	90	90	95	90

46	152018	76	84	76	64	60	90	95	95	95	95	90	95	95	90	95	70
47	152301	92	76	92	74	78	95	95	95	95	95	95	90	95	90	95	70
48	152068	68	70	86	64	40	90	95	95	95	95	90	90	95	90	95	60
49	152055	96	94	70	84	70	95	95	90	95	95	95	95	90	95	95	70
50	152033	88	84	78	86	72	95	95	90	95	95	95	95	90	95	95	60
51	152084	68	76	50	64	50	90	95	90	95	90	90	95	90	90	95	70
52	152064	92	86	70	80	86	95	95	90	95	95	95	95	90	90	95	70
53	152057	68	68	72	50	42	90	95	90	95	95	90	90	90	90	90	50
54	152102	80	68	66	40	54	95	95	90	95	95	95	95	90	90	90	50
55	152076	88	84	78	82	46	95	95	95	95	95	95	95	95	95	90	80
56	152071	92	90	84	82	68	95	95	95	95	95	95	95	95	95	95	70
57	152303	76	A	52	74	68	95	90	90	95	95	95	90	90	95	95	50
58	152040	92	92	74	82	88	95	95	95	95	95	95	95	95	95	95	70
59	152001	80	74	A	84	70	95	90	90	95	95	95	90	90	95	95	70
60	152049	72	56	A	20	56	95	90	90	95	95	95	90	90	90	95	0
61	152030	96	88	88	84	88	95	95	95	95	95	95	95	95	95	95	80
62	152006	96	92	92	74	90	95	95	95	95	95	95	95	95	95	95	80
63	152103	88	88	72	62	30	95	95	95	95	95	95	95	95	95	90	0
64	162907	76	80	60	72	60	95	95	95	95	95	95	95	95	95	95	70
65	162911	68	50	30	54	38	90	90	90	90	90	90	90	90	90	95	0
66	162912	48	46	36	A	20	90	90	90	80	80	90	90	90	90	90	0
67	162909	64	76	50	70	68	95	95	95	80	80	95	95	90	95	95	70
68	152078	88	88	80	90	92	90	90	100	90	90	90	90	90	90	90	70
69	152009	92	88	80	86	78	90	90	100	80	90	95	90	100	100	100	70
70	152015	88	88	88	78	86	100	90	90	80	90	85	100	90	90	80	60
71	152061	92	98	88	94	A	100	80	100	80	90	90	90	90	90	90	0
72	152302	84	90	A	84	96	90	80	100	90	90	86	90	100	100	100	50
73	152053	72	80	50	66	60	90	80	80	90	80	80	80	80	90	80	60
74	152043	72	74	78	68	68	90	90	80	90	80	80	90	80	90	80	0
75	152066	88	88	66	72	92	90	80	80	90	90	90	90	80	90	90	70
76	152029	92	90	70	90	82	90	90	80	80	80	95	80	80	90	100	50
77	152056	84	96	62	84	66	100	80	80	80	90	85	90	80	90	100	70
78	152075	92	98	80	96	84	90	80	90	90	90	90	90	90	90	100	70
79	152080	92	98	A	80	86	100	90	90	90	90	95	90	90	90	90	70
80	152022	88	98	90	84	92	90	80	90	80	90	88	80	90	90	90	70
81	152063	96	84	74	92	94	100	90	90	80	90	95	90	80	80	100	70
82	152036	75	78	70	84	76	90	80	80	90	90	90	80	80	90	100	0
83	152069	88	96	94	82	96	90	90	100	90	90	85	80	90	90	90	80
84	162908	68	72	48	44	80	80	80	90	90	90	80	80	80	80	80	60
85	152028	88	98	84	96	88	90	90	100	90	90	85	80	100	100	90	70
86	152031	88	72	80	76	82	90	80	100	80	90	88	90	90	90	80	50
87	162901	80	50	66	38	88	80	90	90	90	90	85	80	90	80	90	60
88	152027	96	76	86	92	80	100	90	90	90	90	95	90	80	90	90	70
89	152023	88	86	86	78	90	90	90	90	80	90	90	90	90	90	90	70
90	152073	84	62	78	62	80	90	90	90	80	90	80	80	80	90	80	60
91	162902	92	60	70	52	80	90	90	90	90	90	95	90	90	80	90	50
92	152082	92	76	62	74	70	90	90	90	80	90	95	90	80	90	80	50
93	152020	92	90	60	68	88	90	90	90	90	90	95	90	80	90	90	70
94	152101	84	74	22	20	70	90	90	90	80	80	90	80	80	80	80	60
95	152081	84	54	60	30	34	80	80	100	80	90	90	80	80	80	80	0

96	162905	80	72	30	34	68	80	90	90	80	90	85	90	80	80	80	50
97	152012	92	98	82	94	94	90	90	100	90	90	95	80	100	80	100	90
98	152067	96	94	92	82	94	90	80	100	90	90	95	80	100	90	100	90
99	152038	92	84	96	90	96	90	90	100	90	90	95	90	90	100	90	80
100	152025	92	88	82	90	90	90	90	100	90	90	90	90	90	100	100	60

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU |
L – Level, C-Count

	CIT					Assignments			Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	Q1	Q2	T1	T2	T3	T4	T5	
C	95	84	69	78	78	96	99	100	100	99	99	99	100	100	100	58
%	95	87.5	76.67	81.25	81.25	96	100	100	100	99	99	99	100	100	100	58
L	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C210.1	C210.2	C210.3	C210.4	C210.5
Obtained %	96.35	95.02	94.62	94.28	93.87
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C210:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C210.1	3	3		-	3	3	0	1.2	3	1.56
C210.2	3	3		-	3	3	0	1.2	3	1.56
C210.3	2	3		-	3	2.4	0	0.96	3	1.37
C210.4	3	-		3	3	3	0	1.2	3	1.56
C210.5	3	-		3	3	3	0	1.2	3	1.56
C210										1.52

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C210.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C210.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C210.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C210.4	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.2*Tutorial]
C210.5	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.2*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C210 = \frac{C210.1 + C210.2 + C210.3 + C210.4 + C210.5}{5} = 1.52$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: CS6456 Object Oriented Programming: C211
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO3	CO4	CO5	CO2	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	152060	96	97	98	96	96	91	96	98	90	100	70
2	152077	82	86	a	50	66	90	92	97	90	100	70
3	152044	78	55	a	72	62	78	86	94	70	100	70
4	152037	80	86	88	84	90	89	94	98	90	100	80
5	152305	66	10	58	6	56	91	91	93	70	70	80
6	152021	78	66	74	68	80	91	85	90	80	70	70
7	152050	72	18	68	60	34	76	83	91	80	70	60
8	152032	64	64	80	72	86	94	87	88	70	80	70
9	152016	52	34	74	66	62	93	80	87	70	70	50
10	152051	86	80	88	92	86	93	90	86	70	80	50
11	152019	92	94	74	80	86	92	93	98	90	100	80
12	152062	58	40	80	60	62	87	95	90	90	100	70
13	152048	38	22	36	56	10	79	92	86	70	80	0
14	152079	16	26	64	44	66	92	90	93	70	90	70
15	152013	68	30	68	72	76	92	94	91	90	90	50
16	152070	a	56	72	56	a	90	92	92	A	90	60
17	152011	88	64	90	92	88	90	93	94	A	100	60
18	152004	68	38	54	6	4	87	88	96	70	70	0
19	152039	50	30	50	50	64	88	90	98	70	70	70
20	152083	28	a	40	32	20	75	92	97	70	70	0
21	152017	68	70	80	66	58	85	85	93	90	100	70
22	152046	70	58	78	70	82	94	87	92	90	100	70
23	152059	68	69	91	56	82	89	91	93	80	100	80
24	152026	82	70	90	a	82	89	90	98	80	100	80
25	152052	86	95	97	96	86	80	97	98	90	100	50
26	152304	92	60	95	80	78	90	95	97	80	90	80
27	152047	64	61	92	62	86	88	92	96	80	90	80
28	152003	88	85	90	90	88	90	90	94	90	100	90
29	152045	80	28	91	64	72	88	91	95	80	80	70
30	152042	62	82	95	92	78	97	95	98	90	100	80
31	162910	8	2	83	32	0	72	83	86	70	70	70
32	162906	a	0	82	50	12	70	82	88	A	70	60
33	162903	12	3	85	6	18	74	85	88	70	70	0
34	162904	50	20	80	50	a	85	80	88	70	70	50
35	152065	64	60	82	78	96	100	100	100	100	100	80
36	152035	a	a	80	56	56	100	100	100	100	100	60
37	152074	100	70	92	94	94	100	100	100	100	100	80
38	152041	80	58	94	88	88	100	100	100	100	100	80
40	152034	96	a	84	a	96	100	100	100	100	100	70
41	152014	92	84	92	86	70	100	100	100	100	100	70
42	152058	100	82	86	70	70	100	100	100	100	100	70
43	152008	100	96	92	92	92	100	100	100	100	100	70
44	152054	88	50	72	a	88	100	100	100	100	100	60
45	152002	96	94	92	96	96	100	100	100	100	100	80
46	152005	100	94	76	80	80	100	100	100	100	100	80

47	152018	96	62	46	82	82	100	100	100	100	100	70
48	152301	96	90	86	94	94	100	100	100	100	100	70
49	152068	60	50	70	70	70	100	100	100	100	100	80
50	152055	100	76	92	82	82	100	100	100	100	100	70
51	152033	96	80	84	82	82	100	100	100	100	100	70
52	152084	a	16	62	42	42	100	100	100	100	100	50
53	152064	92	74	70	88	88	100	100	100	100	100	70
54	152057	72	36	68	38	40	100	100	100	100	100	70
55	152102	52	66	50	66	66	100	100	100	100	100	70
56	152076	96	78	90	94	96	100	100	100	100	100	80
57	152071	88	a	62	26	30	100	100	100	100	100	80
58	152303	72	a	50	24	44	100	100	100	100	100	50
59	152040	80	68	56	84	84	100	100	100	100	100	50
60	152001	64	60	82	78	96	100	100	100	100	100	80
61	152049	a	a	80	56	56	100	100	100	100	100	0
62	152030	96	84	70	86	86	100	100	100	100	100	50
63	152006	96	0	16	60	60	100	100	100	100	100	80
64	152103	100	72	100	96	96	100	100	100	100	100	70
65	162907	52	8	38	74	74	100	100	100	100	100	50
66	162911	56	0	14	26	26	100	100	100	100	100	0
67	162912	28	4	38	8	50	100	100	100	100	100	50
68	162909	100	90	90	86	86	100	100	100	100	100	80
69	152078	68	28	58	34	60	80	92	94	70	70	90
70	152009	92	50	60	82	78	80	90	90	80	90	70
71	152015	68	80	86	74	86	80	87	92	90	80	80
72	152061	88	84	80	90	a	80	84	96	90	A	0
73	152302	56	52	a	78	66	80	92	90	80	90	50
74	152053	24	36	30	30	18	90	80	82	70	70	70
75	152043	28	8	28	34	24	0	76	76	60	60	0
76	152066	a	74	70	70	78	90	90	90	90	80	70
77	152029	80	86	28	94	80	100	94	89	90	90	70
78	152056	88	60	68	76	52	80	92	96	80	60	80
79	152075	92	88	70	86	86	80	90	92	80	90	80
80	152080	68	68	50	52	78	80	96	95	90	90	60
81	152022	72	74	72	88	82	80	98	94	80	90	70
82	152063	80	76	80	82	66	90	92	86	90	100	70
83	152036	72	62	62	64	82	0	92	88	90	80	80
84	152069	92	90	78	96	80	80	98	92	100	100	90
85	152028	80	86	82	80	80	80	92	90	90	90	90
86	152031	76	64	64	80	82	100	90	98	90	90	70
87	152023	80	70	72	82	78	90	86	88	80	80	80
88	152027	60	86	92	92	50	0	72	70	80	80	70
89	152073	24	38	60	24	16	80	82	86	70	90	70
90	152082	60	42	52	50	28	90	70	72	80	70	80
91	152020	88	68	88	64	78	80	88	96	80	90	70
92	152101	52	28	80	52	50	90	80	70	70	70	70
93	152081	52	10	76	30	2	80	76	88	A	70	90
94	152012	80	56	96	66	80	80	96	96	80	60	80
95	152067	88	48	98	78	86	80	98	98	90	100	80
96	155038	60	94	99	88	84	0	99	98	100	90	70

97	152025	80	82	92	86	74	90	92	90	80	80	80
98	162908	36	2	70	50	6	90	70	88	60	70	60
99	162901	20	16	80	2	22	90	80	72	70	70	50
100	162902	40	36	89	52	50	90	89	94	80	70	60
101	162905	32	28	80	22	10	90	80	70	70	60	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count											
	CIT					Assignment			Seminar	Quiz	AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO1	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A1	A2	A3	S1	
C	71	53	78	64	68	89	95	94	94	95	69
%	75.53	56.38	80.41	65.98	70.1	89	95	94	97.92	95.96	69
L	2	0	3	1	2	3	3	3	3	3	1

Attainment Calculation:

Survey:

Survey	C211.1	C211.2	C211.3	C211.4	C211.5
Obtained %	94.11	94.66	93.38	93	92.6
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C211:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C211.1	2	3	-	-		2.3	1	1.52	3	1.82
C211.2	0	-	-	3		0.6	1	0.84	3	1.27
C211.3	3	3	-	-		3	1	1.8	3	2.04
C211.4	1	3	-	-		1.6	1	1.24	3	1.59
C211.5	2	-	3	-		2.2	1	1.48	3	1.78
C211										1.7

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C211.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C211.2	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C211.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C211.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C211.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C211 = \frac{C211.1 + C211.2 + C211.3 + C211.4 + C211.5}{5} = 1.7$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6402 Transmission and Distribution: C212
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO5	CO2	CO4	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	Q2	T1	T2	T3	T4	T5	
1	152060	96	100	96	94	98	100	100	100	70	80	100	100	100	100	100	100	90
2	152077	84	76	A	74	98	100	100	100	100	40	100	100	100	100	100	100	80
3	152044	50	54	64	66	54	100	100	100	50	70	100	100	100	100	100	100	60
4	152037	88	90	86	92	96	100	100	100	100	80	100	100	100	100	100	100	70
5	152305	60	62	A	72	76	100	100	100	100	90	100	100	100	100	100	100	50
6	152021	52	84	90	68	68	100	100	100	100	80	100	100	100	100	100	100	70
7	152050	52	56	54	52	82	100	100	100	70	60	100	100	100	100	100	100	70
8	152032	52	84	74	80	80	100	100	100	100	70	100	100	100	100	100	100	80
9	152016	72	74	A	80	72	80	100	100	100	90	100	90	100	100	100	100	50
10	152051	56	74	98	72	96	100	100	100	50	90	100	100	100	100	100	100	70
11	152019	96	86	92	90	90	100	100	100	60	90	100	100	100	100	100	100	90
12	152062	80	78	82	72	90	100	100	100	80	80	100	100	100	100	100	100	60
13	152048	28	28	A	50	50	100	100	100	80	90	100	90	100	100	100	100	50
14	152079	68	68	68	72	70	90	100	100	100	70	100	100	100	100	100	100	70
15	152013	68	52	76	72	42	100	100	100	30	80	100	100	100	100	100	100	60
16	152070	56	52	84	72	A	100	100	100	80	80	100	100	100	100	100	100	60
17	152011	92	90	94	86	98	100	100	100	100	40	100	100	100	100	100	100	70
18	152004	52	70	14	72	50	100	100	100	100	30	100	100	100	100	100	100	50
19	152039	84	82	62	66	44	100	100	100	100	70	100	100	100	100	100	100	50
20	152083	24	22	72	66	68	100	100	100	90	70	100	100	100	100	100	100	50
21	152017	80	58	84	74	56	100	100	100	100	70	100	100	100	100	100	100	60
22	152046	88	72	52	70	76	100	100	100	100	60	100	100	100	100	100	100	60
23	152059	A	74	72	72	96	90	100	100	100	70	100	100	100	100	100	100	80
24	152026	92	62	96	A	92	100	100	100	40	40	100	100	100	100	100	100	80
25	152052	80	80	92	90	88	100	100	100	100	90	100	100	100	100	100	100	70
26	152304	84	58	84	66	96	100	100	100	100	80	100	100	100	100	100	100	50
27	152047	80	86	88	A	90	100	100	100	100	90	100	100	90	100	100	100	60
28	152003	100	92	92	96	96	100	100	100	40	90	90	100	100	100	100	100	80
29	152045	80	80	96	86	94	100	100	100	30	30	100	100	100	100	100	100	70
30	152042	84	64	84	90	96	100	100	100	100	80	90	100	100	100	100	100	70
31	162910	28	50	66	50	68	100	100	90	100	60	100	100	100	100	90	100	70
32	162906	A	60	A	40	60	100	90	80	100	60	90	100	100	90	80	100	50
33	162903	8	10	8	14	50	100	90	90	100	60	90	100	100	90	90	80	0
34	162904	52	36	40	54	A	100	90	90	50	70	90	90	100	90	90	90	50
35	152065	56	60	70	70	86	90	100	90	100	80	90	90	90	80	90	100	70
36	152035	A	A	84	50	60	A	90	100	80	A	80	A	A	80	90	90	70
37	152074	72	60	80	80	84	100	100	80	100	100	90	90	100	100	90	90	50
38	152041	80	52	60	74	94	90	100	90	90	80	80	80	90	90	90	100	50
39	152034	64	70	44	64	82	100	100	90	90	80	80	90	100	80	90	100	50
40	152014	68	62	70	84	90	90	100	100	90	80	90	90	90	80	90	100	70
41	152058	76	76	76	64	72	90	100	80	80	90	80	90	90	80	90	100	70
42	152008	88	82	90	84	96	90	100	100	100	80	90	90	100	90	90	100	80
43	152054	72	32	52	76	80	70	80	100	90	80	80	70	90	90	80	100	50
44	152002	84	84	92	88	98	90	100	90	100	80	80	90	90	90	90	100	70
45	152005	92	94	98	92	98	90	100	90	100	90	100	90	90	90	90	100	80

46	152018	72	84	70	40	86	70	80	80	100	80	70	70	90	90	80	80	70
47	152301	64	50	50	80	58	100	80	80	80	90	100	70	90	90	80	90	60
48	152068	52	62	A	60	52	70	80	70	80	90	70	70	80	70	80	80	50
49	152055	88	90	86	86	88	90	100	100	100	80	100	90	90	100	90	100	80
50	152033	56	70	84	84	86	80	80	100	100	80	80	70	80	90	90	100	70
51	152084	52	32	70	66	88	80	90	100	90	80	90	70	80	90	90	90	50
52	152064	80	72	60	80	90	100	100	100	100	100	90	90	90	80	90	100	80
53	152057	52	20	70	76	76	80	80	90	80	80	80	70	80	90	100	100	50
54	152102	52	50	50	76	82	70	90	90	100	80	80	70	80	70	80	90	50
55	152076	60	70	A	50	78	60	80	80	80	70	80	60	70	70	100	80	70
56	152071	68	54	60	72	82	90	90	80	90	80	80	70	90	90	80	90	70
57	152303	56	30	A	42	74	60	70	80	80	80	100	70	80	80	70	80	70
58	152040	80	76	54	74	90	80	80	80	100	80	90	70	80	90	90	90	60
59	152001	76	64	76	80	86	80	80	80	100	80	90	70	80	70	80	90	70
60	152049	16	32	A	16	60	70	70	70	80	70	100	60	80	80	80	80	70
61	152030	96	88	94	92	84	100	100	100	90	80	90	90	90	100	90	100	70
62	152006	92	90	88	88	92	90	100	80	100	90	90	90	90	100	90	100	70
63	152103	56	50	A	20	86	60	80	80	100	70	80	70	70	70	70	80	0
64	162907	52	54	52	60	66	80	80	90	100	80	80	80	80	80	80	90	70
65	162911	16	16	36	30	50	70	80	80	80	70	80	60	70	70	80	80	50
66	162912	4	32	20	30	50	60	80	90	80	70	80	70	90	70	80	80	0
67	162909	36	52	10	70	78	80	80	80	90	70	80	60	70	80	80	90	60
68	152078	72	58	56	A	64	90	90	90	100	90	90	90	90	90	90	90	50
69	152009	92	82	66	84	72	90	90	90	90	90	90	90	80	90	90	90	70
70	152015	72	82	58	72	90	90	90	90	90	80	90	90	80	80	90	90	70
71	152061	96	98	92	98	A	90	80	90	100	90	80	90	90	90	90	80	0
72	152302	A	50	62	74	80	90	80	80	100	90	90	90	80	90	80	90	70
73	152053	84	38	44	50	74	90	90	90	100	90	90	80	90	80	90	90	70
74	152043	52	54	60	58	30	80	90	90	90	80	80	80	90	90	80	90	50
75	152066	A	90	64	84	82	90	90	90	90	90	90	90	80	90	90	90	70
76	152029	68	88	44	70	88	80	90	80	80	80	90	90	80	90	90	90	50
77	152056	88	76	68	76	84	90	90	90	90	90	90	80	90	80	80	80	50
78	152075	92	92	78	82	82	90	90	90	100	90	90	100	90	90	90	90	70
79	152080	72	90	60	88	92	80	90	90	100	80	90	100	90	80	90	90	70
80	152022	92	80	80	86	86	90	80	80	100	90	90	90	80	90	80	90	70
81	152063	80	72	84	90	90	90	90	90	90	80	90	80	90	90	90	90	50
82	152036	84	82	82	72	90	80	80	90	90	90	90	80	90	90	90	90	50
83	152069	100	62	A	94	76	90	90	80	100	80	80	100	90	90	80	80	70
84	152028	92	74	94	84	88	90	90	90	100	80	90	90	80	80	90	90	80
85	152031	76	70	64	90	80	90	90	90	90	90	90	90	90	90	80	90	50
86	152023	88	92	90	88	76	90	90	90	90	90	90	90	90	90	90	90	50
87	152027	68	66	62	72	84	90	80	90	80	90	90	80	80	80	90	90	70
88	152073	72	42	50	66	50	90	90	90	90	80	90	70	80	90	80	90	50
89	152082	76	64	70	80	74	90	90	90	90	90	90	70	90	90	90	90	50
90	152020	76	72	66	74	74	90	90	90	100	90	90	100	90	90	90	90	70
91	152101	76	68	52	70	72	90	90	90	90	80	90	90	80	80	90	90	60
92	152081	68	50	50	62	46	90	80	90	80	80	90	70	90	90	90	80	50
93	152012	72	100	80	82	92	90	100	90	100	80	90	100	90	90	80	90	80
94	152067	88	98	80	96	94	100	100	100	100	90	90	100	100	100	100	100	80
95	152038	100	92	94	90	90	90	90	90	80	90	90	80	90	80	90	90	70

96	152025	68	78	46	82	84	80	90	90	80	90	90	70	70	90	80	80	70
97	162908	40	32	A	64	42	90	80	90	80	90	90	90	80	80	90	90	50
98	162901	52	54	56	62	74	80	90	90	80	80	90	70	90	90	90	90	70
99	162902	50	50	A	76	94	90	80	90	90	80	90	80	90	80	90	90	70
100	162905	60	52	32	62	74	90	90	80	80	80	90	80	90	90	80	90	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU |

L – Level, C-Count

	Level: C Grade																AU
	CIT					Assignments			Seminar	Quiz		Tutorial					
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO5	CO2	CO4	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	Q2	T1	T2	T3	T4	T5	
C	66	64	63	81	82	89	98	98	92	89	100	95	99	100	100	100	54
%	69.47	64.65	72.41	83.51	84.54	89.9	98	98	92	89.9	100	95.96	100	100	100	100	54
L	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C212.1	C212.2	C212.3	C212.4	C212.5
Obtained %	98.03	96.16	96.52	95.78	96.81
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C212:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C212.1	1	-		-	3	1.6	0	0.64	3	1.11
C212.2	1	3		3	3	1.8	0	0.72	3	1.18
C212.3	2	3		-	3	2.4	0	0.96	3	1.37
C212.4	3	3		3	3	3	0	1.2	3	1.56
C212.5	3	-		-	3	2.7	0	1.08	3	1.46
C212										1.34

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C212.1	AU Exam	[0.7*Internal Test + 0.3*Tutorial]
C212.2	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Quiz + 0.2*Tutorial]
C212.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C212.4	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Quiz + 0.2*Tutorial]
C212.5	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C212 = \frac{C212.1 + C212.2 + C212.3 + C212.4 + C212.5}{5} = 1.34$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6403 Discrete Time Systems and Signal Processing : C213
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz		Tutorial				AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO5	CO1	CO3	CO1	CO2	CO3	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	Q2	T1	T2	T3	T4	
1.	152060	96	98	94	96	94	90	90	90	90	90	90	90	90	90	90	90
2.	152077	96	88	A	62	86	90	90	90	90	90	90	80	90	90	90	80
3.	152044	72	72	64	50	70	80	90	90	90	90	90	90	90	90	90	80
4.	152037	88	88	90	100	86	90	90	90	90	90	90	90	90	90	90	90
5.	152305	96	2	A	50	62	90	90	90	90	90	90	90	90	90	90	0
6.	152021	80	78	94	86	80	80	90	90	90	90	90	80	90	90	90	70
7.	152050	68	52	52	50	66	90	90	90	90	90	90	90	90	90	90	60
8.	152032	76	80	76	50	78	80	90	90	90	90	90	80	90	90	90	70
9.	152016	84	60	64	50	66	90	90	90	90	90	90	90	90	90	90	60
10.	152051	96	50	72	86	78	90	90	90	90	90	90	80	90	90	90	70
11.	152019	96	82	90	86	88	90	90	90	90	90	90	90	90	90	90	80
12.	152062	88	80	82	62	82	90	90	90	90	90	90	80	90	90	90	70
13.	152048	40	0	26	10	20	90	90	90	90	90	90	90	90	90	90	60
14.	152079	64	50	74	50	72	90	90	90	90	90	90	90	90	90	90	80
15.	152013	36	62	70	52	72	90	90	90	90	90	90	80	90	90	90	70
16.	152070	92	62	50	84	66	90	90	90	90	90	90	90	90	90	90	70
17.	152011	96	86	80	94	86	90	90	90	90	90	90	90	90	90	90	80
18.	152004	80	50	68	22	36	90	90	90	90	90	90	80	90	90	90	70
19.	152039	88	74	76	86	82	90	90	90	90	90	90	90	90	90	90	70
20.	152083	16	8	50	24	38	90	90	90	90	90	90	80	90	90	90	0
21.	152017	72	78	78	78	A	90	90	90	90	90	90	90	90	90	90	70
22.	152046	76	50	56	50	60	90	90	90	90	90	90	80	90	90	90	70
23.	152059	96	50	60	A	62	90	90	90	90	90	90	90	90	90	90	80
24.	152026	88	50	84	A	76	90	90	90	90	90	90	90	90	90	90	90
25.	152052	88	94	92	82	88	90	90	90	90	90	90	90	90	90	90	70
26.	152304	84	60	A	66	74	90	90	90	90	90	90	90	90	90	90	70
27.	152047	88	74	86	74	82	90	90	90	90	90	90	90	90	90	90	70
28.	152003	88	90	88	A	82	90	90	90	90	90	90	90	90	90	90	80
29.	152045	88	76	80	86	78	90	90	90	90	90	90	90	90	90	90	80
30.	152042	92	72	78	82	84	90	90	90	90	90	90	90	90	90	90	70
31.	162910	52	28	52	40	52	80	80	90	80	80	80	80	80	80	90	70
32.	162906	68	34	18	50	36	80	80	90	80	80	80	80	80	80	90	70
33.	162903	16	6	8	26	38	80	80	90	80	80	80	80	80	80	90	60
34.	162904	76	2	74	26	A	80	80	90	80	80	80	80	80	80	90	70
35.	152065	72	84	80	78	80	100	100	90	90	70	100	100	100	100	95	70
36.	152035	A	A	84	64	70	A	90	90	95	A	100	A	80	95	90	60
37.	152074	96	84	88	90	88	100	100	90	95	80	100	100	100	100	95	80
38.	152041	80	60	72	60	74	100	100	90	90	80	50	100	100	95	95	80
39.	152034	84	74	80	78	70	100	100	100	85	80	100	100	100	100	90	80
40.	152014	92	70	88	92	86	100	100	90	85	80	100	100	100	100	90	70
41.	152058	92	90	84	88	80	100	100	100	95	80	100	95	100	100	95	80
42.	152008	100	90	92	96	88	100	100	100	100	70	100	100	100	100	100	80
43.	152054	84	24	76	66	60	100	100	90	90	80	100	95	90	90	95	80
44.	152002	88	72	88	96	90	100	100	100	100	70	80	100	100	100	100	80
45.	152005	100	100	100	100	94	100	100	100	100	80	100	100	100	100	100	70

46.	152018	92	70	72	56	70	100	90	90	100	100	90	100	100	95	90	70
47.	152301	68	60	76	50	60	100	100	90	85	80	100	95	95	100	95	80
48.	152068	80	30	64	50	A	80	100	80	80	70	60	90	85	80	85	50
49.	152055	88	100	98	94	84	100	100	100	100	70	90	100	100	95	100	70
50.	152033	96	92	84	92	90	100	90	90	100	70	100	95	95	90	100	70
51.	152084	88	72	84	64	64	90	90	100	95	100	80	95	95	100	95	70
52.	152064	100	82	80	80	80	100	100	100	100	80	100	100	100	100	100	80
53.	152057	76	80	80	60	62	80	70	80	85	70	100	90	90	80	85	70
54.	152102	64	84	84	68	60	90	90	90	95	90	100	90	85	90	90	90
55.	152076	84	20	52	6	54	70	100	80	80	100	100	70	80	78	85	100
56.	152071	84	66	80	66	84	100	100	90	90	70	100	95	95	95	95	90
57.	152303	72	A	38	10	52	80	80	80	90	70	100	95	85	80	80	70
58.	152040	96	92	80	66	56	90	90	100	95	90	100	100	90	95	95	60
59.	152001	92	72	88	78	86	90	80	100	100	70	80	95	90	95	95	100
60.	152049	8	22	14	A	18	60	100	70	70	70	50	90	90	70	70	0
61.	152030	96	98	100	98	90	100	100	100	100	90	70	100	100	100	100	90
62.	152006	92	98	90	90	92	100	100	100	100	80	90	100	100	100	100	70
63.	152103	60	80	60	60	66	80	90	90	90	90	100	95	85	90	90	70
64.	162907	72	32	64	50	62	80	100	90	90	60	100	90	90	90	90	80
65.	162911	36	24	68	18	36	70	100	70	70	60	90	80	80	70	75	50
66.	162912	64	50	72	22	22	70	90	80	70	90	100	95	80	80	85	70
67.	162909	24	A	84	66	54	80	80	80	80	70	80	85	85	85	85	0
68.	152078	84	30	24	66	60	96	94	92	70	70	60	98	90	96	86	70
69.	152009	76	60	74	66	50	88	90	90	80	90	90	94	85	88	88	60
70.	152015	80	72	54	70	76	90	92	87	90	80	70	94	90	96	90	70
71.	152061	88	98	90	78	A	92	96	84	90	90	90	96	98	94	94	0
72.	152302	80	22	60	64	88	86	90	92	80	90	90	92	96	86	94	70
73.	152053	40	4	56	44	26	82	82	80	70	A	70	86	73	78	82	50
74.	152043	64	58	38	50	76	76	76	76	60	60	60	80	86	72	86	50
75.	152066	92	66	78	88	84	74	90	90	90	A	90	82	90	86	92	70
76.	152029	68	80	68	82	64	94	89	94	90	90	90	94	96	90	96	70
77.	152056	76	50	72	74	38	90	96	92	A	60	90	94	90	92	98	70
78.	152075	92	68	72	74	78	80	92	90	A	90	80	96	96	86	92	70
79.	152080	84	88	52	66	82	86	95	96	90	90	100	96	96	96	96	70
80.	152022	80	76	84	64	84	88	94	98	80	90	90	98	98	85	90	80
81.	152063	84	80	78	84	82	92	86	92	90	100	80	88	92	94	96	70
82.	152036	84	80	72	84	78	94	88	92	90	80	80	86	90	92	92	50
83.	152069	88	A	74	84	86	96	92	98	100	100	90	92	92	80	98	80
84.	152028	68	90	90	90	80	88	90	92	90	90	90	96	90	86	99	70
85.	152031	80	64	58	64	76	92	98	90	90	90	80	92	90	92	98	70
86.	152023	88	82	88	88	84	86	88	86	80	80	80	90	96	96	92	80
87.	152027	84	76	72	72	38	94	70	72	80	A	100	92	92	90	86	70
88.	152073	52	36	50	42	38	85	86	82	70	90	80	90	90	92	76	70
89.	152082	56	76	40	62	64	70	72	70	80	70	90	90	92	86	88	60
90.	152020	72	74	60	94	76	88	96	88	80	90	90	94	92	92	92	90
91.	152101	44	32	58	50	70	84	70	80	70	A	70	90	95	87	80	90
92.	152081	60	28	34	38	22	80	88	76	70	A	90	82	86	80	78	90
93.	152012	84	86	86	90	90	92	96	96	80	60	90	96	96	98	92	90
94.	152067	88	92	80	86	90	98	98	98	90	80	90	98	98	99	98	90
95.	152038	92	92	90	94	94	98	98	99	100	90	100	96	92	92	98	80

96.	152025	80	76	54	76	72	94	90	92	80	80	90	94	92	80	92		80
97.	162908	16	2	28	8	66	84	88	70	60	A	80	92	94	86	86		50
98.	162901	56	28	40	22	60	80	72	80	70	70	80	84	80	92	76		50
99.	162902	64	64	62	70	56	86	94	89	80	A	80	92	86	80	80		70
100.	162905	64	A	50	34	40	84	70	80	70	60	60	80	90	82	72		50

Benchmark: % of Students secured ≥60 marks in CITs, ≥80 in assignment, ≥65 in Seminar/Quiz, Tutorial and ≥C (7) grade in AU L – Level, C-Count																	
	CIT					Assignments			Seminar	Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO5	CO1	CO3	CO1	CO2	CO3	CO4		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	Q2	T1	T2	T3	T4		
C	85	64	72	65	75	92	93	93	96	86	94	99	100	100	100		79
%	85.86	67.37	74.23	67.71	78.13	92.93	93	93	97.96	93.48	94	100	100	100	100		79
L	3	1	2	1	2	3	3	3	3	3	3	3	3	3	3		2

Attainment Calculation:

Survey:

Survey	C213.1	C213.2	C213.3	C213.4	C213.5
Obtained %	97.54	95.06	95.59	94.77	93.46
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C213:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C213.1	3	3	-	3	3	3	2	2.4	3	2.52
C213.2	1	3	-	-	3	1.8	2	1.92	3	2.14
C213.3	2	-	-	3	3	2.3	2	2.12	3	2.3
C213.4	1	3	-	-	3	1.8	2	1.92	3	2.14
C213.5	2	-	3	-	-	2.2	2	2.08	3	2.26
C213										2.27

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C213.1	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Quiz + 0.2*Tutorial]
C213.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C213.3	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.2*Tutorial]
C213.4	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C213.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C213 = \frac{C213.1 + C213.2 + C213.3 + C213.4 + C213.5}{5} = 2.27$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6404 Measurements and Instrumentation: C214
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO5	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	152060	96	80	90	A	86	100	100	100	90	100	80
2	152077	84	50	A	82	78	100	100	90	90	100	70
3	152044	80	50	70	56	18	90	100	90	80	100	60
4	152037	60	72	88	78	84	100	100	100	90	100	70
5	152305	48	50	A	70	36	90	100	80	80	100	50
6	152021	68	36	82	66	74	100	100	80	80	100	60
7	152050	36	34	68	62	66	90	100	80	70	100	50
8	152032	56	50	76	72	54	90	100	80	70	100	60
9	152016	64	56	A	24	50	90	100	80	80	100	50
10	152051	80	64	A	80	84	90	100	80	80	100	60
11	152019	72	72	88	A	86	100	100	100	90	100	80
12	152062	88	50	78	76	68	100	100	90	80	100	70
13	152048	48	50	A	6	2	80	100	80	70	100	60
14	152079	52	50	66	72	68	90	100	90	90	80	50
15	152013	76	52	76	70	62	90	100	80	80	100	70
16	152070	72	62	86	68	56	100	100	100	80	100	0
17	152011	84	70	86	82	70	100	100	90	90	100	70
18	152004	44	32	48	60	50	90	100	80	A	100	0
19	152039	60	36	A	70	26	90	100	80	70	100	70
20	152083	4	22	58	58	42	80	100	80	70	100	0
21	152017	64	50	A	70	A	90	100	80	70	100	50
22	152046	60	34	84	76	72	90	100	80	70	100	70
23	152059	76	64	72	60	70	100	100	100	80	80	50
24	152026	80	56	78	A	72	100	100	80	80	100	50
25	152052	72	54	86	68	80	100	100	90	90	100	60
26	152304	72	68	72	60	70	100	100	90	90	80	70
27	152047	64	50	82	74	78	90	100	80	80	100	80
28	152003	80	76	84	A	76	100	100	100	90	100	80
29	152045	68	64	86	82	78	100	100	100	A	80	80
30	152042	84	58	70	80	76	90	100	80	80	100	70
31	162910	36	34	A	72	50	80	100	80	70	100	60
32	162906	20	18	A	70	36	90	100	80	70	100	0
33	162903	8	6	8	36	36	80	100	80	70	100	0
34	162904	48	36	52	60	A	90	100	80	70	100	60
35	152065	76	68	74	72	88	100	100	100	100	100	70
36	152035	A	A	0	50	50	A	100	100	100	100	50
37	152074	84	30	84	76	84	100	100	100	100	100	80
38	152041	60	50	88	74	88	100	100	100	100	100	70
39	152034	88	62	86	70	88	100	100	100	100	100	70
40	152014	84	72	84	76	90	100	100	100	100	100	80
41	152058	88	66	84	58	68	100	100	100	100	100	70
42	152008	88	86	94	88	96	100	100	100	100	100	80
43	152054	56	26	74	58	42	100	90	100	100	100	70
44	152002	88	88	92	96	96	100	100	100	100	100	80
45	152005	96	90	96	96	96	100	100	100	100	100	80

46	152018	64	50	80	64	70	100	90	90	100	100	70
47	152301	64	50	74	54	68	100	100	100	100	100	60
48	152068	60	50	A	80	A	90	100	90	70	40	60
49	152055	88	68	94	80	78	100	100	100	90	100	80
50	152033	88	60	82	66	88	100	100	90	100	100	70
51	152084	76	30	52	52	74	100	90	90	80	100	60
52	152064	76	68	86	80	96	100	100	100	100	100	90
53	152057	64	32	72	64	34	100	90	90	90	100	50
54	152102	56	50	70	62	76	100	100	90	100	80	60
55	152076	A	50	86	28	20	90	90	90	90	100	70
56	152071	88	36	52	66	64	100	100	100	90	100	80
57	152303	64	50	54	50	56	90	100	90	100	80	50
58	152040	76	60	82	76	80	100	90	90	100	100	60
59	152001	84	58	94	86	64	100	100	90	90	100	70
60	152049	A	15	60	16	30	100	90	90	60	100	0
61	152030	96	64	94	96	94	100	100	100	100	60	90
62	152006	84	72	90	90	90	100	90	100	100	100	80
63	152103	64	50	60	18	34	90	100	90	100	100	70
64	162907	48	50	54	70	62	100	100	90	100	100	70
65	162911	28	16	52	34	64	100	90	90	80	100	50
66	162912	28	10	60	58	64	90	90	100	100	100	50
67	162909	12	50	64	50	66	100	90	90	80	80	60
68	152078	76	72	38	90	94	80	100	100	100	100	80
69	152009	76	50	78	84	56	90	100	100	100	100	50
70	152015	64	50	92	72	70	80	100	100	100	90	70
71	152061	96	72	98	94	a	100	100	100	100	100	0
72	152302	92	68	52	56	92	90	100	100	90	90	70
73	152053	52	72	42	48	26	100	100	100	70	80	0
74	152043	52	50	52	52	30	80	100	100	90	80	90
75	152066	76	54	66	80	58	100	100	100	90	80	70
76	152029	80	58	98	70	66	100	100	100	90	80	60
77	152056	84	50	58	66	32	80	100	100	90	80	70
78	152075	92	72	97	a	80	90	100	100	90	100	60
79	152080	96	a	98	94	84	100	100	100	100	100	70
80	152022	92	50	a	82	74	90	100	100	90	100	60
81	152063	72	50	84	70	66	100	100	100	90	90	60
82	152036	a	54	70	a	76	100	100	100	90	80	70
83	152069	a	66	98	90	82	90	100	100	100	100	70
84	152028	92	50	80	70	72	90	100	100	90	90	70
85	152031	84	58	76	82	62	100	100	100	90	90	70
86	152023	64	58	98	64	72	80	100	100	90	100	70
87	152027	64	68	96	50	66	100	100	100	70	90	70
88	152073	28	64	54	58	32	80	100	100	70	80	70
89	152082	52	52	56	64	76	100	100	100	70	80	0
90	152020	96	72	66	86	88	80	100	100	90	90	70
91	152101	32	50	52	44	50	100	100	100	90	80	50
92	152081	0	50	36	36	40	80	100	100	90	80	60
93	152012	96	76	98	90	70	100	100	100	90	100	70
94	152067	96	72	98	96	94	100	100	100	90	100	80
95	152038	88	56	96	90	84	100	100	100	90	100	60

96	152025	92	56	90	68	76	80	100	100	90	100	70
97	162908	12	a	60	20	64	90	100	100	70	80	60
98	162901	28	50	70	20	41	100	100	100	70	80	70
99	162902	56	50	36	72	54	100	100	100	70	80	60
100	162905	44	50	76	52	50	80	100	100	70	80	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count												
	CIT					Assignment			Seminar		Quiz	
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO5		CO4	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1	
C	68	34	69	67	66	99	100	100	98		123	
%	71.58	35.05	77.53	71.28	68.75	100	100	100	98		100	
L	2	0	2	2	1	3	3	3	3		3	

Attainment Calculation:

Survey:

Survey	C214.1	C214.2	C214.3	C214.4	C214.5
Obtained %	97.69	96.39	97.48	95.48	96.54
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C214:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C214.1	2	3	-	-		2.3	0	0.92	3	1.34
C214.2	0	3	-	-		0.9	0	0.36	3	0.89
C214.3	2	3	-	-		2.3	0	0.92	3	1.34
C214.4	2	-	-	3		2.2	0	0.88	3	1.3
C214.5	1	-	3	-		1.4	0	0.56	3	1.05
C214										1.18

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C214.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C214.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C214.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C214.4	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C214.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C214 = \frac{C214.1 + C214.2 + C214.3 + C214.4 + C214.5}{5} = 1.18$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: CS6461 Object Oriented Programming Lab: C215

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	98	95	95		90	95		80	90	98	80	93		90	90	100
2	152077		75	90	96	90	90		90	90	96	90	90		90	90	100
3	152044		55	65		60	85	92	70	80		90	87	92	90	90	100
4	152037		75	90		90	90	97	90	90	97	87	87		93	90	100
5	152305	90	60	75		75	85	90	90	80		77	77		70	87	90
6	152021		70	70	95	55	90		90	90	95	87	87		90	87	90
7	152050		80	70	88	75	80		80	70		90	83	88	83	93	80
8	152032		70	70		90	90	91	90	90		90	90	91	90	90	90
9	152016		55	85	92	70	85	92	90	90		77	83		80	87	90
10	152051		60	75	94	85	85		80	80	94	77	80		80	77	100
11	152019		80	95	98	90	95	98	90	90		90	93		90	90	100
12	152062	95	65	80		80	85		90	90		90	90	95	93	93	90
13	152048	86	75	60		75	75		60	60	86	60	60		60	60	80
14	152079	88	70	85		60	90	88	80	90		80	83		80	90	90
15	152013		85	85		85	85	96	90	90	96	87	90		90	93	100
16	152070		80	90		80	80	90	90	90	90	70	73		87	83	90
17	152011		85	90		80	90		90	90		90	90		90	90	100
18	152004		65	75		70	80		80	80		73	87		80	90	80
19	152039	87	55	60		70	80		90	90		77	77	87	77	83	80
20	152083		60	60	88	65	75		80	80	88	77	70		80	80	80
21	152017		55	75	93	85	85		90	70	93	73	77		90	90	100
22	152046		75	70		80	90	96	90	90		90	87	96	90	90	100
23	152059		80	80		70	85	92	90	90	92	87	87		90	93	90
24	152026		75	85	95	70	85		90	90	95	90	93		90	93	100
25	152052	98	90	100		90	85		90	90		83	90	98	90	90	100
26	152304		80	95		75	85	93	80	90	93	90	93		90	90	100
27	152047	96	80	95		75	65	96	80	80		87	90		93	90	100
28	152003		90	90	98	80	80		90	90		93	93	98	90	90	100
29	152045	96	80	80	96	90	90		90	90		83	90		93	90	100
30	152042	98	75	70		85	90		90	100		87	93	98	90	90	100
31	162910		80	60		65	65	88	60	70	88	80	70		67	77	100
32	162906		75	60		80	80		90	70		73	80		80	80	100
33	162903		75	50	87	65	77		70	60	87	77	63		73	73	100
34	162904	88	75	50		65	75	88	70	70		77	80		77	73	90
1	152065	90	100	100		100	100		100	100		100	100		100	100	90
2	152035	80	100	100		100	100		100	100		100	100		100	100	100
3	152074	90	100	100		100	100		100	100		100	100		100	100	100
4	152041	96	100	100		100	100		100	100		100	100		100	100	100
5	152034		100	100	92	100	100		100	100		100	100		100	100	80
6	152014		100	100	99	100	100		100	100		100	100		100	100	100
7	152058		100	100	98	100	100		100	100		100	100		100	100	100
8	152008		100	100	94	100	100		100	100		100	100		100	100	100
9	152054		100	100		100	100	92	100	100		100	100		100	100	90
10	152002		100	100		100	100	98	100	100		100	100		100	100	90
11	152005		100	100		100	100	92	100	100		100	100		100	100	100

12	152018		100	100		100	100	99	100	100		100	100		100	100	80
13	152301		100	100		100	100		100	100	92	100	100		100	100	80
14	152068		100	100		100	100		100	100	96	100	100		100	100	70
15	152055		100	100		100	100		100	100	92	100	100		100	100	80
16	152033		100	100		100	100		100	100	80	100	100		100	100	70
17	152084		100	100		100	100		100	100		100	100	86	100	100	90
18	152064		100	100		100	100		100	100		100	100	82	100	100	80
19	152057		100	100		100	100		100	100		100	100	92	100	100	90
20	152102		100	100		100	100		100	100		100	100	99	100	100	80
21	152076	96	100	100		100	100		100	100		100	100		100	100	90
22	152071	92	100	100		100	100		100	100		100	100		100	100	90
23	152303	96	100	100		100	100		100	100		100	100		100	100	80
24	152040	94	100	100		100	100		100	100		100	100		100	100	90
25	152001		100	100	92	100	100		100	100		100	100		100	100	90
26	152049		100	100	94	100	100		100	100		100	100		100	100	100
27	152030		100	100	96	100	100		100	100		100	100		100	100	80
28	152006		100	100	90	100	100		100	100		100	100		100	100	100
29	152103		100	100		100	100	88	100	100		100	100		100	100	100
30	162907		100	100		100	100	80	100	100	76	100	100		100	100	80
31	162911		100	100		100	100		100	100	72	100	100		100	100	80
32	162912		100	100		100	100		100	100		100	100	86	100	100	100
33	162909		100	100		100	100		100	100		100	100		100	100	90
1	152078	86	40	80		45	65	88	60	70		70	67		77	83	100
2	152009		85	85		90	90	92	80	80		90	90	92	90	95	100
3	152015	96	55	80		65	80		70	80	96	80	85		90	90	80
4	152061		80	85	98	90	90		90	80	98	80	85		90	95	80
5	152302	98	80	90		90	90	98	80	80		95	85		90	90	100
6	152053		80	50		65	60		90	90		95	95		90	85	100
7	152043		50	50		80	65	86	90	90	86	90	83		90	85	100
8	152066		60	75	98	80	95		80	80		70	88	98	85	95	100
9	152029	97	85	85		80	80	97	85	80		95	100		90	100	100
10	152056		85	70		90	70	96	80	90	96	95	98		80	98	100
11	152075	97	85	85		90	90		80	90		95	95	97	80	98	100
12	152080		85	85	98	70	90		90	90	98	85	90		90	95	90
13	152022		95	95		90	80	97	90	90		95	95	97	90	98	100
14	152063	96	90	75		90	75	96	90	90		85	100		90	95	100
15	152036		90	25	96	85	55		90	90	96	85	90		90	98	100
16	152069	97	95	95		90	80		90	90		85	90	97	96	95	100
17	152028		90	90		90	85	97	80	100	97	95	95		90	100	100
18	152031	96	85	70		90	70	96	90	100		88	90		90	100	80
19	152023		90	85	98	95	70		100	100	98	95	100		90	92	80
20	152027	90	85	80		85	80	90	90	90		95	100		90	90	80
21	152073		75	90	80	80	85		90	90	80	90	90		60	93	80
22	152082		85	85		75	70	86	90	80		85	85	86	90	95	70
23	152020		70	45	96	60	70	96	60	70	96	75	55		95	95	90
24	152101	86	90	60		85	85		85	85		85	80		85	85	100
25	152081		85	80		85	55		85	55		80	65	82	90	85	100
26	152012		85	85	97	95	65	97	95	65	97	83	88		90	90	100
27	152067	97	80	85		85	85		85	85		90	85	97	90	93	70
28	155038		90	80	98	90	75	98	90	75		95	85		90	95	70

29	152025		90	75	96	85	75	96	85	75		83	68	96	95	90	70
30	162908	86	85	90		85	55		85	55	86	95	70		90	93	70
31	162901		85	80	86	85	65	86	85	65		88	100		90	20	70
32	162902		75	60		75	65		75	65	88	83	100	88	88	98	90
33	162905	84	85	80		75	70		75	70	84	85	95		90	85	80

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	32	100	100	31	100	100	38	100	100	35	100	100	24	100	100	100
C	32	87	72	31	89	76	38	96	83	33	99	87	24	97	94	100
%	100	87	72	100	89	76	100	96	83	94.29	99	87	100	97	94	100
L	3	3	2	3	3	2	3	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C215.1	C215.2	C215.3	C215.4	C215.5
Obtained %	94.59	92.91	92.09	91.8	90.08
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C215:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C215.1	3	3	2	2.8	3	2.92	3	2.936
	3	3	2	2.8	3	2.92	3	2.936
C215.3	3	3	3	3	3	3	3	3
C215.4	3	3	3	3	3	3	3	3
C215.5	3	3	3	3	3	3	3	3
C215								2.97

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C215.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C215.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C215.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C215.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C215.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C215 = \frac{C215.1 + C215.2 + C215.3 + C215.4 + C215.5}{5} = 2.97$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6411 Electrical Machines Lab: C216

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	95	100	95		95	95		95	95		85	90		92	93	100
2	152077		90	95		90	90		90	95	98	90	85		88	85	90
3	152044	90	90	80		90	85		90	90		90	85		90	82	100
4	152037		95	100	94	95	95		90	90		85	90		88	88	100
5	152305		80	80	92	80	80		85	85		75	80		82	88	70
6	152021		90	90		85	85	92	90	90		80	85		88	90	90
7	152050		80	80		80	80	92	80	80		80	80		80	80	70
8	152032	90	80	85		85	85		85	90		85	80		90	82	100
9	152016		85	85	90	80	80		70	75		70	75		70	75	100
10	152051		85	80		90	85		85	85		80	85	90	90	82	90
11	152019		95	95		95	100		90	90		85	90	98	95	95	90
12	152062	92	85	90		85	85		90	90		85	90		90	90	100
13	152048		80	70		80	70		80	70	92	80	70		80	73	90
14	152079		85	75		85	80	92	75	80		80	80		83	85	90
15	152013		80	85		85	80	90	80	85		85	85		82	90	90
16	152070		80	75	80	80	85		85	90		85	85		80	80	90
17	152011		95	95		95	95	92	95	90		95	100		92	95	70
18	152004	92	90	90		85	90		70	85		90	90		85	85	100
19	152039		85	80	94	85	85		80	85		85	90		80	80	80
20	152083		90	85		85	85		85	80	90	85	85		88	78	100
21	152017		85	85		85	85		90	80		90	90	92	90	90	100
22	152046		80	85		80	80	94	80	80		80	85		82	80	90
23	152059		85	80		85	80		80	90		90	90	90	92	88	100
24	152026		85	85		90	85		80	85		85	90	80	85	90	100
25	152052	90	85	80		85	85		90	90		85	85		85	85	100
26	152304		90	80	92	80	85		85	85		90	85		80	83	100
27	152047	88	90	85		80	85		85	85		80	85		80	85	100
28	152003		90	90		90	95		90	95	92	90	95		92	98	100
29	152045		90	90		90	90		90	90		90	90	92	88	92	100
30	152042		90	85	94	85	85		85	80		85	85		82	85	100
31	162910	82	80	80		75	75		70	85		70	70		72	75	90
32	162906		70	80		80	90	84	70	90		70	70		70	75	100
33	162903		70	70		70	70		70	70	80	70	70		70	70	100
34	162904		90	70		70	85		75	80		70	80	92	70	75	90
35	152065		90	80		95	85	90	90	95		85	85		90	95	90
36	152035		95	90	80	90	100		85	80		85	90		90	95	80
37	152074		90	80		90	90		95	95	85	85	95		93	95	100
38	152041		90	80	85	90	90		90	85		85	95		90	93	90
39	152034		95	85		90	85		90	95	85	90	85		90	93	UA
40	152014		90	90	94	90	85		100	90		90	85		90	95	70
41	152058		90	85		90	85		100	95		85	85	88	95	90	90
42	152008		95	95	93	85	100		95	85		90	85		95	98	100
43	152054		85	90	80	90	75		90	80		85	85		93	93	100
44	152002		95	100		85	90		95	95	96	85	95		95	98	100
45	152005		100	100		85	95	99	100	90		85	85		98	98	100

46	152018	85	80	95		80	80		90	95		85	85		85	93	100
47	152301		90	95	92	95	95		90	80		85	80		90	90	100
48	152068		80	85	80	90	95		80	80		90	80		88	83	100
49	152055		90	95	95	95	100		95	85		90	85		95	95	100
50	152033		90	95		90	95		95	90		95	90	97	100	98	100
51	152084	90	90	95		85	95		95	85		95	85		95	95	100
52	152064		95	95	95	95	95		90	90		85	90		95	95	100
53	152057	84	90	85		85	75		85	85		80	85		90	85	90
54	152102		95	85		90	95		85	80		80	80	89	93	90	90
55	152076	75	90	85		85	80		90	85		85	85		85	80	100
56	152071		95	90	94	90	90		90	85		85	85		90	88	100
57	152303		80	80		85	85	85	85	85		85	85		88	78	90
58	152040	95	95	95		95	95		85	95		90	95		93	85	100
59	152001		95	95		90	90		90	95		85	95	90	93	80	90
60	152049		90	90		85	85		85	75		80	75	70	88	75	90
61	152030		100	100	96	90	95		90	95		95	95		100	98	100
62	152006	97	95	95		90	95		90	100		95	100		100	98	100
63	152103		95	95		90	85		85	85		85	85	85	93	80	70
64	162907		100	100		100	90		90	95	93	90	95		93	90	100
65	162911		90	90		90	80		85	85		85	85	75	83	80	100
66	162912		95	95		90	85		90	80	70	85	80		90	80	100
67	162909		85	85		85	75		80	90		80	90	80	88	80	100
68	152078		95	75	98	90	75		85	75		90	75		85	80	100
69	152009	98	85	85		95	75	99	90	75		85	75		85	75	100
70	152015		95	80		90	75		90	75	99	90	75		85	75	90
71	152061		90	75		95	80		95	70		90	70	99	85	75	100
72	152302	85	85	80		85	70		90	75		95	75		90	80	100
73	152053		90	75	88	90	70		85	75		90	75		85	75	100
74	152043	98	90	75		90	70		90	75		85	75		90	75	90
75	152066		90	75	98	95	75		85	75		90	75		85	75	90
76	152029		95	80		90	75	98	85	80		85	80		90	75	80
77	152056		95	75		90	75		85	70	98	85	70		90	70	90
78	152075	98	90	75		95	75		85	70		85	70		85	80	90
79	152080		90	80		85	75		80	75		85	75	99	85	70	90
80	152022		85	75	98	90	75		90	80		85	80		90	80	90
81	152063	99	100	75		95	80		85	85		90	85		90	70	90
82	152036		85	80		85	80		90	80		85	80		90	75	80
83	152069		85	80	99	90	80		85	85		85	85		90	75	100
84	162908		100	75		95	70	98	95	70		95	70		85	75	100
85	152028		80	75		90	80		85	75	98	90	75		90	75	100
86	152031		90	75		85	80		90	75	98	80	75		90	80	100
87	162901		95	70		95	75		85	70		90	70	98	85	75	100
88	152027		80	75		90	75		90	75		90	75	85	85	75	100
89	152023		85	75		90	75		85	75	85	90	75		85	75	100
90	152073	98	80	75		90	80		85	75		90	75		90	75	100
91	162902		80	70	86	90	70		90	70		85	70		85	75	80
92	152082		85	75		90	80		90	75		85	75		85	80	100
94	152020	98	90	75		85	75		90	75		85	75		90	75	100
95	152101		85	70	86	90	75		85	80		90	80		95	80	90
96	152081		85	75		85	70		85	75		80	75	90	85	75	90

97	162905		85	80		80	75		85	80	90	90	80		90	75	90
98	152012	98	90	75		85	75		85	70		90	70		95	80	100
99	152067		85	80	98	90	70		90	80		90	80		95	80	100
100	152038	98	90	75		90	75		95	75		80	75		75	75	90
101	152025		90	70	98	90	80		85	75		80	75		90	75	100

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	23	100	100	27	100	100	13	100	100	16	100	100	20	100	100	100
C	22	100	71	27	100	70	13	100	71	15	100	69	18	100	67	89
%	95.65	100	71	100	100	70	100	100	71	93.75	100	69	90	100	67	89
L	3	3	2	3	3	2	3	3	2	3	3	1	3	3	1	3

Attainment Calculation:

Survey:

Survey	C216.1	C216.2	C216.3	C216.4	C216.5
Obtained %	95.16	94.36	95.37	95.09	92.84
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C216:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C216.1	3	3	2	2.8	3	2.92	3	2.936
C216.2	3	3	2	2.8	3	2.92	3	2.936
C216.3	3	3	2	2.8	3	2.92	3	2.936
C216.4	3	3	1	2.6	3	2.84	3	2.872
C216.5	3	3	1	2.6	3	2.84	3	2.872
C216								2.91

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C216.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C216.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C216.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C216.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C216.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C216 = \frac{C216.1 + C216.2 + C216.3 + C216.4 + C216.5}{5} = 2.91$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6501 Power System Analysis: C301
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2	CO5			CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		T1	T2	T3	T4	T5	
1	152060	96	100	98	98	96	100	100	100	100		100		100	100	100	100	100	80
2	152077	96	100	80	76	96	100	100	100	100		100		100	100	100	100	100	70
3	152044	88	93	82	74	88	100	100	100	100		100		100	100	100	100	100	70
4	152037	95	100	96	100	98	100	100	100	100		100		100	100	100	100	100	70
5	152305	88	80	50	30	88	100	100	100	100		100		100	100	100	100	100	60
6	152021	82	77	78	70	82	100	100	100	100		100		100	100	100	100	100	70
7	152050	96	87	96	84	96	100	100	100	100		100		100	100	100	100	100	60
8	152032	88	90	76	86	88	100	100	100	100		100		100	100	100	100	100	70
9	152016	96	100	88	76	96	100	100	100	100		100		100	100	100	100	100	70
10	152051	94	90	80	80	94	100	100	100	100		100		100	100	100	100	100	80
11	152019	96	97	88	88	96	100	100	100	100		100		100	100	100	100	100	80
12	152062	92	83	42	50	92	100	100	100	100		100		100	100	100	100	100	50
13	152048	92	57	78	70	92	100	100	100	100		100		100	100	100	100	100	70
14	152079	92	47	72	76	92	100	100	100	100		100		100	100	100	100	100	0
15	152013	88	80	78	78	88	100	100	100	100		100		100	100	100	100	100	50
16	152070	92	93	84	64	92	100	100	100	100		100		100	100	100	100	100	70
17	152011	96	99	92	72	96	100	100	100	100		100		100	100	100	100	100	70
18	152004	88	53	82	42	88	100	100	100	100		100		100	100	100	100	100	50
19	152039	92	57	78	58	92	100	100	100	100		100		100	100	100	100	100	50
20	152083	88	60	62	22	88	100	100	100	100		100		100	100	100	100	100	0
21	152017	96	90	96	96	96	100	100	100	100		100		100	100	100	100	100	70
22	152046	88	87	22	62	88	100	100	100	100		100		100	100	100	100	100	70
23	152059	96	100	80	100	96	100	100	100	100		100		100	100	100	100	100	50
24	152026	94	100	70	50	94	100	100	100	100		100		100	100	100	100	100	60
25	152052	96	100	92	96	96	100	100	100	100		100		100	100	100	100	100	70
26	152304	96	90	66	70	96	100	100	100	100		100		100	100	100	100	100	70
27	152047	88	97	96	88	88	90	100	100	100		100		100	100	100	100	100	70
28	152003	96	73	86	94	96	100	100	100	100		100		100	100	100	100	100	80
29	152045	88	83	84	76	88	100	100	100	100		100		100	100	100	100	100	60
30	152042	96	93	96	88	96	100	100	100	100		100		100	100	100	100	100	70
31	152065	84	100	78	70	84	100	100	100	100		100		100	100	100	100	100	80
32	152035	92	100	92	84	92	100	90	100	90		100		100	100	100	100	100	70
33	152074	88	a	62	70	88	100	100	100	100		100		100	100	100	100	100	80
34	152041	92	90	44	36	92	100	100	100	100		100		100	100	100	100	100	50
35	152034	92	100	78	70	92	100	100	100	100		100		100	100	100	100	100	70
36	152014	96	90	80	72	96	100	100	100	100		100		100	100	100	100	100	50
37	152058	96	99	92	84	96	100	100	100	100		100		100	100	100	100	100	60
38	152008	96	100	96	96	96	100	100	100	100		100		100	100	90	100	100	80
39	152054	96	77	98	98	96	100	100	100	100		100		100	100	100	100	100	60
40	152002	92	100	96	92	92	100	100	100	100		100		100	100	90	100	100	90
41	152005	97	100	98	98	97	100	100	100	100		100		100	100	100	100	100	90
42	152018	90	87	78	58	90	100	100	100	100		100		100	100	100	100	100	50
43	152301	88	80	86	66	88	100	100	100	100		100		100	100	90	100	100	70
44	152068	98	73	98	98	98	100	100	100	100		100		100	100	90	100	100	70
45	152055	92	100	82	62	92	100	100	100	100		100		100	100	100	100	100	80

46	162910	88	30	54	50	88	100	100	90	100		90		90	90	90	90	0
47	162906	80	60	64	0	80	100	100	90	100		90		80	80	80	90	0
48	162903	80	10	30	10	80	90	100	90	100		90		90	90	90	90	0
49	162904	88	70	66	46	88	90	100	90	100		90		60	90	90	90	50
50	162907	88	80	20	60	88	90	100	90	100		90		60	90	90	90	50
51	152033	74	94	80	76	88	90	90	90	90		90		90	90	90	90	80
52	152084	50	22	60	40	84	90	90	90	80		90		90	90	90	90	60
53	152064	88	44	a	a	96	90	90	80	90		90		90	90	90	90	80
54	152057	60	40	30	70	76	80	90	90	80		80		90	90	90	90	50
55	152102	40	20	40	28	80	90	90	90	80		80		90	90	90	90	50
56	152076	50	58	60	44	88	90	90	90	80		80		90	90	80	90	70
57	152071	40	60	50	68	92	90	90	90	90		90		90	90	90	90	80
58	152303	16	20	38	62	84	80	90	90	70		90		90	90	90	90	50
59	152040	40	64	70	86	80	80	90	90	90		80		90	90	90	90	70
60	152001	80	88	70	78	88	90	90	90	90		90		90	90	90	90	80
61	152049	20	4	62	38	80	70	90	90	60		90		80	90	90	90	60
62	152030	100	100	90	86	96	90	90	90	90		60		90	90	90	90	90
63	152006	90	78	80	76	96	90	90	90	90		90		90	90	90	90	70
64	152103	4	0	68	68	92	70	90	90	70		90		80	90	90	90	50
65	152078	20	28	34	66	80	90	90	90	90		70		90	90	90	90	70
66	152009	50	14	62	38	76	90	90	90	90		90		90	90	90	90	80
67	152015	80	44	80	84	96	90	90	90	90		90		90	90	90	90	80
68	152061	50	26	70	78	96	90	90	90	90		90		90	90	90	90	60
69	152302	40	34	40	68	92	90	90	90	90		90		90	90	90	90	0
70	152053	4	20	64	0	60	80	90	90	60		70		80	90	90	90	60
71	152043	25	35	66	20	76	80	90	90	60		70		80	80	90	90	50
72	152066	70	38	72	88	96	80	90	90	80		80		90	80	90	90	70
73	152029	40	76	50	62	80	90	90	90	90		80		90	90	90	90	70
74	152056	50	66	62	78	94	80	90	90	90		90		90	90	90	90	70
75	152075	40	64	64	72	84	90	90	90	90		90		90	90	90	90	70
76	152080	30	22	38	62	92	90	90	90	90		90		90	90	90	90	70
77	152022	60	40	72	88	88	90	90	90	90		90		90	90	90	90	80
78	152063	80	76	68	80	84	90	90	90	80		80		90	90	90	90	70
79	152036	16	0	52	64	88	90	90	90	80		80		90	90	90	90	50
80	152069	90	78	84	96	88	80	90	90	90		90		90	90	90	90	80
81	152028	90	74	88	76	88	90	90	90	90		90		90	90	90	90	80
82	152031	60	40	80	36	80	90	90	90	80		80		90	90	90	90	70
83	152023	60	52	60	88	60	80	90	90	80		80		90	90	90	90	80
84	152027	70	58	48	60	80	90	90	90	80		80		90	90	90	90	70
85	152073	20	0	50	26	60	90	90	90	50		60		80	90	90	90	0
86	152082	60	16	70	58	86	80	90	90	70		70		80	90	90	90	50
87	152020	60	62	48	52	84	90	90	90	80		80		90	90	90	90	50
88	152101	16	40	54	58	52	80	90	90	80		80		80	90	90	90	0
89	152081	20	20	20	0	a	80	90	90	80		80		80	90	90	90	50
90	152012	72	72	96	88	80	90	90	90	90		90		90	90	90	90	70
91	152067	90	82	97	85	96	90	90	90	90		90		90	90	90	90	80
92	152038	70	74	72	76	92	90	90	90	90		90		90	90	90	90	70
93	152025	60	64	82	74	a	90	90	90	90		90		90	90	90	90	80
94	162911	20	8	30	38	28	80	90	90	60		60		80	90	90	90	0
95	162912	16	0	a	a	72	80	90	80	70		60		80	80	80	80	0

96	162909	8	0	50	62	68	80	80	60	40		50		80	80	80	80	80	50
97	162908	10	10	30	18	a	80	80	60	40		50		80	80	80	80	80	50
98	162901	24	20	40	64	64	80	80	50	70		70		80	80	80	80	80	50
99	162902	60	40	30	26	a	90	70	80	80		80		80	80	90	80	80	50
100	162905	40	0	50	22	80	80	90	80	60		60		80	90	80	80	80	50
101	172401	20	8	50	50	56	80	60	80	40		40		80	80	80	80	80	0

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count																		
	CIT					Assignments			Survey		Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2		CO5		CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		T1	T2	T3	T4	T5	
C	72	60	71	69	94	99	99	98	92		93		99	101	101	101	101	56
%	71.29	60	71.72	69.7	96.91	98.02	98.02	97.03	91.09		92.08		98.02	100	100	100	100	55.45
L	2	1	2	1	3	3	3	3	3		3		3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C301.1	C301.2	C301.3	C301.4	C301.5
Obtained %	97.4	95.98	96.19	96.69	95.25
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C301:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C301.1	2	3	-	-	3	2.4	0	0.96	3	1.37
C301.2	1	3	3	-	3	1.8	0	0.72	3	1.18
C301.3	2	3	-	-	3	2.4	0	0.96	3	1.37
C301.4	1	-	-	-	3	1.6	0	0.64	3	1.11
C301.5	3	-	-	3	3	3	0	1.2	3	1.56
C301										1.32

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C301.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C301.2	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Seminar + 0.2*Tutorial]
C301.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C301.4	AU Exam	[0.7*Internal Test + 0.3*Tutorial]
C301.5	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.3*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C301 = \frac{C301.1 + C301.2 + C301.3 + C301.4 + C301.5}{5} = 1.32$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6502 Microprocessors and Microcontrollers: C302
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO4	CO5	CO3	CO1		
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1		
1.	152060	88	100	28	17	92	100	90	90	90	100		70
2.	152077	84	97	18	14	64	100	90	90	90	80		70
3.	152044	52	80	10	2	24	100	90	90	90	50		60
4.	152037	88	100	60	18	68	100	90	90	90	80		90
5.	152305	52	73	5	5	20	100	90	90	90	100		70
6.	152021	76	77	11	14	50	100	90	90	90	100		70
7.	152050	A	40	6	5	22	100	90	90	90	100		70
8.	152032	50	77	A	A	A	100	90	90	90	100		80
9.	152016	50	67	16	0	8	100	90	90	90	100		70
10.	152051	68	73	17	18	70	100	90	90	90	100		80
11.	152019	68	93	60	20	74	100	90	90	90	50		90
12.	152062	50	70	19	6	50	100	90	90	90	10		50
13.	152048	64	67	5	0	18	100	90	90	90	100		70
14.	152079	22	57	3	3	12	100	90	90	90	100		50
15.	152013	68	93	12	18	60	100	90	90	90	100		50
16.	152070	76	83	13	12	50	100	90	90	90	100		70
17.	152011	88	87	16	20	72	100	90	90	90	90		70
18.	152004	52	60	5	5	20	100	90	90	90	100		60
19.	152039	60	33	3	15	36	100	90	90	90	100		0
20.	152083	40	37	0	9	18	100	90	90	90	100		0
21.	152017	50	37	12	13	50	100	90	90	90	100		70
22.	152046	70	77	11	5	32	100	90	90	90	100		70
23.	152059	72	90	14	21	70	100	90	90	90	100		70
24.	152026	92	97	15	22	74	100	90	90	90	100		80
25.	152052	68	93	19	19	76	100	90	90	90	100		80
26.	152304	72	93	13	17	60	100	90	90	90	80		60
27.	152047	56	83	A	A	A	100	90	90	90	60		50
28.	152003	84	93	17	26	86	100	90	90	90	50		70
29.	152045	88	87	15	21	72	100	90	90	90	100		90
30.	152042	76	87	19	24	86	100	90	90	90	100		80
31.	152065	66	90	13	22	70	100	90	90	90	100		90
32.	152035	74	87	15	21	72	100	90	90	90	100		70
33.	152074	88	A	15	22	74	100	90	90	90	50		70
34.	152041	74	77	14	11	50	100	90	90	90	100		50
35.	152034	66	80	13	18	62	100	90	90	90	100		80
36.	152014	78	87	11	19	60	100	90	90	90	100		60
37.	152058	84	87	24	12	72	100	90	90	90	60		70
38.	152008	88	93	28	14	84	100	90	90	90	50		80
39.	152054	72	60	4	14	36	100	90	90	90	100		70
40.	152002	84	97	16	24	80	100	90	90	90	40		70
41.	152005	84	100	19	25	88	100	90	90	90	40		80
42.	152018	62	77	18	6	48	100	90	90	90	100		50
43.	152301	66	93	15	10	50	100	90	90	90	100		80
44.	152068	50	73	18	7	60	100	90	90	90	100		70
45.	152055	86	93	19	23	84	100	90	90	90	40		80

46.	162910	24	37	4	14	36	100	90	90	90		100	50
47.	162906	32	70	5	10	30	100	90	90	90		100	0
48.	162903	35	33	2	6	16	100	90	90	90		60	0
49.	162904	60	53	2	7	18	100	90	90	90		100	50
50.	162907	34	67	11	16	54	100	90	90	90		40	70
51.	152033	86	74	60	60	94	100	90	90	90		90	70
52.	152084	50	50	54	62	68	100	90	90	90		90	90
53.	152064	88	84	86	94	92	90	90	90	90		80	60
54.	152057	50	54	84	76	82	100	90	90	90		90	60
55.	152102	48	52	66	74	68	90	90	90	90		80	50
56.	152076	60	60	A	A	60	100	90	90	90		90	60
57.	152071	72	76	70	66	75	90	90	90	90		90	70
58.	152303	40	20	10	10	30	90	90	90	90		80	50
59.	152040	88	84	56	64	66	90	90	90	90		90	80
60.	152001	80	84	84	80	82	90	90	90	90		90	90
61.	152049	10	10	6	6	60	100	90	90	90		90	50
62.	152030	90	90	84	84	84	100	90	90	90		80	80
63.	152006	84	80	80	84	82	90	90	90	90		90	80
64.	152103	50	50	68	72	74	90	90	90	90		90	50
65.	152078	90	70	86	90	80	90	90	90	90		90	70
66.	152009	60	80	74	70	74	90	90	90	90		90	60
67.	152015	62	82	60	64	64	90	90	90	90		90	70
68.	152061	82	82	84	80	86	90	90	90	90		80	60
69.	152302	94	74	92	88	90	90	90	90	90		90	60
70.	152053	24	24	6	66	6	90	90	90	90		90	50
71.	152043	86	90	A	A	76	90	90	90	90		80	50
72.	152066	66	62	70	63	67	90	90	90	90		90	80
73.	152029	60	60	50	50	50	100	90	90	90		90	50
74.	152056	72	76	68	72	70	100	90	90	90		90	60
75.	152075	80	80	84	80	82	100	90	90	90		80	70
76.	152080	62	66	88	80	84	100	90	90	90		90	60
77.	152022	86	94	88	80	76	100	90	90	90		90	70
78.	152063	64	60	80	88	66	100	90	90	90		90	80
79.	152036	66	58	88	80	84	100	90	90	90		90	80
80.	152069	90	90	70	78	74	100	90	90	90		100	90
81.	152028	58	62	60	72	66	100	90	90	90		100	70
82.	152031	72	68	50	58	54	100	90	90	90		100	50
83.	152023	70	70	88	72	80	100	90	90	90		90	80
84.	152027	80	76	30	30	60	100	90	90	90		90	70
85.	152073	48	52	30	16	60	100	90	90	90		80	50
86.	152082	70	66	60	64	66	100	90	90	90		80	50
87.	152020	90	88	94	94	86	100	90	90	90		90	60
88.	152101	50	50	20	32	30	100	90	90	90		80	0
89.	152081	46	54	20	16	54	100	90	90	90		80	50
90.	152012	76	80	84	80	80	100	90	90	90		80	80
91.	152067	74	78	98	90	82	100	90	90	90		100	90
92.	152038	90	90	90	90	92	100	90	90	90		100	80
93.	152025	A	A	10	18	80	100	90	90	90		80	60
94.	162911	22	22	30	38	70	100	90	90	90		90	50
95.	162912	32	34	30	34	84	90	90	90	90		90	0

96.	162909	80	76	70	70	74	90	90	90	90		90		50
97.	162908	32	32	30	38	A	90	90	90	90		90		50
98.	162901	64	56	60	68	52	90	90	90	90		80		0
99.	162902	80	84	56	64	86	90	90	90	90		90		50
100.	162905	22	22	20	20	20	90	90	90	90		90		0
101.	172401	26	26	A	A	54	90	90	90	90		70		50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C(7)$ grade in AU L – Level, C-Count													
	CIT					Assignment			Seminar		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO4	CO5	CO3		CO1		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		
C	68	74	33	35	66	101	101	101	101		88		55
%	68.69	74.75	34.38	36.46	67.35	100	100	100	100		87.13		54.46
L	1	2	0	0	1	3	3	3	3		3		0

Attainment Calculation:

Survey:

Survey	C302.1	C302.2	C302.3	C302.4	C302.5
Obtained %	94.49	94.51	92.63	91.02	91.95
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C302:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C302.1	1	-	-	3		1.4	0	0.56	3	1.05
C302.2	2	3	-	-		2.3	0	0.92	3	1.34
C302.3	0	-	3	-		0.6	0	0.24	3	0.79
C302.4	0	3	-	-		0.9	0	0.36	3	0.89
C302.5	1	3	-	-		1.6	0	0.64	3	1.11
C302										1.04

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C302.1	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C302.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C302.3	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C302.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C302.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C302 = \frac{C302.1 + C302.2 + C302.3 + C302.4 + C302.5}{5} = 1.04$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: ME6701 Power Plant Engineering: C303
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO5	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	152060	96	96	100	98	99	90	90	100	100	90	80
2	152077	84	96	100	92	98	90	100	90	90	90	70
3	152044	64	79	80	60	90	100	100	90	90	70	70
4	152037	80	96	96	100	97	90	90	100	95	95	80
5	152305	12	56	60	80	80	90	100	80	70	70	60
6	152021	68	75	94	90	94	100	100	80	78	85	50
7	152050	72	75	80	60	90	90	90	80	76	70	50
8	152032	88	85	50	66	88	90	100	80	90	70	50
9	152016	24	89	50	58	95	80	90	80	92	70	60
10	152051	50	69	100	84	94	80	90	80	72	90	80
11	152019	60	75	84	100	94	80	90	90	76	95	70
12	152062	40	59	50	50	94	80	90	80	65	70	50
13	152048	4	23	90	86	70	80	90	80	60	80	50
14	152079	24	60	90	94	90	80	90	80	70	90	60
15	152013	76	96	98	96	98	80	90	80	96	90	50
16	152070	76	92	80	100	97	80	90	80	95	90	50
17	152011	92	93	92	96	99	95	90	100	95	90	70
18	152004	8	85	70	66	65	80	80	80	80	80	60
19	152039	20	53	30	30	90	70	80	80	60	70	70
20	152083	36	56	22	30	60	80	80	80	70	70	0
21	152017	24	85	78	70	60	80	80	80	80	80	50
22	152046	60	66	90	70	80	80	80	80	68	80	70
23	152059	80	76	92	92	92	90	90	90	98	90	70
24	152026	80	96	80	84	96	100	90	90	90	90	70
25	152052	84	96	86	86	96	80	100	90	92	90	70
26	152304	80	72	90	70	92	100	90	90	93	75	70
27	152047	88	82	85	71	95	80	90	90	92	80	70
28	152003	92	99	96	100	95	100	100	90	94	95	80
29	152045	84	89	60	64	95	80	90	90	94	70	60
30	152042	68	85	86	90	99	100	100	90	90	90	70
31	162910	8	18	40	20	70	80	80	80	70	80	50
32	162906	16	60	8	0	70	80	80	80	70	80	0
33	162903	28	15	8	8	60	80	80	80	70	70	0
34	162904	16	60	70	46	65	80	80	80	80	70	50
1	152065	88	86	72	100	95	95	100	90	93	90	80
2	152035	72	96	86	90	99	100	100	90	94	85	70
3	152074	88	A	86	90	94	100	90	90	93	85	80
4	152041	68	75	80	80	90	80	90	90	91	90	80
5	152034	68	96	50	82	99	100	100	90	92	85	70
6	152014	76	86	90	94	94	95	100	90	92	90	70
7	152058	76	82	90	98	96	95	100	90	94	95	70
8	152008	96	96	96	100	96	95	100	90	91	95	80
9	152054	28	80	60	28	99	100	90	90	80	80	60
10	152002	88	96	99	99	99	95	100	100	80	90	80
11	152005	92	96	100	96	99	100	100	100	80	90	90

12	152018	68	75	84	100	A	80	90	90	70		90	60
13	152301	64	60	68	80	94	100	90	90	70		90	60
14	152068	60	96	90	90	90	80	90	90	80		90	80
15	152055	92	85	90	98	99	90	90	100	90		80	70
16	152033	84	96	100	68	96	90	90	100	90		90	70
17	152084	80	80	92	68	80	90	90	95	90		80	70
18	152064	96	88	92	68	84	90	90	100	90		80	70
19	152057	56	76	92	64	88	90	90	95	80		80	0
20	152102	72	68	100	68	80	90	90	100	80		80	80
21	152076	80	72	76	96	80	90	90	80	80		90	70
22	152071	100	96	64	100	92	100	90	80	80		80	70
23	152303	A	A	52	64	92	80	90	85	80		80	60
24	152040	76	84	68	96	76	90	90	85	80		80	70
25	152001	88	76	72	96	A	80	90	90	80		80	70
26	152049	60	80	76	60	68	80	90	90	80		80	70
27	152030	96	96	72	100	92	90	90	100	70		80	80
28	152006	92	88	80	100	96	90	90	100	70		90	70
29	152103	12	0	64	100	92	90	90	90	80		80	80
30	162907	50	42	70	70	80	100	80	80	80		70	0
31	162911	32	32	72	64	72	90	90	85	80		80	0
32	162912	32	56	72	100	92	80	90	85	80		80	60
33	162909	96	84	72	100	84	80	90	85	70		80	70
1	152078	96	96	100	64	92	80	80	90	90		90	80
2	152009	84	88	100	68	92	90	90	100	90		90	80
3	152015	80	64	76	100	92	90	90	85	80		80	80
4	152061	80	80	100	72	96	90	90	100	80		80	80
5	152302	96	72	100	92	96	90	90	100	80		90	80
6	152053	56	68	100	84	88	100	90	100	80		80	80
7	152043	80	84	56	64	76	90	90	80	80		80	70
8	152066	88	44	80	80	92	80	90	80	80		80	90
9	152029	86	96	56	100	92	100	90	85	90		80	90
10	152056	96	84	72	100	60	80	90	90	80		80	70
11	152075	96	100	100	88	92	90	90	100	90		90	70
12	152080	84	84	76	100	92	90	90	100	100		80	70
13	152022	88	92	100	88	96	90	90	100	100		90	80
14	152063	94	86	100	70	96	90	90	100	90		80	60
15	152036	96	56	100	68	A	90	90	95	90		80	80
16	152069	A	A	64	100	96	90	90	80	80		90	70
17	152028	84	88	68	100	88	80	90	100	90		90	70
18	152031	98	94	72	100	96	90	90	90	90		80	70
19	152023	96	80	56	92	92	90	90	90	90		80	70
20	152027	72	60	64	76	88	80	90	85	90		80	60
21	152073	60	76	42	76	92	90	90	85	80		80	70
22	152082	88	80	100	64	92	90	90	100	70		80	80
23	152020	96	96	100	88	92	90	90	95	90		80	70
24	152101	64	72	52	76	68	80	90	85	80		80	50
25	152081	44	84	70	62	76	90	90	90	70		80	50
26	152012	88	84	100	68	88	90	90	100	90		90	70
27	152067	96	88	92	100	96	100	100	100	90		80	70
28	152038	98	82	80	100	92	90	90	95	80		80	80

29	152025	92	80	78	82	80	90	90	80	80		80	60
30	162908	54	66	52	94	32	80	90	90	70		80	50
31	162901	90	82	92	72	84	80	90	95	80		80	60
32	162902	70	74	56	96	84	90	90	90	70		80	50
33	162905	80	68	60	100	92	80	90	90	80		80	50
34	172401	40	28	40	40	60	90	90	90	70		80	0

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU													
L – Level, C-Count													
	CIT					Assignment			Seminar		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO5		CO4		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		
C	75	84	83	91	97	100	101	101	99		101		65
%	75.76	85.71	82.18	90.1	98.98	99.01	100	100	98.02		100		64.36
L	2	3	3	3	3	3	3	3	3		3		1

Attainment Calculation:

Survey:

Survey	C303.1	C303.2	C303.3	C303.4	C303.5
Obtained %	96.95	96.95	95.51	95.09	95.32
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C303:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C303.1	2	3	-	-		2.3	1	1.52	3	1.82
C303.2	3	3	-	-		3	1	1.8	3	2.04
C303.3	3	3	-	-		3	1	1.8	3	2.04
C303.4	3	-	-	3		3	1	1.8	3	2.04
C303.5	3	-	3	-		3	1	1.8	3	2.04
C303										2

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C303.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C303.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C303.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C303.4	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C303.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C303 = \frac{C303.1 + C303.2 + C303.3 + C303.4 + C303.5}{5} = 2$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6503 Power Electronics: C304
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO5	CO3	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1.	152060	92	88	97	90	96	100	100	100	100	100	80
2.	152077	A	A	90	60	84	100	100	100	100	100	70
3.	152044	28	80	100	70	72	100	100	100	80	80	50
4.	152037	52	56	100	93	92	100	100	100	100	100	80
5.	152305	32	0	73	60	72	100	80	100	80	100	60
6.	152021	60	76	70	53	84	100	100	100	100	100	50
7.	152050	48	52	73	85	60	100	100	100	100	100	70
8.	152032	44	76	80	80	84	100	100	100	100	100	50
9.	152016	0	63	75	53	60	100	80	90	80	100	50
10.	152051	68	64	97	85	84	100	100	100	80	80	60
11.	152019	68	68	90	93	88	100	100	100	90	100	70
12.	152062	44	56	53	50	68	100	100	100	90	100	50
13.	152048	16	0	A	A	60	80	80	90	80	80	50
14.	152079	56	44	60	43	40	100	100	100	90	90	0
15.	152013	92	84	70	65	76	100	80	100	100	100	70
16.	152070	40	60	73	70	68	100	80	100	100	100	50
17.	152011	44	76	93	85	92	100	100	100	100	100	70
18.	152004	24	20	80	67	72	100	100	80	90	90	60
19.	152039	84	80	83	40	52	100	90	80	80	80	50
20.	152083	32	16	37	40	52	70	80	80	30	30	0
21.	152017	76	76	80	50	60	100	80	100	80	80	70
22.	152046	64	80	75	70	88	100	80	80	100	100	70
23.	152059	56	44	80	55	92	100	100	100	100	100	70
24.	152026	56	80	80	60	88	100	100	100	90	90	60
25.	152052	84	84	80	80	96	100	100	100	80	100	60
26.	152304	64	76	90	95	84	100	100	100	100	100	60
27.	152047	48	96	80	87	88	100	100	90	100	100	60
28.	152003	72	60	97	95	76	100	100	100	100	100	70
29.	152045	60	56	90	67	68	100	100	100	A	80	50
30.	152042	52	76	100	73	80	100	100	90	100	100	70
31.	152065	64	68	95	77	76	100	90	100	100	100	80
32.	152035	40	60	80	63	68	100	100	100	100	100	50
33.	152074	84	52	83	90	52	100	100	100	100	100	70
34.	152041	56	60	40	57	72	100	100	100	100	100	50
35.	152034	28	76	80	60	72	100	90	100	100	100	50
36.	152014	68	60	80	80	72	100	100	100	100	100	60
37.	152058	92	72	95	87	68	100	100	100	100	100	70
38.	152008	92	88	97	95	84	100	100	100	100	100	80
39.	152054	36	44	85	90	68	100	100	100	90	90	70
40.	152002	68	88	100	93	88	100	100	100	100	100	70
41.	152005	96	92	100	93	80	100	100	100	100	100	70
42.	152018	12	56	90	57	A	100	100	100	100	100	0
43.	152301	88	68	90	80	84	100	100	100	100	100	50
44.	152068	40	36	93	95	64	100	100	90	90	90	50
45.	152055	A	A	90	85	72	100	100	100	100	100	70

46.	162910	20	36	60	43	52	100	100	90	90	90	50
47.	162906	20	80	67	45	76	100	80	90	80	80	50
48.	162903	8	0	33	20	28	100	80	90	90	90	0
49.	162904	32	72	67	55	56	100	80	90	80	80	60
50.	162907	48	84	50	60	72	100	100	100	90	90	50
51.	152033	75	68	100	84	72	100	100	100	90	100	70
52.	152084	50	65	80	78	72	100	100	100	90	100	70
53.	152064	95	62	80	94	72	100	100	100	70	100	60
54.	152057	45	50	80	A	44	100	90	100	100	100	50
55.	152102	39	34	A	52	60	100	80	100	100	90	50
56.	152076	35	56	88	80	56	100	80	80	90	100	60
57.	152071	75	54	A	82	80	90	100	100	80	80	50
58.	152303	45	36	92	88	16	90	70	70	90	70	50
59.	152040	85	70	84	84	72	100	100	100	80	100	60
60.	152001	78	86	96	100	A	90	100	100	70	100	80
61.	152049	15	50	88	50	12	100	70	70	60	80	0
62.	152030	65	70	92	100	80	100	100	100	70	100	70
63.	152006	75	52	96	84	52	100	100	100	60	100	70
64.	152103	65	30	84	76	12	100	70	70	70	70	50
65.	152078	75	40	A	64	72	100	100	100	80	100	50
66.	152009	75	56	80	72	68	100	100	100	80	100	70
67.	152015	55	80	84	92	56	90	100	100	80	100	70
68.	152061	35	96	100	100	76	80	100	100	80	100	60
69.	152302	38	32	100	50	72	100	100	100	80	100	50
70.	152053	45	30	80	72	36	100	90	100	90	80	50
71.	152043	35	26	88	50	64	100	90	90	90	80	50
72.	152066	50	50	96	A	80	100	80	80	90	60	50
73.	152029	44	97	96	70	72	100	100	70	70	100	60
74.	152056	36	82	96	94	72	100	100	100	80	100	60
75.	152075	68	72	80	78	64	100	100	100	70	100	70
76.	152080	64	52	80	76	64	100	100	90	70	100	0
77.	152022	56	90	100	82	80	100	100	80	60	100	70
78.	152063	65	50	88	88	44	100	100	90	70	100	70
79.	152036	55	58	92	86	A	100	90	90	70	90	60
80.	152069	85	0	88	88	72	100	100	90	70	100	70
81.	152028	80	62	92	96	60	100	100	90	70	100	50
82.	152031	70	50	84	96	48	100	100	100	80	100	60
83.	152023	36	64	92	90	60	100	90	100	80	90	60
84.	152027	68	56	A	78	64	100	90	100	80	90	0
85.	152073	60	60	64	50	64	100	90	100	80	80	0
86.	152082	35	76	60	82	76	100	90	100	80	80	50
87.	152020	65	72	88	86	48	90	100	100	70	90	70
88.	152101	40	40	84	50	40	100	80	100	70	70	50
89.	152081	35	52	64	30	40	90	80	100	70	100	50
90.	152012	90	74	68	96	80	100	100	100	70	100	60
91.	152067	90	72	92	100	76	90	100	100	80	100	80
92.	152038	95	66	96	96	76	80	100	100	80	100	50
93.	152025	90	48	84	88	40	80	100	100	80	100	70
94.	162911	60	14	64	40	40	70	80	90	90	100	50
95.	162912	55	54	56	52	48	100	80	80	70	100	0

96.	162909	50	64	64	72	56	100	80	90	70	100	50
97.	162908	38	72	72	84	56	90	70	100	80	100	0
98.	162901	50	76	76	58	76	90	70	100	80	100	0
99.	162902	75	92	92	78	72	90	100	100	70	100	50
100.	162905	55	76	76	70	48	80	100	90	70	100	0
101.	172401	14	72	72	A	40	80	80	70	70	80	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU |
L – Level, C-Count

	CIT					Assignment			Seminar	Quiz	AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO5	CO3	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
C	45	58	90	73	71	99	96	96	96	99	34
%	45.45	58.59	93.75	75.26	72.45	98.02	95.05	95.05	96	98.02	33.66
L	0	0	3	2	2	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C304.1	C304.2	C304.3	C304.4	C304.5
Obtained %	90.2	89.9	90.19	91.33	90.66
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C304:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C304.1	0	-	-	-		0	0	0	3	0.6
C304.2	0	3	-	-		0.9	0	0.36	3	0.89
C304.3	3	3	-	3		3	0	1.2	3	1.56
C304.4	2	3	-	-		2.3	0	0.92	3	1.34
C304.5	2	-	3	-		2.2	0	0.88	3	1.3
C304										1.14

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C304.1	AU Exam	[1*Internal Test]
C304.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C304.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C304.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C304.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C304 = \frac{C304.1 + C304.2 + C304.3 + C304.4 + C304.5}{5} = 1.14$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6504 Electrical Machines II: C305
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Tutorial				AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO1	CO2	CO3	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	T1	T2	T3	T4	
1	152060	100	100	100	80	100	90	90	80	100	90	90	100	80
2	152077	a	90	60	60	72	90	80	80	100	90	80	100	80
3	152044	56	60	56	64	44	90	90	70	60	60	80	100	50
4	152037	84	92	100	68	88	100	80	90	100	90	90	100	80
5	152305	40	8	24	24	72	100	80	80	70	90	80	100	50
6	152021	68	56	44	26	80	80	60	60	80	60	80	100	50
7	152032	56	60	28	36	72	80	90	70	100	60	90	90	50
8	152050	48	52	72	64	92	80	90	80	80	60	80	90	60
9	152016	56	92	44	80	40	80	90	60	60	90	90	90	50
10	152051	60	88	100	72	100	60	90	80	100	90	90	80	70
11	152019	80	100	76	72	100	90	80	70	100	90	90	90	80
12	152062	48	8	68	32	72	90	90	80	60	60	80	90	0
13	152048	4	0	8	32	64	80	80	60	60	60	80	90	0
14	152079	68	68	52	56	88	90	80	80	60	60	60	90	50
15	152013	56	44	48	56	72	80	70	80	80	60	40	80	0
16	152070	56	52	60	40	48	60	90	60	80	60	80	90	0
17	162910	4	0	80	32	64	80	80	60	60	60	80	90	0
18	152011	88	84	88	76	84	90	90	80	80	80	60	90	70
19	162906	40	80	32	24	64	80	70	70	70	80	80	90	0
20	152004	40	12	62	52	64	80	70	70	80	60	80	90	50
21	152039	24	40	24	20	48	80	80	60	60	60	80	90	50
22	152083	44	56	16	12	72	60	60	90	80	50	80	90	50
23	152017	68	56	60	40	84	60	60	60	80	50	80	90	50
24	152046	64	44	68	64	84	60	60	60	100	60	80	90	70
25	152059	56	68	72	72	88	90	80	80	100	80	80	90	70
26	152026	92	100	76	60	72	100	90	90	100	80	80	90	0
27	152052	68	44	60	36	96	90	80	80	100	90	90	80	80
28	152304	60	48	80	36	60	80	70	80	100	80	80	90	60
29	152047	44	68	56	52	76	80	80	80	100	80	80	80	70
30	152003	88	92	60	60	84	90	80	90	100	60	90	90	60
31	152045	80	68	100	56	80	90	90	90	100	80	80	90	50
32	162903	8	4	12	28	36	80	80	60	20	60	90	90	0
33	152042	84	88	84	68	84	100	90	60	100	80	80	90	70
34	152065	52	12	72	64	96	90	90	90	100	90	80	100	70
35	152035	84	88	56	72	84	90	90	80	100	100	90	100	50
36	152074	48	72	56	56	96	100	80	80	100	80	80	100	70
37	162904	28	80	28	32	56	80	80	80	80	80	80	90	0
38	152041	52	48	16	8	80	90	80	100	100	80	80	80	50
39	152034	68	72	80	20	68	80	70	60	100	80	80	80	50
40	152014	64	60	76	72	84	90	90	70	100	80	90	80	70
41	162907	72	52	48	72	84	100	80	60	80	80	80	80	50
42	152058	68	40	68	44	96	90	60	80	100	100	80	90	80
43	152008	68	52	88	80	96	100	90	90	100	80	80	90	70
44	152054	48	52	68	12	64	100	90	90	80	80	90	90	50
45	152002	84	100	88	64	100	100	70	80	100	80	80	90	70

46	152005	72	100	96	72	100	100	60	60	100	80	80	90	80
47	152018	88	48	52	48	a	90	100	60	60	100	80	90	50
48	152301	64	44	72	72	80	100	90	90	100	80	80	90	50
49	152068	40	80	72	52	72	80	80	80	80	80	80	60	70
50	152055	44	44	92	64	92	80	80	80	80	80	80	90	60
51	152033	64	40	92	64	92	90	90	80	80	80	90	90	80
52	152084	80	36	92	36	56	100	100	80	80	80	90	90	0
53	152064	76	40	88	72	84	90	80	80	90	60	80	80	50
54	152057	64	36	a	a	24	60	70	80	80	80	80	80	50
55	162911	32	16	a	a	32	60	70	60	80	90	80	80	0
56	152102	88	44	0	40	56	80	70	90	80	80	80	80	0
57	152071	48	24	44	64	60	80	80	80	90	80	80	80	0
58	152076	56	44	72	48	44	80	80	80	80	60	90	90	50
59	152303	32	32	32	28	a	80	80	80	80	80	80	80	0
60	152040	56	60	24	56	92	80	80	80	80	60	80	80	80
61	162912	20	12	84	16	32	70	60	70	80	80	80	80	0
62	152001	76	24	80	60	a	80	90	80	80	80	90	90	80
63	152049	36	36	16	0	a	80	90	80	80	80	90	90	50
64	152030	76	100	72	88	88	100	80	100	80	80	80	80	80
65	152006	56	0	100	72	80	90	90	80	90	60	80	80	70
66	152103	24	16	40	0	28	100	80	80	90	80	80	80	0
67	152078	48	16	64	36	80	90	90	80	90	80	80	80	50
68	152009	76	88	100	40	76	100	80	80	90	80	80	80	50
69	152015	76	24	92	68	80	100	80	90	80	80	70	70	70
70	152061	68	32	50	80	88	100	80	80	80	60	70	70	70
71	152302	56	64	100	72	96	100	90	50	90	80	80	80	70
72	152053	42	56	8	16	36	80	90	60	90	80	80	80	50
73	152043	44	32	a	a	32	80	80	60	80	80	60	60	0
74	152066	68	72	88	68	68	90	80	80	80	80	70	70	70
75	152029	76	28	40	76	60	80	80	60	90	80	80	80	70
76	162909	28	40	36	24	60	100	100	100	90	80	90	80	0
77	152056	72	48	32	68	72	80	90	60	80	80	90	90	60
78	152075	72	24	72	68	64	90	80	70	80	80	80	80	50
79	152080	86	52	88	64	80	60	80	60	80	80	90	80	60
80	152022	80	82	64	80	84	80	80	40	80	80	90	80	70
81	152063	80	80	100	76	68	80	80	40	90	60	90	80	70
82	152036	72	28	a	a	68	80	80	40	80	80	90	80	0
83	152069	68	56	92	68	86	80	80	80	80	80	80	90	70
84	162908	48	52	20	8	44	60	60	60	90	80	80	80	0
85	152028	84	40	76	48	76	80	60	60	80	60	80	90	60
86	152031	84	76	68	52	84	80	80	60	90	80	80	90	70
87	162901	52	56	52	20	84	60	60	60	80	80	80	60	0
88	152027	40	40	0	64	56	100	90	80	80	60	80	80	60
89	152023	76	48	64	40	80	80	80	50	80	80	80	80	70
90	152073	72	28	32	32	64	80	60	60	80	80	80	80	0
91	162902	84	16	60	56	60	60	80	60	80	80	80	60	60
92	152082	48	52	32	20	64	70	70	60	90	80	80	90	50
93	172401	24	32	a	a	32	60	60	60	80	80	80	80	50
94	152020	40	80	20	56	60	60	80	60	90	80	80	90	50
95	152101	4	16	12	0	68	80	80	60	90	60	80	90	0

96	152081	40	32	4	20	a	70	70	60	90	80	80	80	0
97	162905	48	52	36	76	72	60	60	60	90	90	80	60	0
98	152012	80	80	92	60	72	80	100	90	80	80	60	80	70
99	152067	76	88	80	72	92	80	100	80	80	60	80	80	70
100	152038	76	88	100	60	92	80	80	60	80	80	80	80	90
101	152025	60	40	72	72	52	60	80	60	80	80	80	90	70

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C(7)$ grade in AU L – Level, C-Count														
	CIT					Assignments			Tutorial				AU	
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO1	CO2	CO3	CO4		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	T1	T2	T3	T4		
C	53	37	57	46	77	83	77	54	92	74	96	96		38
%	53	36.63	59.38	47.92	80.21	82.18	76.24	53.47	91.09	73.27	95.05	95.05		37.62
L	0	0	0	0	3	3	2	0	3	2	3	3		0

Attainment Calculation:

Survey:

Survey	C305.1	C305.2	C305.3	C305.4	C305.5
Obtained %	98.08	97.63	98.1	98.1	98.1
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C305:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C305.1	0	3			3	1.2	0	0.48	3	0.98
C305.2	0	2			2	0.8	0	0.32	3	0.86
C305.3	0	0			3	0.6	0	0.24	3	0.79
C305.4	0	-			3	0.9	0	0.36	3	0.89
C305.5	3	-			-	3	0	1.2	3	1.56
C305										1.02

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C305.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C305.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C305.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C305.4	AU Exam	[0.7*Internal Test + 0.3*Tutorial]
C305.5	AU Exam	[1*Internal Test]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C305 = \frac{C305.1 + C305.2 + C305.3 + C305.4 + C305.5}{5} = 1.02$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:IC6501 Control Systems: C306

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO3	CO5	CO5	CO5		CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1	T1	T2	T3	T4	T5	
1	152060	96	80	92	76	96	90	90	90	90		90	90	90	90	90	90	80
2	152077	A	A	94	94	100	90	90	90	90		90	90	90	90	90	90	80
3	152044	56	64	68	64	68	80	90	90	80		80	80	90	90	90	90	80
4	152037	100	100	100	100	96	90	90	90	90		90	90	90	90	90	90	90
5	152305	20	8	32	72	96	80	80	80	90		90	80	80	80	90	90	50
6	152021	64	40	90	90	88	80	90	90	90		90	80	90	90	90	90	80
7	152050	32	68	20	32	72	80	80	80	90		90	80	90	80	90	90	60
8	152032	74	38	36	20	84	80	80	80	90		90	80	80	90	90	90	70
9	152016	24	0	60	40	80	80	80	80	80		80	80	90	80	90	90	50
10	152051	90	78	78	54	100	90	90	90	90		90	90	90	90	90	90	70
11	152019	90	50	68	80	100	90	90	90	90		90	90	90	90	90	90	90
12	152062	10	10	62	38	60	80	90	90	80		80	80	80	90	90	90	0
13	152048	4	0	36	0	76	80	80	90	80		80	80	80	80	90	90	70
14	152079	24	0	64	36	80	80	90	90	80		80	80	80	90	90	90	50
15	152013	36	64	86	70	100	80	90	90	90		90	80	80	90	90	90	70
16	152070	62	46	76	84	96	90	90	90	90		90	80	90	90	90	90	50
17	152011	66	82	94	94	100	90	90	90	90		90	90	90	90	90	90	70
18	152004	40	72	50	62	84	80	90	90	80		80	80	90	90	90	90	50
19	152039	58	58	76	56	84	80	90	90	80		80	80	90	90	90	90	0
20	152083	56	0	40	12	52	80	80	80	80		80	80	80	80	90	90	0
21	152017	84	16	68	32	80	80	90	90	80		80	80	90	90	90	90	70
22	152046	14	14	80	64	68	80	80	80	80		80	80	80	80	90	90	70
23	152059	86	82	92	92	96	90	90	90	90		90	90	80	90	90	90	0
24	152026	76	76	64	80	100	90	90	90	90		90	90	80	90	90	90	70
25	152052	88	60	62	82	100	90	90	90	90		90	90	90	90	90	90	70
26	152304	70	86	92	76	88	90	90	90	90		90	90	90	90	90	90	70
27	152047	50	50	A	A	80	90	90	90	90		90	90	90	90	90	90	70
28	152003	88	16	92	92	88	90	90	90	90		90	90	90	90	90	90	90
29	152045	64	60	72	96	96	90	90	90	90		90	90	90	90	90	90	50
30	152042	82	70	100	88	80	90	90	90	90		90	90	90	90	90	90	80
31	152065	94	94	92	68	60	90	90	90	80		80	90	90	90	90	90	70
32	152035	86	18	68	100	72	90	90	90	80		80	90	90	90	90	90	80
33	152074	70	42	60	56	52	90	90	90	80		80	90	90	90	90	90	70
34	152041	60	52	96	48	64	90	90	90	80		80	90	90	90	90	90	80
35	152034	50	78	64	68	88	90	90	90	90		90	90	90	90	90	90	60
36	152014	82	62	90	90	88	90	90	90	90		90	90	90	90	90	90	60
37	152058	84	60	40	76	100	90	80	80	90		90	90	90	80	90	90	70
38	152008	100	100	92	88	96	90	90	90	90		90	90	90	90	90	90	80
39	152054	20	16	60	16	72	80	90	90	80		80	80	90	90	90	90	50
40	152002	90	90	98	98	92	90	90	90	90		90	90	90	90	90	90	90
41	152005	96	76	92	92	92	90	90	90	90		90	90	90	90	90	90	90
42	152018	78	26	56	64	A	80	90	90	90		90	80	90	90	90	90	50
43	152301	76	28	40	76	52	80	80	80	80		80	80	90	80	90	90	50
44	152068	32	20	84	56	80	80	90	90	80		80	80	90	80	90	90	80
45	152055	90	70	90	90	100	90	90	90	90		90	90	90	90	90	90	90

46	162910	8	8	40	20	72	80	80	80	90		80		80	90	80	90	90	0
47	162906	30	10	30	30	52	80	80	80	90		80		80	90	80	90	90	0
48	162903	6	6	60	0	52	80	80	80	90		80		80	90	80	90	90	0
49	162904	36	0	72	28	64	80	90	90	90		80		80	80	90	90	90	0
50	162907	32	0	38	34	80	80	80	80	90		80		80	80	80	90	90	50
51	152033	100	84	100	80	96	90	90	90	90		90		70	90	90	90	90	80
52	152084	100	76	72	76	84	90	90	80	90		90		90	90	90	90	90	80
53	152064	64	100	85	83	96	90	90	90	90		90		70	90	90	90	90	90
54	152057	60	56	A	A	92	90	90	90	90		90		90	90	80	90	90	50
55	152102	56	92	64	60	92	90	90	90	90		80		80	90	90	80	90	70
56	152076	28	56	70	37	96	90	90	90	90		90		90	80	90	90	90	70
57	152071	72	84	95	77	96	90	90	90	90		90		90	90	90	80	90	50
58	152303	60	36	60	13	A	90	90	90	90		90		90	80	90	90	90	50
59	152040	68	96	85	73	80	90	90	90	90		90		90	90	90	90	90	70
60	152001	100	98	80	77	A	90	90	90	90		90		80	90	80	90	90	80
61	152049	40	8	A	A	A	90	90	90	90		90		80	80	90	80	90	50
62	152030	100	80	95	93	92	90	90	90	90		80		80	100	90	90	90	80
63	152006	100	82	90	90	96	90	90	90	90		90		50	90	90	90	90	80
64	152103	40	56	36	64	96	90	90	90	90		90		80	80	90	90	80	0
65	152078	76	48	60	85	96	90	90	90	90		90		90	90	90	90	90	0
66	152009	96	84	85	90	96	90	90	90	90		90		80	90	90	90	90	80
67	152015	60	100	60	80	96	90	90	90	80		80		90	90	90	90	90	90
68	152061	84	84	95	83	100	90	90	90	90		90		90	90	80	90	80	80
69	152302	A	A	40	84	96	90	90	90	90		90		90	90	90	90	90	50
70	152053	88	40	8	28	52	90	90	90	90		90		90	80	90	90	90	50
71	152043	52	76	A	A	60	90	90	90	90		90		90	80	80	80	90	50
72	152066	A	A	70	70	88	90	90	90	90		90		80	90	90	90	90	50
73	152029	96	52	100	85	96	90	90	90	90		90		90	90	90	90	90	80
74	152056	72	88	70	63	80	90	90	90	90		80		90	90	90	90	80	50
75	152075	100	72	56	96	96	90	90	90	90		90		80	90	90	90	90	70
76	152080	32	88	65	77	96	90	90	80	90		90		90	90	90	90	90	0
77	152022	92	80	90	83	96	90	90	80	80		90		70	90	90	90	90	80
78	152063	88	80	85	83	96	90	90	90	90		80		90	90	90	80	90	80
79	152036	40	92	70	75	96	90	90	90	80		90		90	90	90	90	80	50
80	152069	88	96	87	90	96	90	90	90	80		90		80	90	90	90	80	90
81	152028	84	72	55	80	96	90	90	90	90		80		90	90	90	80	80	70
82	152031	68	84	60	80	96	90	90	80	90		90		90	90	90	90	80	70
83	152023	88	48	90	80	96	90	90	80	80		90		90	90	80	90	90	80
84	152027	A	A	50	50	96	90	90	90	90		80		90	90	80	90	90	80
85	152073	40	76	90	47	96	90	90	90	90		90		80	90	90	90	90	50
86	152082	64	72	77	80	96	90	90	90	90		90		60	90	90	90	80	0
87	152020	72	68	90	43	96	90	90	90	80		90		90	90	90	90	90	50
88	152101	0	80	70	70	96	90	90	90	80		90		80	90	90	90	90	0
89	152081	20	100	30	65	96	90	90	90	90		90		40	85	90	90	90	0
90	152012	100	80	90	80	96	90	90	80	90		90		60	90	90	90	90	80
91	152067	100	92	100	93	96	90	90	90	80		90		70	90	90	90	90	90
92	152038	100	68	A	A	88	90	90	90	90		90		90	90	70	90	90	80
93	152025	76	100	78	78	96	90	90	90	90		90		90	90	90	90	90	70
94	162911	72	64	55	27	76	90	90	90	90		80		70	90	90	90	90	0
95	162912	68	64	36	15	88	90	90	80	80		90		90	90	80	90	90	50

96	162909	12	80	60	67	A	90	90	90	70		90		90	90	80	90	90	50
97	162908	48	0	35	0	96	90	80	70	70		90		80	90	90	80	70	50
98	162901	72	44	63	30	96	90	80	80	80		90		80	90	90	90	80	50
99	162902	A	A	77	75	96	90	90	90	90		90		70	80	90	90	90	60
100	162905	52	56	65	53	84	90	70	80	70		90		70	80	90	90	70	70
101	172401	48	0	A	A	80	90	80	70	70		90		70	80	70	90	80	50

Benchmark: % of Students secured ≥60 marks in CITs, ≥80 in assignment, ≥65 in Seminar/Quiz, Tutorial and ≥C (7) grade in AU L – Level, C-Count																		
	CIT					Assignments			Seminar		Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO3	CO5	CO5		CO5		CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		T1	T2	T3	T4	T5	
C	61	56	73	65	90	101	100	99	101		101		97	101	101	101	101	55
%	63.54	58.33	76.84	68.42	93.75	100	99.01	98.02	100		100		96.04	100	100	100	100	54.46
L	1	0	2	1	3	3	3	3	3		3		3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C306.1	C306.2	C306.3	C306.4	C306.5
Obtained %	95.76	93.41	95.78	96	94.34
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C306:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C306.1	1	3	-	-	3	1.8	0	0.72	3	1.18
C306.2	0	-	-	-	3	0.9	0	0.36	3	0.89
C306.3	2	3	-	-	3	2.4	0	0.96	3	1.37
C306.4	1	-	-	-	3	1.6	0	0.64	3	1.11
C306.5	3	3	3	3	3	3	0	1.2	3	1.56
C306										1.22

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C306.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C306.2	AU Exam	[0.7*Internal Test + 0.3*Tutorial]
C306.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C306.4	AU Exam	[0.7*Internal Test + 0.3*Tutorial]
C306.5	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Seminar + 0.1*Quiz + 0.1*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C306 = \frac{C306.1 + C306.2 + C306.3 + C306.4 + C306.5}{5} = 1.22$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6511 Control and Instrumentation Lab: C307

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060		100	80		100	80		100	90		90	80		90	80	90
2	152077		90	80	92	100	80		90	80		90	80		90	80	90
3	152044		80	80		80	80	91	90	80		90	80		90	80	80
4	152037		90	80		90	80		90	80		90	80	98	90	80	100
5	152305		80	80		80	80		90	80	91	90	80		90	80	80
6	152021	91	80	80		80	80		90	80		90	80		90	80	80
7	152050		80	80	90	80	80		90	80		90	80		90	80	80
8	152032		80	80		80	80		90	80	90	90	80		90	80	80
9	152016		80	80		80	80		90	80		90	80	90	90	80	70
10	152051	90	90	80		80	80		90	80		90	80		90	80	100
11	152019		90	80		90	80		90	80		90	80		90	80	100
12	152062		90	80		90	80		90	80	90	90	80		90	80	80
13	152048		80	80		90	80		90	80		90	80	90	90	80	90
14	152079		80	80		90	80	90	90	80		90	80		90	80	90
15	152013		90	80	96	90	80		90	80		90	80		90	80	90
16	152070	98	90	80		90	80		90	80		90	80		90	80	80
17	152011		90	80	98	90	80		90	80		90	80		90	80	100
18	152004		80	80		90	80	91	90	80		90	80		90	80	90
19	152039		80	80		90	80		90	80	91	90	80		90	80	90
20	152083		80	80		90	80		90	80		90	80	90	90	80	90
21	152017	90	80	80		90	80		90	80		90	80		90	80	90
22	152046		80	80	92	90	80		90	80		90	80		90	80	90
23	152059		90	80		90	80	98	90	80		90	80		90	80	100
24	152026		90	80		90	80		90	80	92	90	80		90	80	100
25	152052	92	90	80		90	80		90	80		90	80		90	80	90
26	152304	98	90	80		90	80		90	80		90	80		90	80	90
27	152047		90	80		90	80		90	80		90	80	92	90	80	80
28	152003		90	80		90	80		90	80	96	90	80		90	80	100
29	152045		90	80		90	80	98	90	80		90	80		90	80	100
30	152042		80	80		90	80		90	80		90	80		90	80	100
31	152065	98	90	80		90	80		90	80		90	80		90	80	100
32	152035		80	80	98	90	80		90	80		90	80		90	80	90
33	152074		90	80		90	80	92	90	80		90	80		90	80	100
34	152041		90	80		90	80		90	80		90	80	94	90	80	90
35	152034		90	80		90	80	92	90	80		90	80		90	80	90
36	152014		90	80	98	90	80		90	80		90	80		90	80	90
37	152058	92	90	80		90	80		90	80		90	80		90	80	90
38	152008		90	80		90	80	98	90	80		90	80		90	80	100
39	152054		90	80		90	80		90	80		90	80	92	90	80	90
40	152002		90	80		90	80		90	80	98	90	80		90	80	100
41	152005		90	80		90	80		90	80	98	90	80		90	80	100
42	152018		90	80	92	90	80		90	80		90	80		90	80	90
43	152301	92	90	80		90	80		90	80		90	80		90	80	100
44	152068		90	80		90	80	92	90	80		90	80		90	80	100
45	152055		90	80		90	80		90	80		90	80	98	90	80	100

46	162910	92	90	80		90	80		90	80		90	80		90	80	80
47	162906		90	80	90	90	80		90	80		90	80		90	80	90
48	162903		90	80		90	80		90	80	90	90	80		90	80	70
49	162904		90	80		90	80		90	80		90	80	90	90	80	90
50	162907	90	90	80		90	80		90	80		90	80		90	80	100
51	152033	96	90	90		90	90		90	90		90	90		80	90	100
52	152084		90	90	92	90	90		90	80		90	80		90	80	90
53	152064		90	90		90	90	80	90	80		90	90		90	90	100
54	152057		90	90		90	90		90	80	96	80	80		90	70	100
55	152102		90	90		90	90		90	80		90	90	85	90	90	90
56	152076	96	90	90		90	90		90	80		90	80		90	80	90
57	152071	90	90	90		90	90		90	80		90	80		90	90	90
58	152303		90	90	90	90	90		90	80		90	80		90	80	90
59	152040	95	90	90		90	90		90	80		90	90		90	90	100
60	152001		90	90		90	90	96	90	80		80	90		90	90	100
61	152049		90	90		90	90		90	90	92	90	90		90	80	90
62	152030	88	90	90		90	90		90	80		90	90		90	90	100
63	152006		90	90	96	90	90		90	80		80	90		90	90	100
64	152103		90	90		90	90	92	90	80		90	70		90	70	90
65	152078		90	90		90	90		90	90	90	80	90		90	90	90
66	152009		90	90		90	90		90	90		80	90	84	90	90	90
67	152015		90	90		90	90		90	90		90	90	86	80	90	100
68	152061		90	90		90	90		90	80	90	90	90		90	80	100
69	152302		90	90		90	90	89	90	90		90	90		90	90	90
70	152053		90	90	90	90	90		90	80		90	90		90	90	90
71	152043	90	90	90		90	90		90	80		90	80		90	80	90
72	152066		90	90	92	90	90		90	80		90	90		90	90	100
73	152029		90	90		90	90		90	80		90	80		90	90	100
74	152056		90	90		90	90	94	90	80		90	90		90	90	100
75	152075		90	90		90	90		90	90	90	90	90		90	90	100
76	152080	96	90	90		90	80		90	80		90	90		90	90	100
77	152022		90	80		90	80	96	90	90		90	90		90	90	100
78	152063	88	90	80		90	90		90	80		90	90		90	90	100
79	152036		90	90	80	90	90		90	90		90	90		90	90	100
80	152069		90	90		90	90	78	90	80		90	90		90	80	90
81	152028		90	80		90	90		90	90	90	90	90		90	90	100
82	152031		90	90		90	90		90	90		90	90	90	90	80	100
83	152023		90	80		90	90		90	80		90	90	96	90	90	100
84	152027		90	80		90	90		90	80	90	90	90		90	90	100
85	152073		90	70		90	80	92	90	80		90	90		90	90	100
86	152082		90	90	90	90	90		90	80		90	90		90	90	100
87	152020	95	90	80		90	80		90	80		90	90		90	90	100
88	152101	94	90	90		90	80		90	90		90	90		90	90	100
89	152081		90	90	90	90	90		90	90		90	90		90	80	80
90	152012		90	90		90	80	88	90	80		90	90		90	90	100
91	152067		90	80		90	80	84	90	80		90	90		90	90	100
92	155038		90	90		90	80		90	80	86	90	90		90	90	100
93	152025		90	90	90	90	80		90	80		90	90		90	90	100
94	162911		90	80	90	90	80		90	90		90	70		90	80	90
95	162912	90	90	90		90	80		90	80		90	70		90	80	90

96	162909		90	80	96	90	80		90	80		90	80		90	70	90
97	162908		90	80		90	90	80	90	70		90	60		80	80	90
98	162901		90	80		90	80		90	90		80	90	90	80	80	90
99	162902		90	80		90	80		90	80	90	90	90		90	90	100
100	162905		90	80		90	80	94	90	80		80	90		80	80	90
101	172401		90	80	84	90	80		90	80		90	70		90	70	90

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	22	101	101	21	101	101	21	101	101	18	101	101	15	101	101	101
C	22	101	100	21	101	101	20	101	100	18	101	96	15	101	97	89
%	100	100	99.01	100	100	100	95.24	100	99.01	100	100	95.05	100	100	96.04	88.12
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C307.1	C307.2	C307.3	C307.4	C307.5
Obtained %	96	95.53	94.14	93.45	93.2
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C307:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C307.1	3	3	3	3	3	3	3	3
C307.2	3	3	3	3	3	3	3	3
C307.3	3	3	3	3	3	3	3	3
C307.4	3	3	3	3	3	3	3	3
C307.5	3	3	3	3	3	3	3	3
C307								3

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C307.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C307.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C307.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C307.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C307.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C307 = \frac{C307.1 + C307.2 + C307.3 + C307.4 + C307.5}{5} = 3$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE 6674 – Communication and Soft Skills Lab: C308
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	95	100	90	95	90	90	99	95	100	95	85	100	90	100	100	100
2	152077	95	95	90	90	90	90	90	100	100	95	100	100	87	100	90	100
3	152044	85	80	100	87	96	90	80	100	85	85	90	85	86	90	100	90
4	152037	90	100	100	95	100	90	90	85	100	88	100	90	91	90	100	100
5	152305	89	100	100	77	100	90	85	100	80	87	90	90	85	90	85	90
6	152021	86	85	90	86	80	80	85	100	85	77	80	85	78	100	90	90
7	152050	90	100	90	95	100	100	90	100	95	98	90	90	87	100	100	80
8	152032	90	100	80	85	90	90	85	100	80	88	90	90	87	100	100	90
9	152016	85	100	80	90	90	100	85	100	90	88	90	95	90	90	100	90
10	152051	92	100	90	90	80	100	96	100	90	87	90	100	88	100	100	90
11	152019	95	100	100	90	100	100	95	90	90	90	100	90	100	100	100	90
12	152062	93	100	100	93	100	80	95	100	100	93	90	90	95	100	100	80
13	152048	83	80	80	82	80	90	85	100	90	84	90	90	77	100	100	90
14	152079	90	100	80	85	90	100	84	80	100	84	100	100	84	80	100	90
15	152013	87	90	100	90	100	100	90	100	90	90	90	100	90	90	100	90
16	152070	90	100	100	95	90	100	90	100	100	88	90	100	88	100	100	90
17	152011	90	90	90	94	100	100	94	100	100	95	90	100	94	90	100	90
18	152044	87	80	100	77	90	100	89	90	100	82	80	80	89	100	90	80
19	152039	90	90	90	95	100	80	77	90	80	88	100	90	77	100	80	80
20	152083	77	80	80	72	90	90	77	90	90	80	90	80	75	90	80	80
21	152017	95	90	100	90	100	90	92	90	90	92	100	100	90	100	80	90
22	152046	90	87	100	90	100	100	90	90	90	95	90	100	90	100	90	90
23	152059	90	100	100	95	100	100	95	90	100	99	100	100	97	100	100	90
24	152026	96	100	95	96	90	100	95	100	100	96	100	100	95	90	100	100
25	152052	92	100	100	95	90	90	95	100	95	99	100	100	92	90	100	90
26	152304	93	100	90	93	100	100	93	90	100	95	100	100	95	100	100	90
27	152047	99	100	90	99	100	100	95	90	100	94	100	90	95	100	100	90
28	152003	92	100	100	95	90	90	95	95	100	90	100	100	95	100	100	100
29	152045	92	95	95	90	90	100	95	95	100	87	100	100	90	90	100	90
30	152042	90	100	90	92	90	100	90	90	100	88	100	100	92	100	100	90
31	152065	94	100	90	95	90	80	94	100	80	94	100	100	97	100	100	100
32	152035	93	100	100	93	90	90	95	100	90	93	90	100	95	100	100	90
33	152074	85	90	100	87	100	100	87	90	100	80	100	100	85	80	100	90
34	152041	91	90	100	91	100	100	95	100	90	91	90	100	95	90	100	90
35	152034	93	100	100	93	90	100	93	100	100	93	100	100	93	90	90	90
36	152014	90	90	90	92	100	100	92	100	100	92	90	90	92	100	100	90
37	152058	90	80	100	89	100	80	89	100	100	90	80	100	90	100	100	90
38	152008	70	70	100	89	100	100	87	90	100	89	90	100	87	90	100	90
39	152054	88	100	100	88	80	100	88	100	100	88	100	90	88	80	100	80
40	152002	93	100	100	92	100	90	93	90	100	93	100	100	90	100	100	90
41	152005	95	100	100	95	80	100	99	100	90	90	100	100	90	90	100	90
42	152018	92	90	90	92	100	100	92	100	100	92	90	90	92	90	90	90
43	152301	91	100	90	91	100	90	91	80	80	91	100	90	91	100	100	90
44	152068	88	90	80	88	100	100	88	100	90	88	100	90	88	100	100	90
45	152055	90	100	100	90	80	90	90	100	90	90	100	100	90	90	100	90

46	162910	75	100	100	91	100	90	91	90	90	91	100	100	91	100	100	80
47	162906	77	100	90	75	80	90	77	90	90	70	100	80	70	80	80	80
48	162903	70	80	90	72	90	90	70	90	100	72	90	90	70	90	100	80
49	162904	77	90	80	87	80	100	87	90	90	87	80	100	87	90	100	80
50	162907	82	90	100	77	100	90	82	90	90	82	100	100	82	100	90	90
51	152033	95	100	100	99	100	90	95	100	100	97	100	90	87	90	90	90
52	152084	77	90	100	83	90	90	80	85	100	83	90	90	83	90	90	80
53	152064	95	100	100	96	90	90	99	100	100	92	90	100	90	100	90	90
54	152057	92	100	100	90	90	90	90	90	80	92	80	100	95	100	80	90
55	152102	93	100	90	90	90	100	87	100	100	93	100	90	93	90	100	90
56	152076	77	100	100	85	90	100	83	100	90	86	90	100	89	90	100	90
57	152071	84	80	80	84	100	100	84	100	80	84	80	100	84	100	80	90
58	152303	80	80	90	83	90	100	77	100	100	85	90	90	83	100	90	90
59	152040	86	100	100	77	90	100	86	100	90	70	100	100	86	80	80	100
60	152001	77	90	90	84	100	90	80	90	100	84	90	90	90	100	90	90
61	152049	87	90	100	72	90	90	87	90	80	73	100	80	87	100	90	100
62	152030	92	100	100	90	90	100	95	100	100	93	100	100	95	90	90	90
63	152006	95	100	100	95	90	100	92	100	100	92	90	100	90	90	90	90
64	152103	77	100	90	75	90	100	71	100	80	72	100	90	84	90	90	90
65	152078	95	100	90	95	100	100	92	90	100	90	100	100	90	100	90	90
66	152009	92	100	100	95	90	90	90	100	100	95	100	90	95	100	100	90
67	152015	90	100	100	92	90	90	99	100	100	95	100	90	92	90	100	90
68	152061	95	100	100	92	100	90	93	90	100	90	100	100	95	100	90	90
69	152302	91	90	90	90	100	100	91	100	100	91	90	100	95	100	90	100
70	152053	75	90	90	84	90	100	90	100	90	84	90	80	84	80	100	90
71	152043	87	90	100	88	90	80	85	90	90	90	100	80	92	90	100	80
72	152066	70	100	100	85	90	80	84	100	100	94	100	80	77	80	100	100
73	152029	90	90	100	87	90	80	85	90	90	93	100	90	90	100	90	100
74	152056	84	100	80	84	100	100	84	80	100	84	100	80	84	100	100	100
75	152075	85	100	100	85	80	100	85	100	80	85	80	100	85	80	80	100
76	152080	95	100	100	92	80	80	90	100	100	84	100	80	84	100	100	90
77	152002	85	100	100	85	100	100	85	80	80	85	100	100	85	80	90	80
78	152063	86	100	100	77	90	100	77	100	80	86	100	100	86	80	90	90
79	152036	84	100	100	84	90	100	84	80	90	84	100	100	84	80	100	90
80	152069	95	100	80	95	90	100	95	90	90	95	100	90	95	100	100	100
81	152028	85	90	90	85	100	100	85	80	90	85	100	100	85	100	90	90
82	152031	96	100	80	96	100	100	96	90	100	96	100	80	96	100	80	90
83	152023	95	100	100	95	90	90	95	80	100	95	100	90	95	100	90	90
84	152027	85	80	100	85	100	90	85	100	100	85	90	100	85	100	90	90
85	152073	86	90	100	86	100	100	86	90	90	86	100	80	86	90	80	90
86	152082	92	90	100	92	80	100	92	100	80	92	100	90	92	80	100	90
87	152020	87	90	90	87	100	100	87	100	100	87	100	90	87	100	100	90
88	152101	96	100	90	96	100	90	96	90	100	96	100	100	96	100	90	90
89	152081	82	100	100	82	100	100	82	90	90	82	100	100	92	90	90	80
90	152012	96	100	100	96	90	100	96	100	90	96	100	100	96	90	100	80
91	152067	88	100	100	88	90	90	87	90	90	85	100	100	80	90	90	90
92	152038	88	90	100	88	100	90	88	100	100	88	90	90	88	100	90	90
93	152025	92	100	90	92	90	100	80	100	100	88	90	90	92	100	90	90
94	4162911	77	80	90	77	100	90	75	100	80	80	90	90	80	100	90	80
95	162912	77	90	80	75	100	80	74	100	80	75	90	90	77	100	80	80

96	162909	84	80	90	77	90	90	75	100	100	83	90	100	84	90	90	80
97	162908	77	90	90	75	100	100	78	100	90	88	90	100	92	100	90	80
98	162901	80	90	90	77	100	100	75	90	90	73	100	90	92	100	90	80
99	162902	82	100	100	77	90	100	75	90	90	73	90	100	75	90	90	80
100	162905	92	100	90	92	90	90	92	100	90	92	90	100	92	100	100	80
101	172401	87	90	90	88	100	90	77	90	90	75	100	90	85	80	80	80

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
C	86	101	101	85	101	101	87	101	101	91	101	101	92	101	101	101
%	85.15	100	100	84.16	100	100	86.14	100	100	90.1	100	100	91.09	100	100	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C308.1	C308.2	C308.3	C308.4	C308.5
Obtained %	96.68	96.21	96.66	95.74	96.42
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C308:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C308.1	3	3	3	3	3	3	3	3
C308.2	3	3	3	3	3	3	3	3
C308.3	3	3	3	3	3	3	3	3
C308.4	3	3	3	3	3	3	3	3
C308.5	3	3	3	3	3	3	3	3
C308								3

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C308.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C308.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C308.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C308.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C308.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C308 = \frac{C308.1 + C308.2 + C308.3 + C308.4 + C308.5}{5} = 3$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6512 Electrical Machines II Lab: C309
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	94	90	87		90	90		90	90		90	90		90	90	100
2	152077		90	52	95	90	82		90	90		90	90		90	90	100
3	152044		90	80		90	80	90	90	80		90	80		90	80	100
4	152037		90	52		90	62		90	72	86	90	80		90	90	100
5	152305		90	50		87	50		90	58		85	65	84	75	65	90
6	152021	87	80	35		90	62		90	90		85	85		90	85	90
7	152050		87	50	88	90	63		90	86		90	50		85	70	100
8	152032		87	90		90	90	92	90	88		90	90		90	90	100
9	152016		87	50		72	50		80	90	96	80	60		80	65	80
10	152051		87	70		90	70		90	68		90	80	88	90	80	100
11	152019		90	90		90	90		90	90		90	90		90	90	100
12	152062	92	90	60		87	62		90	90		90	75		90	80	80
13	152048	A	A	A		A	A		A	A		A	A		A	A	70
14	152079		87	70	96	90	70		87	70		90	70		85	70	90
15	152013		90	52		90	62	90	90	76		90	75		90	70	80
16	152070		80	76		90	78		90	90	88	90	90		90	90	90
17	152011		90	50		90	50		90	94		90	90	82	90	80	100
18	152004	89	87	50		90	50		90	60		90	60		90	60	80
19	152039		87	50	88	83	50		87	58		80	50		80	70	80
20	152083		90	60		87	52	92	78	58		75	60		70	60	80
21	152017		87	50		90	50		90	50	80	90	60		90	70	80
22	152046		87	45		87	50		90	66		90	80	86	90	80	90
23	152059	82	90	50		90	50		90	68		90	70		90	70	90
24	152026		83	78	90	90	74		90	80		90	85		90	90	100
25	152052		80	50		90	73	84	90	90		90	80		90	85	100
26	152304		80	50		80	62		80	90	88	80	90		80	90	90
27	152047		83	52		87	58		90	80		90	80	84	90	85	90
28	152003	90	90	52		90	60		90	78		95	90		90	85	100
29	152045		90	50	82	90	63		90	78		95	80		90	80	90
30	152042		90	50		90	56	88	90	90		90	90		90	90	100
31	162910		90	90		90	90		90	90	80	90	90		90	90	80
32	162906		83	64		90	90		90	90		90	90	80	90	90	90
33	162903	92	87	54		87	90		90	90		90	90		90	90	70
34	162904		87	82	84	87	90		90	90		90	90		90	90	80
35	152065		90	70		73	58	88	90	90		90	90		90	90	100
36	152035		72	50		72	58		93	90	82	90	90		90	90	100
37	152074		80	90		90	90		90	90		90	90		90	90	100
38	152041		90	52		90	60		83	60		90	70	80	90	90	100
39	152034	86	90	50		90	60		90	80		90	80		90	80	100
40	152014		80	62	80	90	70		90	80		90	80		90	80	100
41	152058		90	56		90	78	80	90	90		90	90		90	70	100
42	152008		90	50		90	64		90	90	82	90	90		90	90	100
43	152054		80	50		90	90		90	90		90	90	80	90	90	90
44	152002	82	90	52		90	60		90	68		90	75		90	90	100
45	152005		90	52	84	90	80		90	90		90	90		90	80	100

46	152018		80	82		83	88	86	90	90		90	90		90	90	100
47	152301		90	50		90	62		90	80	88	90	75		90	90	90
48	152068		87	90		90	90		90	90		90	90	82	90	90	80
49	152055	80	90	50		90	58		90	64		90	80		90	90	90
50	162907		87	50	82	90	76		90	90		90	90		90	90	100
51	152033		90	90		90	90	80	87	90		85	90		90	90	100
52	152084		87	93		80	90		87	90	86	90	90		80	90	100
53	152057		80	90		80	90		87	90		85	90	88	85	90	90
54	152102	84	90	90		90	90		87	90		85	90		90	90	100
55	152076		87	80	90	90	87		78	90		90	90		90	90	90
56	152303		78	83		87	83	80	86	90		85	90		90	90	90
57	152040		84	80		87	90		87	90	86	85	90		90	90	100
58	152001		87	87		87	90		90	90		80	90	90	90	90	100
59	152049	80	78	87		78	90		86	90		90	90		90	90	100
60	152103		87	87	86	90	90		83	90		85	90		90	90	90
61	152053		80	90		90	90	70	87	90		90	90		90	90	90
62	152043		87	90		90	90		87	90	86	85	90		85	90	80
63	152066		80	90		80	90		76	90		85	90	80	90	90	90
64	152029	94	80	90		80	90		80	90		85	90		90	90	90
65	152056		75	90	85	87	90		80	90		85	90		90	90	90
66	152064		90	90		93	93	94	87	90		90	90		90	90	100
67	152071		90	90		90	90		87	90	88	85	90		90	90	100
68	152030		90	90		90	93		90	93		90	90	88	90	90	100
69	152006	90	90	93		90	90		90	93		85	90		90	90	100
70	152078		90	93	88	96	93		90	90		85	90		90	90	90
71	152009		90	93		90	90	84	90	90		80	90		90	90	90
72	152015		90	90		90	90		87	90	86	90	90		90	90	100
73	152061		90	90		90	90		90	90		85	90	90	90	90	90
74	152302	94	90	90		80	90		87	90		85	90		90	90	100
75	152075		90	93	98	93	99		87	90		90	90		90	90	100
76	152080		90	90		90	90	88	87	90		85	90		90	90	90
77	152022		90	90		90	90		78	90	78	75	90		85	90	100
78	152069		90	90		90	90		87	90		85	90	79	85	90	90
79	152063		90	87		83	90		87	90	80	85	90		90	90	90
80	152036		80	87		83	90	88	90	90		85	90		90	90	90
81	152031		87	87	84	87	87		87	90		90	90		90	90	100
82	152028	80	87	90		90	90		83	90		90	90		90	90	100
83	152020		90	90		90	90		87	90		85	90	96	90	90	80
84	152012		87	90	84	90	90		87	90		90	90		90	90	100
85	152067		90	90		90	87	92	78	90		80	90		90	90	100
86	152023		90	90		90	90		78	90	86	75	90		90	90	100
87	152027		90	90		87	90		80	90		95	90	88	90	90	100
88	152073	84	90	90		90	90		87	90		95	90		90	90	70
89	152082		87	90		87	83		87	90		95	90		90	90	90
90	152101		87	90	90	87	90		90	90		90	90		90	90	70
91	152081		90	83		83	90		90	90	92	90	90		90	90	80
92	152038		90	90		90	83		90	96		90	95	90	90	90	100
93	152025	90	87	90		87	90		90	93		90	95		90	90	100
94	162911		80	90		78	87		87	93	80	90	90		90	90	80
95	162912		84	90		90	93	90	96	90		95	90		90	90	70

96	162909		90	90	86	90	83		93	90		90	90		90	90	80
97	162908		80	87		80	83		90	87		95	90	90	90	90	70
98	172401		87	90		80	87	85	90	87		85	90		90	90	70
99	162901	75	80	83		93	90		90	87		90	85		90	90	90
100	162902		90	87		90	83		87	87	80	95	90		90	90	80
101	162905	85	90	87		90	87		87	93		95	90		90	90	80

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	20	100	100	19	100	100	19	100	100	20	100	100	19	100	100	101
C	19	100	60	19	100	65	18	100	84	19	100	86	18	100	89	94
%	95	100	60	100	100	65	94.74	100	84	95	100	86	94.74	100	89	93.07
L	3	3	1	3	3	1	3	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C309.1	C309.2	C309.3	C309.4	C309.5
Obtained %	97.14	96.19	96.68	95.74	94.82
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C309:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C309.1	3	3	1	2.8	3	2.84	3	2.872
C309.2	3	3	1	2.6	3	2.84	3	2.872
C309.3	3	3	3	3	3	3	3	3
C309.4	3	3	3	3	3	3	3	3
C309.5	3	3	3	3	3	3	3	3
C309								2.95

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C309.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C309.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C309.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C309.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C309.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C309 = \frac{C309.1 + C309.2 + C309.3 + C309.4 + C309.5}{5} = 2.95$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EC6651 Communication Engineering: C310

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	152060	96	100	90	90	88	100	90	90	100	100	80
2	152077	96	45	86	90	74	100	90	100	90	100	60
3	152044	92	68	86	75	58	100	100	100	90	50	50
4	152037	96	45	95	90	82	100	90	90	80	90	50
5	152305	88	20	65	60	22	100	90	90	80	80	60
6	152021	76	55	90	63	50	100	80	80	80	90	50
7	152050	92	45	80	60	54	100	90	90	80	80	60
8	152032	96	40	85	66	8	100	90	90	80	50	50
9	152016	66	10	95	83	50	100	90	80	80	100	70
10	152051	96	78	90	66	80	100	90	90	80	100	70
11	152019	96	78	75	83	86	100	80	90	90	50	80
12	152062	88	33	90	60	64	90	90	80	90	70	0
13	152048	88	23	75	53	18	90	90	90	80	90	60
14	152079	88	13	12	4	36	90	80	90	80	60	A
15	152013	88	45	0	0	76	100	90	90	90	20	70
16	152070	96	0	80	83	76	100	90	90	80	100	70
17	152011	96	78	85	66	84	100	90	90	80	40	80
18	152004	72	15	0	0	44	90	90	90	80	50	50
19	152039	88	48	50	63	38	100	80	90	80	100	60
20	152083	48	20	45	33	24	100	90	90	80	60	0
21	152017	88	63	96	32	28	100	90	90	80	90	50
22	152046	96	20	85	66	60	90	90	90	80	70	70
23	152059	96	0	80	86	82	100	90	90	80	100	50
24	152026	96	70	80	96	62	100	90	80	80	100	70
25	152052	96	63	75	86	76	100	90	90	80	100	50
26	152304	96	48	80	86	76	100	90	90	80	90	70
27	152047	92	60	75	83	72	100	90	90	90	100	60
28	152003	96	75	100	86	88	100	90	80	80	80	80
29	152045	96	48	85	66	72	100	90	90	80	70	70
30	152042	92	50	95	86	70	100	90	90	80	100	70
31	152065	92	70	95	90	90	100	90	90	80	100	80
32	152035	80	38	80	86	72	100	80	90	80	60	50
33	152074	96	73	90	60	62	100	90	80	80	90	50
34	152041	96	35	95	63	72	100	80	90	80	100	60
35	152034	96	73	80	80	50	100	90	90	80	50	60
36	152014	96	53	95	86	76	100	100	100	80	100	70
37	152058	96	78	90	90	60	100	90	90	80	100	70
38	152008	96	75	86	90	92	100	80	90	80	100	70
39	152054	0	38	90	60	60	100	90	80	80	100	70
40	152002	96	80	85	86	82	100	90	90	80	100	70
41	152005	96	90	86	90	82	100	90	90	90	100	80
42	152018	72	72	85	66	50	100	90	90	80	100	50
43	152301	88	30	95	90	62	100	90	90	80	40	60
44	152068	84	43	75	83	54	100	90	90	80	100	70
45	152055	96	75	80	86	88	100	90	90	80	80	70
46	162910	0	15	20	20	36	90	80	90	80	90	0

47	162906	40	0	20	20	38	90	80	80	80	50	0
48	162903	60	20	80	53	4	100	90	80	80	80	0
49	162904	82	48	60	43	38	100	90	80	80	100	60
50	162907	80	38	50	66	54	100	90	80	80	70	50
51	152033	90	96	84	88	64	90	90	90	100	100	50
52	152084	96	64	88	64	76	90	90	90	100	100	50
53	152064	96	86	100	96	98	100	100	90	100	100	50
54	152057	88	80	92	84	40	100	100	90	100	100	50
55	152102	90	58	96	60	70	100	90	90	100	100	0
56	152076	96	60	72	52	44	100	90	90	100	100	70
57	152071	96	90	100	80	98	100	100	90	100	100	80
58	152303	72	60	40	0	70	90	90	90	100	100	0
59	152040	96	90	96	96	82	100	100	90	100	100	60
60	152001	96	82	100	92	92	100	90	90	100	100	70
61	152049	96	54	74	74	0	90	90	90	100	100	50
62	152030	96	88	100	96	98	100	100	90	100	100	90
63	152006	96	90	100	96	92	100	100	90	100	100	70
64	152103	96	96	80	80	98	100	90	90	100	100	70
65	152078	96	99	100	48	94	100	100	90	100	100	70
66	152009	84	84	100	64	98	100	100	90	100	100	70
67	152015	96	78	84	84	98	100	100	90	100	100	80
68	152061	96	96	91	93	98	100	100	90	100	100	80
69	152302	96	82	96	96	80	100	100	90	100	100	60
70	152053	96	54	66	66	40	90	100	90	100	100	50
71	152043	96	10	100	36	12	90	90	90	100	100	50
72	152066	96	86	96	100	96	90	90	90	100	100	70
73	152029	72	74	52	96	94	100	100	90	100	100	70
74	152056	60	84	100	96	70	90	90	90	100	100	50
75	152075	96	99	100	88	98	100	100	90	100	100	70
76	152080	96	66	96	100	98	100	90	90	100	100	70
77	152022	96	98	64	100	98	100	100	90	100	100	50
78	152063	96	78	96	100	96	100	90	90	100	100	70
79	152036	80	92	100	92	90	100	90	90	100	100	70
80	152069	96	88	100	96	0	100	100	90	100	100	70
81	152028	96	80	100	64	78	100	100	90	100	100	60
82	152031	96	88	100	84	98	90	100	90	100	100	70
83	152023	96	96	80	100	90	90	90	90	100	100	90
84	152027	88	58	0	0	32	90	90	90	100	100	50
85	152073	80	46	60	0	80	100	90	90	100	100	0
86	152082	82	96	88	100	66	100	100	90	100	100	80
87	152020	96	92	100	96	98	100	100	90	100	100	60
88	152101	88	88	100	96	88	100	100	90	100	100	70
89	152081	50	40	72	12	12	100	90	90	100	100	50
90	152012	96	82	84	100	90	100	100	90	100	100	70
91	152067	96	98	100	96	98	100	100	90	100	100	70
92	152038	96	70	100	96	98	90	90	90	100	100	70
93	152025	96	76	100	76	74	100	100	90	100	100	80
94	162911	52	44	32	16	0	90	90	90	100	100	0
95	162912	40	10	80	60	14	90	100	90	100	100	50
96	162909	80	96	16	8	90	100	90	90	100	100	0

97	162908	80	80	76	24	82	100	90	90	100	100	70
98	162901	36	82	92	60	50	100	100	90	100	100	50
99	162902	92	94	100	52	74	100	100	90	100	100	0
100	162905	50	76	92	68	0	100	90	90	100	100	50
101	172401	60	56	36	40	54	90	90	90	100	100	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count											
	CIT					Assignments			Seminar	Quiz	AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
C	92	60	87	79	68	101	101	101	101	89	48
%	91.09	59.41	86.14	78.22	67.33	100	100	100	100	88.12	48
L	3	0	3	2	1	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C310.1	C310.2	C310.3	C310.4	C310.5
Obtained %	91.03	91.25	93.05	92.14	91.63
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C310:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C310.1	3	3	-	-		3	0	1.2	3	1.56
C310.2	0	3	-	-		0.9	0	0.36	3	0.89
C310.3	3	3	-	-		3	0	1.2	3	1.56
C310.4	2	-	3	-		2.2	0	0.88	3	1.3
C310.5	1	-	-	3		1.4	0	0.56	3	1.05
C310										1.27

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C310.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C310.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C310.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C310.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C310.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C310 = \frac{C310.1 + C310.2 + C310.3 + C310.4 + C310.5}{5} = 1.27$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6601 Solid State Drives: C311

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO5	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	152060	92	88	100	96	90	100	100	100	92	100	90
2	152077	96	90	95	60	90	100	100	100	96	100	80
3	152044	76	73	48	96	50	100	100	100	76	100	60
4	152037	92	93	84	72	98	100	100	100	92	100	80
5	152305	76	53	44	20	36	100	100	100	76	90	70
6	152021	84	80	60	64	80	100	100	100	84	100	50
7	152050	84	0	96	72	70	100	100	100	84	100	60
8	152032	54	78	96	64	50	100	100	100	54	100	70
9	152016	60	90	32	84	66	100	100	100	60	100	70
10	152051	88	86	84	100	82	100	100	100	88	100	90
11	152019	96	93	96	100	88	100	100	100	96	100	90
12	152062	92	68	80	56	72	100	100	100	92	100	70
13	152048	80	78	8	0	26	100	100	100	80	100	70
14	152079	64	53	8	0	62	100	100	100	64	100	0
15	152013	88	98	76	48	80	100	100	100	88	90	70
16	152070	76	0	100	86	80	100	100	100	76	90	80
17	152011	96	65	80	88	90	100	100	100	96	100	80
18	152004	80	60	0	0	32	100	100	100	80	100	50
19	152039	92	68	76	28	60	100	100	100	92	100	70
20	152083	32	38	48	32	8	100	100	100	32	100	0
21	152017	80	75	36	36	26	100	100	100	80	100	70
22	152046	84	58	100	48	72	100	100	100	84	100	90
23	152059	92	73	88	80	76	100	100	100	92	100	80
24	152026	0	95	100	68	78	100	100	100	0	100	80
25	152052	92	85	68	92	94	100	100	100	92	100	70
26	152304	92	80	0	0	78	100	100	100	92	100	80
27	152047	80	78	80	60	58	100	100	100	80	100	80
28	152003	92	83	88	68	98	100	100	100	92	100	70
29	152045	96	75	80	76	72	100	100	100	96	100	80
30	152042	80	83	64	78	72	100	100	100	80	100	80
31	152065	96	85	80	76	84	100	100	100	96	100	80
32	152035	72	80	44	80	54	100	100	100	72	100	80
33	152074	96	85	76	52	98	100	100	100	96	100	70
34	152041	92	78	88	64	88	100	100	100	92	100	80
35	152034	60	85	60	48	82	100	100	100	60	100	70
36	152014	92	73	80	64	80	100	100	100	92	100	90
37	152058	96	80	80	64	84	100	100	100	96	100	80
38	152008	96	90	90	90	96	100	100	100	96	100	80
39	152054	80	78	64	64	56	100	100	100	80	100	80
40	152002	96	85	92	96	96	100	100	100	96	100	70
41	152005	96	99	96	96	94	100	100	100	96	100	80
42	152018	80	68	84	52	54	100	100	100	80	100	80
43	152301	92	80	92	80	78	100	100	100	92	100	70
44	152068	92	65	100	68	50	100	100	100	92	100	70
45	152055	96	85	84	100	90	100	100	100	96	100	80
46	162910	76	55	68	56	34	100	100	100	76	100	50

47	162906	76	68	76	40	0		100	100	100	76	100	0
48	162903	56	25	28	24	6		100	100	100	56	100	0
49	162904	80	58	28	84	12		100	100	100	80	100	50
50	162907	88	68	96	72	0		100	100	100	88	100	60
51	152033	88	80	84	52	60		100	100	100	88	100	80
52	152084	64	68	60	64	64		100	100	80	64	50	70
53	152064	92	55	72	84	A		100	100	90	92	100	70
54	152057	72	75	80	56	68		100	100	80	72	100	80
55	152102	72	78	80	48	20		100	100	80	72	90	50
56	152076	88	60	80	48	A		100	100	80	88	100	90
57	152071	88	88	96	64	78		100	100	90	88	100	80
58	152303	68	50	20	12	22		80	100	80	68	100	70
59	152040	80	60	56	32	68		100	100	100	80	90	70
60	152001	96	88	76	68	78		100	100	100	96	100	80
61	152049	68	25	56	28	14		80	100	80	68	90	0
62	152030	92	85	88	80	80		100	100	100	92	90	80
63	152006	92	88	72	80	74		100	100	100	92	80	70
64	152103	72	73	76	52	68		100	100	80	72	80	80
65	152078	96	83	84	84	60		100	100	90	96	100	80
66	152009	84	65	48	28	60		100	100	100	84	100	70
67	152015	88	73	76	68	60		100	100	90	88	100	90
68	152061	96	80	96	80	76		100	100	90	96	80	90
69	152302	84	65	80	64	A		100	100	90	84	100	70
70	152053	64	70	60	20	24		100	100	80	64	100	70
71	152043	80	63	60	44	14		100	100	80	80	90	50
72	152066	84	80	80	52	80		100	100	80	84	100	80
73	152029	88	70	64	68	26		100	100	90	88	100	70
74	152056	68	55	92	68	68		100	100	80	68	90	70
75	152075	76	70	80	68	80		100	100	90	76	100	90
76	152080	92	60	80	68	72		100	100	100	92	30	70
77	152022	84	70	72	60	78		100	100	100	84	100	80
78	152063	84	65	80	76	74		100	100	100	84	100	80
79	152036	76	73	80	72	50		100	100	80	76	100	50
80	152069	92	58	72	64	A		100	100	100	92	100	80
81	152028	96	75	48	64	66		100	100	100	96	90	70
82	152031	96	75	92	68	76		100	100	90	96	90	90
83	152023	96	78	82	86	60		90	100	90	96	40	80
84	152027	56	60	A	A	52		80	100	90	56	40	70
85	152073	52	68	40	36	24		80	100	80	52	100	70
86	152082	64	83	64	60	50		100	100	80	64	100	70
87	152020	92	70	56	84	80		100	100	90	92	100	80
88	152101	52	70	80	44	74		100	100	90	52	40	60
89	152081	32	68	40	8	26		100	100	80	32	100	50
90	152012	96	83	92	52	68		100	100	100	96	100	70
91	152067	84	78	92	84	80		100	100	100	84	100	80
92	152038	84	83	88	76	76		80	100	100	84	100	80
93	152025	84	80	80	72	24		100	100	90	84	100	70
94	162911	56	38	52	48	14		80	100	80	56	50	50
95	162912	44	38	36	28	0		80	100	80	44	100	50
96	162909	56	80	32	40	A		80	100	90	56	90	80

97	162908	60	60	52	32	14		80	100	80	60	100	0
98	162901	56	58	60	64	14		100	100	80	56	80	60
99	162902	76	73	68	52	50		100	100	80	76	30	60
100	162905	32	45	56	40	0		100	100	80	32	100	50
101	172401	20	40	48	12	8		80	100	80	20	100	50

Benchmark: % of Students secured ≥60 marks in CITs, ≥80 in assignment, ≥65 in Seminar/Quiz, Tutorial and ≥C (7) grade in AU L – Level, C-Count												
	CIT					Assignment			Seminar	Quiz	AU	
	CO1	CO2	CO3	CO4	CO5		CO2	CO3	CO4	CO5		CO4
	CIT1	CIT2	CIT3	CIT4	CIT5		A1	A2	A3	S1		Q1
C	87	82	74	60	60		101	101	101	87	94	77
%	86.14	81.19	74	60	62.5		100	100	100	86.14	93.07	76.24
L	3	3	2	1	1		3	3	3	3	3	2

Attainment Calculation:

Survey:

Survey	C311.1	C311.2	C311.3	C311.4	C311.5
Obtained %	93.27	91.25	90.61	92.61	90.81
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C311:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C311.1	3	-	-	-		3	2	2.4	3	2.52
C311.2	3	3	-	-		3	2	2.4	3	2.52
C311.3	2	3	-	-		2.3	2	2.12	3	2.3
C311.4	1	3	-	3		1.6	2	1.84	3	2.07
C311.5	1	-	3	-		1.4	2	1.76	3	2.01
C311										2.28

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C311.1	AU Exam	[1*Internal Test]
C311.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C311.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C311.4	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C311.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C311 = \frac{C311.1 + C311.2 + C311.3 + C311.4 + C311.5}{5} = 2.28$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EC6602 Embedded System: C312

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	Q1	Q2	
1.	152060	76	93	100	100	100	100	100	100	100	100	80
2.	152077	80	90	100	100	92	100	100	100	100	100	70
3.	152044	80	48	66	66	84	100	90	90	100	90	70
4.	152037	92	83	100	100	96	100	100	100	100	100	80
5.	152305	76	55	64	64	56	100	100	90	100	90	70
6.	152021	92	78	92	88	80	80	100	100	100	100	50
7.	152050	40	0	72	72	58	90	100	90	90	90	70
8.	152032	88	70	100	84	52	60	100	90	90	90	60
9.	152016	88	75	100	92	68	100	100	90	90	90	50
10.	152051	68	75	90	90	68	90	100	100	100	100	50
11.	152019	96	98	100	100	98	100	100	100	100	100	80
12.	152062	100	48	100	96	86	100	90	100	100	100	70
13.	152048	64	33	90	90	56	100	100	90	100	90	50
14.	152079	84	53	24	36	70	90	100	90	100	95	A
15.	152013	72	78	90	90	80	100	100	100	100	100	80
16.	152070	72	63	100	80	86	100	100	100	100	100	50
17.	152011	100	90	100	84	90	100	100	100	100	100	70
18.	152004	76	58	62	62	64	60	100	90	90	90	50
19.	152039	52	78	36	36	54	90	100	90	100	80	0
20.	152083	52	30	24	52	44	60	100	90	100	80	0
21.	152017	88	80	66	66	66	90	100	90	90	90	60
22.	152046	100	83	100	84	76	80	100	100	90	95	80
23.	152059	100	43	96	100	96	100	100	100	100	100	80
24.	152026	68	85	92	96	88	100	100	100	100	100	80
25.	152052	100	80	100	100	88	100	100	100	100	100	60
26.	152304	96	70	98	98	82	100	100	100	100	100	70
27.	152047	68	85	100	100	86	80	100	100	100	100	80
28.	152003	84	90	100	100	100	100	100	100	100	100	90
29.	152045	88	78	100	100	98	100	100	100	100	100	80
30.	152042	64	65	92	88	92	90	90	90	100	100	80
31.	152065	68	75	100	100	84	100	100	100	90	100	70
32.	152035	64	58	80	88	84	90	90	100	100	100	60
33.	152074	68	80	100	100	78	90	90	100	100	100	80
34.	152041	92	73	100	76	96	100	100	100	100	100	60
35.	152034	76	0	96	96	94	100	100	100	100	100	70
36.	152014	92	90	100	100	96	100	100	100	100	100	70
37.	152058	88	80	100	100	92	100	100	100	100	100	60
38.	152008	100	80	100	100	96	100	100	100	100	100	90
39.	152054	56	68	100	100	86	80	100	90	100	90	70
40.	152002	80	100	100	100	96	90	90	100	90	100	80
41.	152005	96	100	100	100	94	90	100	100	100	100	80
42.	152018	76	55	88	72	56	90	100	90	100	90	60
43.	152301	80	78	84	88	84	100	100	100	90	100	60
44.	152068	72	54	90	90	70	90	100	90	90	85	50
45.	152055	80	78	100	100	100	100	90	100	100	100	70
46.	162910	56	46	60	68	76	80	90	90	90	80	0

47.	162906	56	60	100	68	60	90	90	90	90	90	0
48.	162903	30	40	12	24	20	80	90	90	90	85	0
49.	162904	54	50	68	36	0	70	90	90	90	85	50
50.	162907	54	53	96	68	66	90	100	100	100	100	70
51.	152033	76	93	100	100	100	100	100	100	100	100	60
52.	152084	96	62	84	99	84	100	100	100	100	100	70
53.	152064	52	46	74	78	72	100	100	100	100	100	70
54.	152057	50	74	84	96	0	100	100	100	100	90	50
55.	152102	64	36	88	76	62	100	100	100	100	100	50
56.	152076	52	50	80	74	62	100	100	100	100	90	50
57.	152071	68	70	76	50	70	100	100	100	100	100	80
58.	152303	52	74	80	86	80	100	100	100	100	100	60
59.	152040	68	44	96	80	66	100	100	100	100	100	60
60.	152001	76	66	84	99	94	100	100	100	100	100	70
61.	152049	80	88	88	99	84	100	100	100	100	80	0
62.	152030	50	16	80	50	0	100	100	100	100	100	90
63.	152006	84	82	96	99	88	100	100	100	100	100	70
64.	152103	92	60	50	99	80	100	100	100	100	100	70
65.	152078	52	90	96	94	70	100	100	100	100	100	60
66.	152009	68	90	84	96	86	100	100	100	100	100	50
67.	152015	50	70	88	94	84	100	100	100	100	100	70
68.	152061	56	62	88	84	76	100	100	100	100	100	60
69.	152302	72	68	92	92	88	100	100	100	100	100	60
70.	152053	50	72	84	84	70	100	100	100	100	100	70
71.	152043	50	52	92	92	40	100	100	100	100	90	50
72.	152066	50	50	60	60	64	100	100	100	100	80	80
73.	152029	68	72	96	96	74	100	100	100	100	100	70
74.	152056	50	68	72	98	82	100	100	100	100	100	50
75.	152075	52	76	68	96	74	100	100	100	100	80	80
76.	152080	50	82	88	92	88	100	100	100	100	100	60
77.	152022	84	72	96	98	90	100	100	100	100	80	70
78.	152063	88	88	84	99	80	100	100	100	100	100	50
79.	152036	72	72	80	92	80	100	100	100	100	100	80
80.	152069	72	60	84	98	62	100	100	100	100	100	80
81.	152028	72	66	92	98	80	100	100	100	100	90	70
82.	152031	72	74	88	92	72	100	100	100	100	100	60
83.	152023	72	72	88	96	82	100	100	100	100	100	60
84.	152027	68	76	76	90	70	100	100	100	100	100	0
85.	152073	50	32	88	0	62	100	100	100	100	90	50
86.	152082	50	60	80	66	74	100	100	100	100	90	50
87.	152020	76	78	92	96	64	100	100	100	100	100	70
88.	152101	56	64	80	99	86	100	100	100	100	80	70
89.	152081	50	50	72	86	66	100	100	100	100	100	90
90.	152012	50	62	64	40	80	100	100	100	100	80	80
91.	152067	80	68	96	98	86	100	100	100	100	80	70
92.	152038	88	90	84	99	84	100	100	100	100	100	70
93.	152025	80	90	84	99	96	100	100	100	100	100	60
94.	162911	56	60	76	99	76	100	100	100	100	100	0
95.	162912	50	28	0	38	68	100	100	100	100	100	70
96.	162909	50	36	80	56	58	100	100	100	100	80	60

97.	162908	50	62	92	78	0	100	100	100	100	70	60
98.	162901	52	60	76	86	80	100	100	100	100	80	50
99.	162902	50	64	96	84	72	100	100	100	100	100	60
100.	162905	50	62	76	78	72	100	100	100	100	80	50
101.	172401	50	60	72	60	0	100	100	100	100	70	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count											
	CIT					Assignments			Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	Q1	Q2	
C	65	73	95	90	86	97	101	101	101	101	51
%	64.36	72.28	94.06	89.11	85.15	96.04	100	100	100	100	51
L	1	2	3	3	3	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C312.1	C312.2	C312.3	C312.4	C312.5
Obtained %	93.92	93.49	93.94	93.05	93.94
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C312:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C312.1	1	3		-		1.6	0	0.64	3	1.11
C312.2	2	3		-		2.3	0	0.92	3	1.34
C312.3	3	3		-		3	0	1.2	3	1.56
C312.4	3	-		3		3	0	1.2	3	1.56
C312.5	3	-		3		3	0	1.2	3	1.56
C312										1.43

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C312.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C312.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C312.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C312.4	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C312.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C312 = \frac{C312.1 + C312.2 + C312.3 + C312.4 + C312.5}{5} = 1.43$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6603 Power System Operation and Control: C313
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Quiz	Tutorial		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO3	CO1	CO2	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	Q1	T1	T2	
1.	152060	96	88	96	96	98	100	100	100	100	100	100	80
2.	152077	96	80	90	74	98	100	100	100	100	100	100	0
3.	152044	92	50	62	74	98	90	100	100	100	100	100	50
4.	152037	96	75	92	88	98	100	100	100	100	100	100	60
5.	152305	60	28	72	68	60	100	100	100	0	100	100	50
6.	152021	76	70	50	74	76	90	100	100	0	100	100	70
7.	152050	60	A	52	64	68	90	100	100	100	100	100	0
8.	152032	92	40	88	72	64	90	100	100	90	90	100	80
9.	152016	72	74	68	68	96	90	100	100	100	90	100	70
10.	152051	88	80	100	100	96	90	100	100	100	70	100	50
11.	152019	92	93	90	70	60	90	100	100	100	90	100	70
12.	152062	64	63	52	60	92	100	100	100	80	90	100	100
13.	152048	76	38	64	72	78	90	100	100	80	90	100	70
14.	152079	60	22	8	0	56	100	100	100	80	90	100	80
15.	152013	96	52	78	70	86	100	100	100	80	90	100	70
16.	152070	92	40	70	70	64	100	100	100	80	90	100	0
17.	152011	72	70	90	82	98	100	100	100	80	90	100	0
18.	152004	20	40	50	38	62	100	100	100	80	90	100	80
19.	152039	64	40	62	38	40	100	100	100	100	90	100	70
20.	152083	40	18	20	0	40	100	100	100	80	90	100	90
21.	152017	88	40	44	68	8	100	100	100	100	90	100	90
22.	152046	72	23	78	78	90	100	100	100	100	90	100	70
23.	152059	92	40	88	72	94	100	100	100	100	100	100	80
24.	152026	96	40	80	80	74	100	100	100	100	90	100	60
25.	152052	80	80	84	68	88	100	100	100	100	90	100	50
26.	152304	96	87	60	20	96	100	100	100	100	90	100	70
27.	152047	96	40	86	86	96	100	100	100	100	90	100	70
28.	152003	76	90	98	90	98	100	100	100	100	100	100	70
29.	152045	68	88	82	66	72	100	100	100	100	90	100	80
30.	152042	96	88	72	64	88	90	100	100	100	90	100	90
31.	152065	96	78	72	72	78	100	100	100	100	70	100	50
32.	152035	96	43	66	58	74	90	100	100	100	90	100	70
33.	152074	72	78	76	68	70	100	100	100	100	90	100	50
34.	152041	84	70	80	72	64	100	100	100	100	90	100	0
35.	152034	80	40	92	84	82	100	100	100	100	90	100	0
36.	152014	92	80	74	82	96	100	100	100	100	90	100	50
37.	152058	66	70	86	86	60	100	100	100	100	90	100	60
38.	152008	96	85	94	94	A	100	100	100	100	90	100	50
39.	152054	84	85	42	66	84	90	100	100	100	90	100	50
40.	152002	76	93	96	96	94	100	100	100	100	90	100	60
41.	152005	96	100	96	96	98	90	100	100	100	90	100	70
42.	152018	56	43	60	52	78	90	100	100	100	90	100	80
43.	152301	68	76	78	70	80	90	100	100	100	90	100	70
44.	152068	64	40	80	72	64	90	100	100	100	90	100	70
45.	152055	64	93	78	62	60	100	100	100	100	70	100	70

46.	152033	96	80	98	98	96	100	100	100	100	70	100	70
47.	152084	76	76	60	52	60	100	100	100	100	70	100	0
48.	152064	72	60	70	78	90	100	100	100	100	90	100	80
49.	152057	76	28	58	42	68	100	100	100	100	90	100	70
50.	152102	72	40	80	72	92	100	100	100	100	90	100	70
51.	152076	96	A	62	54	64	100	100	100	100	90	100	70
52.	152051	76	82	54	40	88	80	100	100	100	90	100	50
53.	152303	92	28	66	66	88	100	100	100	100	90	100	80
54.	152040	76	44	70	78	96	100	100	100	60	90	100	70
55.	152001	92	86	88	88	92	100	100	100	80	90	100	80
56.	152049	76	16	52	60	60	100	100	100	80	90	100	70
57.	152030	A	90	92	84	98	100	100	100	100	90	100	80
58.	152006	96	78	72	72	96	100	100	100	100	90	100	50
59.	152103	76	70	60	68	84	100	100	100	100	70	100	70
60.	152078	92	66	66	58	92	100	100	100	100	90	100	70
61.	152009	92	56	88	72	72	100	100	100	100	90	100	50
62.	152015	96	62	78	70	92	100	100	100	100	90	100	70
63.	152061	80	70	80	72	94	100	100	100	100	90	100	0
64.	152302	96	34	68	76	92	100	100	100	100	90	100	80
65.	152053	76	48	76	68	48	100	100	100	0	90	100	60
66.	152043	68	50	60	0	60	80	100	100	0	90	100	90
67.	152066	88	60	56	48	99	100	100	100	100	90	100	80
68.	152029	92	76	78	62	92	100	100	100	100	90	100	70
69.	152056	68	58	82	90	92	100	100	100	100	90	100	80
70.	152075	92	82	84	76	60	80	100	100	100	90	100	80
71.	152080	96	70	96	88	96	100	100	100	100	90	100	70
72.	152022	96	76	80	72	92	100	100	100	100	90	100	0
73.	152063	88	82	82	74	96	100	100	100	100	90	100	70
74.	152036	76	60	72	72	76	100	100	100	100	90	100	50
75.	152069	92	78	88	72	76	100	100	100	100	90	100	60
76.	152028	96	76	90	82	86	100	100	100	100	90	100	0
77.	152031	96	80	92	84	92	100	100	100	100	90	100	50
78.	152023	84	38	70	62	96	100	100	100	100	90	100	50
79.	152027	92	72	A	A	56	100	100	100	100	90	100	70
80.	152073	40	46	64	56	70	100	100	100	100	90	100	70
81.	152082	68	62	82	74	90	100	100	100	80	90	100	50
82.	152020	76	76	70	62	96	100	100	100	100	90	100	90
83.	152101	48	50	58	26	64	100	100	100	100	90	100	90
84.	152081	48	40	82	100	54	100	100	100	80	70	100	80
85.	152012	88	80	92	92	96	100	100	100	100	90	100	80
86.	152067	96	72	94	94	99	100	100	100	100	90	100	100
87.	152038	80	98	80	80	92	100	100	100	90	90	100	60
88.	152025	88	82	98	98	96	100	100	100	100	90	100	70
89.	162910	36	28	40	0	46	90	100	100	100	90	100	80
90.	162906	56	70	70	46	14	90	100	100	100	6	100	60
91.	162903	40	0	6	0	0	90	100	100	0	90	100	80
92.	162904	64	100	74	58	A	90	100	100	100	90	100	60
93.	162907	68	63	56	56	92	100	100	100	100	90	100	80
94.	162911	60	8	60	32	99	80	100	100	0	90	100	60
95.	162912	72	52	60	32	0	100	100	100	80	5	100	70

96.	162909	36	58	62	32	78	100	100	100	60	90	100	60
97.	162908	36	12	56	0	0	100	100	100	0	90	100	50
98.	162901	52	36	66	52	74	100	100	100	100	90	100	80
99.	162902	88	56	82	74	78	100	100	100	0	90	100	80
100.	162905	76	54	54	54	0	100	100	100	0	90	100	90
101.	172401	28	16	20	0	40	100	100	100	0	90	100	90

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count												
	CIT					Assignments			Quiz	Tutorial		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO3	CO1	CO2	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	Q1	T1	T2	
C	87	56	81	72	85	101	101	101	89	99	101	63
%	87	56.57	81	72	85.86	100	100	100	88.12	98.02	100	62.38
L	3	0	3	2	3	3	3	3	3	3	3	1

Attainment Calculation:

Survey:

Survey	C313.1	C313.2	C313.3	C313.4	C313.5
Obtained %	96.81	96.58	97.05	97.05	94.56
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C313:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C313.1	3	3		-	3	3	1	1.8	3	2.04
C313.2	0	3		-	3	1.2	1	1.08	3	1.46
C313.3	3	3		3	-	3	1	1.8	3	2.04
C313.4	2	-		-	-	2	1	1.4	3	1.72
C313.5	3	-		-	-	3	1	1.8	3	2.04
C313										1.86

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C313.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C313.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C313.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C313.4	AU Exam	[1*Internal Test]
C313.5	AU Exam	[1*Internal Test]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C313 = \frac{C313.1 + C313.2 + C313.3 + C313.4 + C313.5}{5} = 1.86$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6604 Design of Electrical Machines: C314
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
1	152060	100	100	100	98	100	80	90	80	80	80	100	100	90	100	90	90
2	152077	72	88	96	94	94	20	80	70	70	60	80	80	80	80	80	90
3	152044	88	88	96	42	60	80	90	80	90	70	80	80	80	80	80	80
4	152037	96	100	92	96	96	80	90	80	90	80	80	80	80	80	70	80
5	152305	0	68	60	34	52	80	90	90	80	80	80	80	80	80	70	50
6	152021	36	98	0	72	78	80	80	80	80	70	60	70	60	70	80	80
7	152050	64	0	0	84	84	50	60	60	50	60	80	80	80	80	80	60
8	152032	64	70	92	78	56	50	60	60	50	60	80	80	80	80	80	70
9	152016	64	70	84	86	92	80	80	80	90	80	80	80	80	80	80	80
10	152051	60	100	80	92	100	80	80	80	80	60	60	70	70	60	80	70
11	152019	100	93	76	96	96	80	80	80	90	80	80	80	80	80	80	80
12	152062	32	25	32	38	76	80	80	90	80	90	80	80	80	80	80	0
13	152048	44	45	32	44	38	80	80	90	90	90	80	80	80	80	80	50
14	152079	28	35	60	6	2	50	60	60	60	80	90	100	90	90	80	0
15	152013	64	73	0	74	88	80	80	80	90	60	80	80	80	80	90	50
16	152070	80	65	88	84	74	80	80	80	80	80	80	80	80	80	80	60
17	152011	76	100	56	92	80	80	80	80	80	90	90	90	100	100	80	80
18	152004	24	53	64	72	10	70	80	80	80	80	80	80	80	80	90	60
19	152039	64	68	60	42	50	50	60	60	50	80	80	80	80	80	80	50
20	152083	8	0	24	10	0	50	60	60	70	60	80	80	80	80	80	0
21	152017	0	93	48	94	52	80	80	80	80	80	60	70	70	70	70	70
22	152046	68	50	88	88	64	80	80	80	80	90	80	80	80	70	80	80
23	152059	80	57	84	52	70	80	90	80	80	80	90	90	90	100	100	70
24	152026	92	93	88	90	88	80	90	90	80	90	80	80	80	80	80	70
25	152052	96	83	96	88	80	80	80	80	80	90	90	90	90	90	90	90
26	152304	96	75	64	90	96	80	90	80	90	90	80	80	80	80	80	80
27	152047	88	60	76	74	96	80	90	90	90	80	80	80	80	80	80	70
28	152003	92	100	100	94	100	80	80	80	80	80	80	80	80	80	80	80
29	152045	76	100	88	80	80	80	80	80	80	80	60	70	60	70	70	80
30	152042	80	90	80	94	96	80	80	80	80	80	60	70	70	70	70	70
31	152065	96	93	96	72	80	80	80	80	80	80	90	90	90	100	90	70
32	152035	80	75	28	54	96	80	80	90	90	80	80	80	80	80	80	70
33	152074	96	100	100	90	100	80	80	80	90	90	80	80	80	80	80	80
34	152041	60	58	92	78	70	80	90	90	80	80	80	80	80	80	80	70
35	152034	92	73	40	92	92	80	80	80	90	80	90	90	90	80	80	70
36	152014	96	70	92	88	88	80	80	80	80	80	90	90	90	90	90	70
37	152058	96	85	92	84	82	80	90	80	80	80	80	80	80	90	90	70
38	152008	96	100	92	82	96	80	80	90	90	80	80	80	80	80	80	80
39	152054	72	78	22	54	80	80	90	80	80	80	80	80	80	80	80	50
40	152002	100	100	92	96	100	80	90	90	90	80	80	80	80	80	80	80
41	152005	100	100	100	98	100	80	80	90	90	80	80	80	80	80	80	90
42	152018	56	63	68	70	62	80	80	80	90	80	80	80	80	80	80	70
43	152301	96	45	52	54	84	80	80	80	80	80	90	90	90	80	80	90
44	152068	60	78	0	32	54	70	80	80	80	80	90	100	90	90	80	70
45	152055	92	95	88	90	92	80	90	90	90	80	80	80	80	80	80	90

46	162910	56	35	16	48	36	80	90	80	90	80	80	80	80	80	80	0
47	162906	20	25	48	62	50	70	80	80	70	70	90	90	80	100	80	50
48	162903	0	13	4	2	28	80	80	90	80	80	80	80	80	80	80	0
49	162904	28	65	16	38	24	80	90	90	80	80	80	80	80	80	80	50
50	162907	84	58	88	76	70	60	70	80	70	70	80	80	80	80	80	70
51	152033	88	93	72	90	98	80	90	80	90	80	90	90	90	90	90	80
52	152084	64	60	20	70	0	60	70	70	70	70	70	70	80	80	80	50
53	152064	80	58	52	70	45	80	80	80	80	80	80	80	80	80	80	70
54	152057	44	58	0	52	86	50	60	60	70	80	60	60	70	70	70	70
55	152102	80	20	32	58	40	80	80	80	70	80	70	70	70	70	70	0
56	152071	72	93	52	52	50	80	80	90	90	90	90	90	80	80	80	80
57	152076	80	85	88	76	88	50	60	70	70	80	60	60	60	70	70	70
58	152303	64	75	36	0	36	60	70	70	80	80	60	60	70	70	70	60
59	152040	88	83	88	84	88	80	80	80	80	80	70	70	70	70	70	70
60	152001	88	90	92	88	82	80	80	90	90	90	80	80	80	80	80	80
61	152049	36	10	32	46	6	60	70	80	80	80	70	70	70	70	70	50
62	152030	100	95	92	96	96	80	80	80	80	80	90	90	90	90	90	100
63	152006	92	95	80	90	98	80	80	80	80	80	90	90	90	90	80	70
64	152103	72	53	40	68	80	60	70	70	80	80	70	90	90	90	80	60
65	152078	56	68	52	62	62	50	70	80	80	80	60	70	70	70	70	60
66	152009	72	60	68	70	68	80	80	80	80	90	90	90	90	90	80	60
67	152015	88	53	72	70	66	80	80	80	80	90	90	90	90	90	80	80
68	152061	92	95	76	92	86	80	80	80	80	80	90	90	90	90	90	70
69	152302	92	100	72	90	100	80	80	80	80	80	90	90	90	90	80	70
70	152053	52	23	40	50	42	60	70	80	70	70	70	70	70	80	80	50
71	152043	48	43	24	26	40	70	80	80	80	80	80	80	80	80	80	0
72	152066	72	80	40	62	86	80	80	80	80	80	90	90	90	90	90	70
73	152029	80	90	64	90	82	80	80	80	80	80	90	90	90	90	90	70
74	152056	52	43	40	64	74	80	80	90	90	90	90	90	90	90	90	50
75	152075	72	88	72	90	100	80	80	90	80	80	90	90	90	90	90	60
76	152080	78	80	56	66	92	80	80	80	80	80	90	90	90	90	90	70
77	152022	88	80	56	78	0	80	80	80	80	80	90	90	90	90	90	70
78	152063	78	95	80	92	96	80	80	80	80	80	90	90	90	90	80	80
79	152036	84	78	0	72	70	50	60	70	80	80	60	60	60	60	70	70
80	152069	96	100	80	96	94	80	80	80	80	80	90	90	90	90	90	80
81	152028	88	72	52	60	76	80	80	80	80	90	90	90	90	80	80	70
82	152031	84	60	96	82	84	80	80	80	80	90	90	90	90	80	80	70
83	152027	0	58	76	86	56	80	80	80	80	80	90	90	90	90	90	50
84	152023	80	90	20	0	50	60	70	80	80	80	70	70	70	80	80	90
85	152073	4	20	24	34	40	80	80	80	80	80	90	90	90	90	90	50
86	152082	20	30	24	72	0	80	80	80	80	80	90	90	90	90	90	0
87	152020	56	100	100	86	68	50	60	70	80	80	60	60	60	60	60	70
88	152101	76	68	40	88	68	50	60	70	80	80	60	60	60	60	70	50
89	152081	4	75	12	46	0	50	60	70	80	80	60	60	60	60	70	0
90	152012	92	95	84	82	94	80	80	80	80	80	90	90	90	90	90	80
91	152067	100	95	84	88	100	80	80	80	80	80	90	90	90	90	90	90
92	152038	88	90	68	96	86	80	80	80	80	80	90	90	90	90	90	80
93	152025	64	73	40	88	72	80	80	80	80	80	90	90	90	90	90	70
94	162911	44	48	24	24	12	60	80	80	80	80	70	70	70	80	80	0
95	162912	12	5	36	36	0	50	80	70	70	80	60	60	60	70	70	50

96	162909	4	55	36	78	16	70	80	80	80	80	80	80	80	80	80	0
97	162908	40	52	36	40	46	80	80	80	80	80	90	90	90	90	90	50
98	162901	36	28	48	46	24	80	80	80	80	80	90	90	90	90	90	70
99	162902	72	18	44	60	0	80	80	80	80	80	90	90	90	90	90	50
100	162905	0	23	52	58	12	80	80	80	80	80	90	90	90	90	90	50
101	172401	0	58	8	20	18	80	80	80	80	80	90	90	90	90	80	0

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C(7)$ grade in AU |
L – Level, C-Count

	CIT					Assignments			Seminar	Quiz	Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
C	70	67	53	70	66	74	82	85	97	95	87	93	93	96	100	63
%	69.31	66.34	52.48	69.31	65.35	73.27	81.19	84.16	96.04	94.06	86.14	92.08	92.08	95.05	99.01	62.38
L	1	1	0	1	1	2	3	3	3	3	3	3	3	3	3	1

Attainment Calculation:

Survey:

Survey	C314.1	C314.2	C314.3	C314.4	C314.5
Obtained %	97.27	96.81	97.27	97.05	95.92
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C314:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C314.1	1	2	-	-	3	1.6	1	1.24	3	1.59
C314.2	1	3	-	-	3	1.8	1	1.32	3	1.66
C314.3	0	3	-	-	3	1.2	1	1.08	3	1.46
C314.4	1	-	3	-	3	1.6	1	1.24	3	1.59
C314.5	1	-	-	3	3	1.6	1	1.24	3	1.59
C314										1.58

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C314.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C314.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C314.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C314.4	AU Exam	[0.7*Internal Test + 0.1*Seminat + 0.2*Tutorial]
C314.5	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.2*Tutorial]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C314 = \frac{C314.1 + C314.2 + C314.3 + C314.4 + C314.5}{5} = 1.58$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6002 Power System Transients: C315E1
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	152060	96	98	93	95	94	100	100	100	100	100	80
2	152077	96	82			92	100	100	100	100	100	70
3	152044	96	10	53	85	86	100	100	100	90	90	60
4	152037	92	96	97	85	94	100	100	100	100	100	70
5	152305	96	76	53	50	50	100	100	100	90	100	50
6	152021	88	62	63	75	90	100	100	100	90	100	50
7	152050	96		60	70	64	100	100	100	100	100	70
8	152032	92	28	33	30	62	100	100	100	80	90	50
9	152016	88	84	63	75	80	100	100	100	90	100	70
10	152051	96	80	93	60	92	100	100	100	100	100	70
11	152019	96	76	93	95	94	100	100	100	100	100	70
12	152062	96	24	63	75	86	100	100	100	100	100	0
13	152048	88	4	40	75	50	100	100	100	80	90	50
14	152079	96	62	50	50	60	100	100	100	90	100	0
15	152013	96	76	80	90	92	100	100	100	100	100	70
16	152070	96	62	57	90	90	100	100	100	90	100	60
17	152011	96	64	97	60	90	100	100	100	100	100	70
18	152004	72	20	0	0	82	100	100	100	80	90	50
19	152039	92	78	0	60	88	100	100	100	80	90	60
20	152083	60	63	0	40	50	100	100	100	80	90	50
21	152017	50	74	37	55	80	100	100	100	80	90	70
22	152046	96	14	75	63	82	100	100	100	90	100	70
23	152059	96	92	83	95	90	100	100	100	100	100	70
24	152026	96	86	63	75	90	100	100	100	100	100	80
25	152052	92	68			86	100	100	100	90	100	50
26	152304	96	92			92	100	100	100	100	100	50
27	152047	96	78	75	63	92	100	100	100	100	100	60
28	152003	96	76	97	75	92	100	100	100	100	100	80
29	152045	84	24	80	90	94	100	100	100	100	100	80
30	152042	80	86	67	95	86	100	100	100	100	100	70
31	152065	96	62	75	97	94	100	100	100	100	100	90
32	152035	72	66	63	75	92	100	100	100	100	100	50
33	152074	96	62	83	90	90	100	100	100	100	100	60
34	152041	96	64	90	83	92	100	100	100	100	100	60
35	152034	96	76	77	75	82	100	100	100	100	100	60
36	152014	96	62	93	95	88	100	100	100	100	100	70
37	152058	92	60	83	95	90	100	100	100	100	100	60
38	152008	96	80	93	95	92	100	100	100	100	100	80
39	152054	92	76	75	63	94	100	100	100	100	100	50
40	152002	96	96	93	95	94	100	100	100	100	100	70
41	152005	96	82	93	95	92	100	100	100	100	100	70
42	152018	96	16	0	40	90	100	100	100	80	90	50
43	152301	96	72	57	90	92	100	100	100	90	100	70
44	152068	84	92	57	90	86	100	100	100	100	100	60
45	152055	96	82	93	95	94	100	100	100	100	100	80

46	162910	80	62	50	50	8	90	100	100	90	100	60
47	162906	52	64	0	60	80	90	100	100	80	90	50
48	162903	64	70	37	0	50	90	100	100	80	90	0
49	162904	96	66	57	0	62	90	100	100	80	90	50
50	162907	96	88	67	95	90	90	100	100	90	100	60
51	152033	96	68	53	85	92	100	100	100	90	90	70
52	152084	88	50	50	50	50	100	100	100	80	80	50
53	152064	88	94	93	95	94	100	100	100	100	100	70
54	152057	88	62	60	0	70	100	100	100	90	90	70
55	152102	88	50	50	50	80	100	100	100	90	90	0
56	152076	96	85	50	65	90	100	100	100	90	90	60
57	152071	96	60	77	75	94	100	100	100	90	90	70
58	152303	96	10			50	100	100	100	90	90	50
59	152040	92	68	60	60	80	100	100	100	90	90	70
60	152001	96	56	57	90	90	100	100	100	90	90	70
61	152049	96	20			24	100	100	100	80	90	70
62	152030	96	92	93	90	94	100	100	100	100	80	70
63	152006	96	93	50	65	94	100	100	100	90	100	60
64	152103	80	56	50	80	94	100	100	100	90	90	70
65	152078	96	32	83	95	92	100	100	100	100	90	50
66	152009	96		53	50	80	100	100	100	90	100	60
67	152015	96	85	97	75	92	100	100	100	100	90	80
68	152061	96	66	93	95	94	100	100	100	100	100	80
69	152302	96	30	83	75	90	100	100	100	90	100	70
70	152053	64	28	0	65	30	100	100	100	80	90	50
71	152043	56	68	60	0	0	100	100	100	80	80	0
72	152066	90	86	83	95	92	100	100	100	100	80	60
73	152029	76	78	50	80	56	100	100	100	90	100	70
74	152056	96	58	83	75	80	100	100	100	100	100	50
75	152075	96	85	97	75	92	100	100	100	90	90	70
76	152080	96	92	93	95	94	100	100	100	100	100	80
77	152022	96	78	60	60	90	100	100	100	90	90	80
78	152063	96	82	93	90	92	100	100	100	100	100	80
79	152036		58	50	50	80	100	100	100	90	90	60
80	152069	96	92			92	100	100	100	100	100	80
81	152028	88	82	77	75	90	100	100	100	90	90	60
82	152031	96	88	75	63	90	100	100	100	100	100	70
83	152023	96	96	50	50	94	100	100	100	100	100	60
84	152027		50	0	80	20	100	100	100	80	80	50
85	152073	80	6	0	35	92	100	100	100	80	90	60
86	152082	88	62	57	90	90	100	100	100	80	90	50
87	152020	96	66	70	75	94	100	100	100	90	90	60
88	152101	64	32	63	75	70	100	100	100	90	90	70
89	152081	52	4	33	0		100	100	100	80	90	50
90	152012	96	96	93	95	92	100	100	100	100	100	70
91	152067	96	92	93	95	94	100	100	100	100	100	80
92	155038	96	84	93	95	94	100	100	100	100	100	70
93	152025	76	92	67	95	20	100	100	100	90	90	70
94	162911	88	30	0	65	90	90	100	100	80	90	0
95	162912	50	28	0	40		90	100	100	90	90	0

96	162909	96	60	53	50	80	90	100	100	100	100	60
97	162908	88	36	50	50	60	90	100	100	80	80	60
98	162901	84	74	57	90	50	90	100	100	80	80	60
99	162902	92	32	47	75	80	90	100	100	90	90	60
100	162905	72	58	50	0		90	100	100	90	90	0
101	172401	72	12	47	0	30	90	100	100	80	80	60

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C(7)$ grade in AU L – Level, C-Count											
	CIT					Assignments			Seminar	Quiz	AU
	CO1 CIT1	CO2 CIT2	CO3 CIT3	CO4 CIT4	CO5 CIT5	CO1 A1	CO2 A2	CO3 A3	CO4 S1	CO5 Q1	
C	94	70	54	71	83	101	101	101	101	101	47
%	93.07	69.31	53.47	70.3	82.18	100	100	100	100	100	46.53
L	3	1	0	2	3	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C315E1.1	C315E1.2	C315E1.3	C315E1.4	C315E1.5
Obtained %	95.72	94.36	96.16	94.81	94.61
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C315E1:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C315E1.1	3	3	-	-		3	0	1.2	3	1.56
C315E1.2	1	3	-	-		1.6	0	0.64	3	1.11
C315E1.3	0	3	-	-		0.9	0	0.36	3	1.89
C315E1.4	2	-	3	-		2.2	0	0.88	3	1.3
C315E1.5	3	-	-	3		3	0	1.2	3	1.56
C315E1										1.28

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C315E1.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C315E1.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C315E1.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C315E1.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C315E1.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C315E1 = \frac{C315E1.1 + C315E1.2 + C315E1.3 + C315E1.4 + C315E1.5}{5} = 1.28$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6611 Power Electronics And Drives Lab: C316

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060		90	100		90	100		90	100	96	100	100		80	100	100
2	152077		90	100	98	90	100		90	100		90	100		80	100	100
3	152044	92	90	100		90	100		90	100		90	100		80	100	90
4	152037		90	100		90	100	92	90	100		90	100		90	100	90
5	152305		80	90		80	90		80	90		90	90	90	80	80	90
6	152021	90	80	90		80	90		80	80		80	90		80	80	100
7	152050		80	90	90	80	90		80	90		80	90		80	80	90
8	152032		80	90		80	90		80	90		80	90	90	80	80	90
9	152016		80	90		80	90	90	80	90		80	90		80	90	90
10	152051		80	90		80	90		80	90	96	80	90		80	90	100
11	152019	96	90	100		90	100		90	100		90	100		90	100	100
12	152062		90	100	90	90	100		90	100		90	100		90	100	90
13	152048		80	80		80	80		80	80	90	80	80		80	80	90
14	152079		80	80		80	80		80	80		80	80	90	80	80	70
15	152013	90	90	100		90	100		90	100		90	100		80	100	90
16	152070		90	100	90	90	100		90	100		90	100		90	100	90
17	152011		90	100		90	100	92	90	100		90	100		90	100	100
18	152004		90	90		90	90		90	90		90	90	90	90	90	90
19	152039		90	90		90	90		90	90		90	90	90	90	80	90
20	152083		80	80		80	80		80	80	90	80	80		80	80	80
21	152017		80	80		80	80		80	80	90	80	80		80	80	90
22	152046		80	80	90	80	80		80	80		80	80		90	80	100
23	152059	92	90	100		90	100		90	100		90	100		90	100	100
24	152026		90	100	92	90	100		90	100		90	100		90	100	90
25	152052		90	100		90	100		90	100	98	90	100		90	100	100
26	152304		90	100		90	100	90	90	100		90	100		90	100	100
27	152047		90	100		90	100		90	100		90	100	91	90	100	90
28	152003		90	100		90	100		90	100		90	100	92	90	100	100
29	152045		90	100		90	100		90	100	90	90	100		90	100	90
30	152042		90	100		90	100	98	90	100		90	100		90	100	100
31	152065		90	100	90	90	100		90	100		90	100		90	100	90
32	152035	90	90	100		90	100		90	100		90	100		90	100	100
33	152074		90	100	90	90	100		90	100		90	100		90	100	100
34	152041		90	100		90	100	90	90	100		90	100		90	100	90
35	152034		90	100		90	100		90	100		90	100	90	90	100	90
36	152014		90	100		90	100		90	100		90	100	90	90	100	100
37	152058		90	100		90	100		90	100	92	90	100		90	100	90
38	152008		90	100		90	100	90	90	100		90	100		90	100	100
39	152054		90	100	90	90	100		90	100		90	100		90	100	90
40	152002		90	80		90	100		90	100	96	90	100		90	100	100
41	152005	96	90	100		90	100		90	100		90	100		90	100	100
42	152018		90	90		70	80		70	80		70	80	90	70	80	90
43	152301		90	100		80	100	90	90	100		80	100		90	100	90
44	152068		70	90		70	90		70	90		70	90	90	70	90	90
45	152055		90	100		90	100	98	90	100		100	90		90	100	90

46	162910		70	80		70	80		70	80		80	70	90	70	80	90
47	162906		70	80		70	80		70	80		80	70	90	70	80	90
48	162903	90	90	100		90	100		90	100		100	90		90	100	80
49	162904		70	80	90	70	80		70	80		80	70		70	80	90
50	162907		70	80		70	80	98	70	80		80	70		70	80	100
51	152033		80	90		80	90	94	80	85		80	90		80	85	100
52	152084		75	90	91	70	90		75	80		78	70		70	70	90
53	152064		85	85	95	90	90		85	90		85	90		90	90	100
54	152057		70	90		80	90		70	85		80	85	92	70	85	90
55	152102		75	90	91	75	90		75	80		73	90		75	90	90
56	152076		75	90		80	90		70	90		80	90	92	70	90	90
57	152071		85	90		85	90	93	80	90		80	90		85	90	100
58	152303		70	50		70	55		80	75	90	75	90		70	90	90
59	152040	93	80	90		80	85		80	80		80	90		80	90	90
60	152001		90	90		80	90		85	90	91	85	90		90	90	100
61	152049		70	90		70	65	90	70	70		70	90		70	90	90
62	152030		85	90	95	85	90		85	90		90	85		85	85	100
63	152006	95	90	90		90	90		80	90		88	90		90	95	100
64	152103		75	90		75	90		70	85	91	78	85		70	85	90
65	152078		85	100		85	95	93	80	90		88	93		90	90	90
66	152009		90	90		85	90		90	90		88	90	95	90	90	100
67	152015		90	100		90	95		90	90	95	90	93		90	90	100
68	152061		85	95		85	90		90	90		85	90	93	90	90	100
69	152302		85	90	94	85	90		85	85		88	90		80	90	100
70	152053		75	100		75	90	91	75	80		78	88		75	90	90
71	152043		80	90		70	85		80	75	92	78	85		80	90	90
72	152066		80	100	91	75	100		75	80		80	88		70	90	90
73	152029		80	90		80	90	92	70	85		75	90		75	90	90
74	152056	91	75	85		75	90		70	85		80	85		90	85	100
75	152075		90	90		90	90		85	90	90	83	90		85	90	90
76	152080		90	90		80	90		85	85	91	85	90		85	90	100
77	152022		85	60		85	60	93	90	90		85	95		85	95	100
78	152063	94	90	60		85	60		85	90		90	95		85	95	100
79	152036		80	20		75	40		70	85	91	75	93		75	90	90
80	152069		90	90		90	90		90	95	95	88	98		90	90	100
81	152028		90	65	94	80	60		90	90		90	93		80	95	100
82	152031	93	85	40		85	50		85	85		85	95		80	95	90
83	152023		85	80		80	70		85	75		85	95	92	80	95	100
84	152027		90	40		90	50	94	85	90		90	90		90	95	100
85	152073		80	85		80	70	91	85	85		80	95		80	90	90
86	152082		75	45		75	50		75	75	91	78	95		75	95	90
87	152020		85	100		85	90	93	85	85		80	95		85	95	90
88	152101		85	40		80	45	92	80	75		80	95		80	90	80
89	152081		80	0	91	80	30		75	85		73	95		70	95	80
90	152012		90	95		80	95	95	90	90		85	95		90	95	100
91	152067	94	90	95		90	90		80	90		88	95		90	95	100
92	152038		90	90		90	90		90	90		90	93	95	90	95	100
93	152025		85	65		85	65		85	85	93	85	93		85	95	90
94	162911		80	60		80	60		70	80		70	88	90	70	95	90
95	162912		75	80	91	75	80		75	85		75	95		80	95	90

96	162909		80	90		80	80		80	90	92	80	93		80	95	100
97	162908		75	50	92	75	50		75	85		75	93		75	95	90
98	162901		80	50		70	50		70	80	91	70	93		70	95	90
99	162902		80	65		80	60		80	85	93	80	95		80	95	90
100	162905		80	75		70	60		80	85	92	75	93		75	95	90
101	172401		70	30		70	15		70	40		70	93	90	70	95	80

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																	
	CO1			CO2			CO3			CO4			CO5			AU	
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R		
P	14	101	101	20	101	101	22	101	101	24	101	101	21	101	101	101	101
C	14	101	84	20	101	81	22	101	94	24	101	96	21	101	100	95	95
%	100	100	83.17	100	100	80.2	100	100	93.07	100	100	95.05	100	100	99.01	94.06	94.06
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C316.1	C316.2	C316.3	C316.4	C316.5
Obtained %	95.25	94.83	94.16	95.27	94.58
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C316:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C316.1	3	3	3	3	3	3	3	3
C316.2	3	3	3	3	3	3	3	3
C316.3	3	3	3	3	3	3	3	3
C316.4	3	3	3	3	3	3	3	3
C316.5	3	3	3	3	3	3	3	3
C316								3

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C316.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C316.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C316.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C316.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C316.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C316 = \frac{C316.1 + C316.2 + C316.3 + C316.4 + C316.5}{5} = 3$$

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1.	152060		100	100		100	100	99	100	100		100	100		100	100	100
2.	152077		100	100		100	100		100	100		100	100	98	100	100	100
3.	152044		100	100	95	100	100		90	90		90	90		90	90	100
4.	152037	99	100	100		95	95		100	100		100	100		100	100	100
5.	152305		100	100		100	100		90	80	90	90	80		90	90	90
6.	152021		100	100		95	95	97	100	100		100	100		100	100	100
7.	152050		90	90	86	90	90		90	90		90	90		90	90	90
8.	152032		100	100	96	100	100		100	100		100	100		90	90	90
9.	152016		100	100		90	90		90	90		90	90	95	90	90	100
10.	152051	96	100	100		100	100		90	90		95	95		100	100	90
11.	152019		100	100	99	95	95		100	100		100	100		100	100	100
12.	152062		100	100		100	100		100	100	98	100	100		100	100	90
13.	152048		100	100		100	100		90	90		90	90	95	90	90	90
14.	152079	95	100	100		90	90		90	90		90	90		90	90	80
15.	152013		100	100		90	90	97	100	100		100	100		100	100	90
16.	152070		100	100		100	100		90	90	95	90	90		90	90	90
17.	152011		100	100		100	100		100	100		100	100	99	100	100	100
18.	152004	94	100	100		100	100		100	100		90	90		90	90	90
19.	152039		100	100		100	100	88	80	80		80	80		80	80	80
20.	152083		100	100	86	80	80		80	80		80	80		80	80	80
21.	152017		100	100		80	80		100	100	94	100	90		95	90	90
22.	152046		100	100		100	100		100	100		100	100	98	100	100	100
23.	152059		100	100		100	100	99	90	90		90	90		90	90	100
24.	152026		100	100		100	95		100	100		100	100	99	100	100	90
25.	152052	99	100	100		100	100		100	100		100	100		100	100	100
26.	152304		100	100		100	100		100	100	99	100	100		100	100	100
27.	152047	99	100	100		100	100		100	100		100	100		100	100	100
28.	152003		100	100		100	100	99	100	100		100	100		100	100	100
29.	152045		100	100	99	100	100		100	100		100	100		100	100	100
30.	152042		100	100		100	100		100	100		100	100	98	100	100	100
31.	152065		100	100	98	100	100		100	100		100	100		100	100	100
32.	152035	97	100	100		100	100		100	100		100	100		100	100	100
33.	152074		100	100		100	100		100	100	98	100	100		100	100	100
34.	152041		100	100	99	100	100		100	100		100	100		100	100	100
35.	152034	99	100	100		100	100		100	100		100	100		100	100	100
36.	152014		100	100	99	100	100		100	100		100	100		100	100	100
37.	152058		100	100		100	100	99	100	100		100	100		100	100	100
38.	152008		100	100		100	100		100	100		100	100	99	100	100	100
39.	152054		100	100		100	100		100	100	97	100	100		100	100	100
40.	152002		100	100		100	100		100	100	99	100	100		100	100	100
41.	152005	99	100	100		100	100		100	100		100	100		100	100	100
42.	152018		100	100		100	100		100	100		100	100	98	100	100	100
43.	152301		100	100	99	100	100		100	100		100	100		100	100	100
44.	152068	96	100	100		95	90		90	90		90	80		90	80	90
45.	152055		100	100	99	100	100		100	100		100	100		100	100	90

46.	162910		100	100		80	80	94	80	80		80	80		100	100	100
47.	162906		100	100		90	90		90	90	95	90	90		90	90	90
48.	162903		100	100	90	80	80		80	80		80	80		80	80	90
49.	162904	92	100	100		95	90		90	90		90	90		90	90	90
50.	162907		100	100		100	100		100	100		100	100	97	100	100	100
51.	152033	92	100	90		100	90		100	90		100	90		100	90	100
52	152084		100	90		100	90	85	100	90		100	90		100	90	100
53	152064		100	90	98	100	90		100	90		100	90		100	90	100
54	152057		100	90	94	100	90		100	90		100	90		100	90	90
55	152102	95	100	90		100	90		100	90		100	90		100	90	80
56	152076		100	90		100	90	80	100	90		100	90		100	90	80
57	152071	99	100	90		100	90		100	90		100	90		100	90	100
58	152303	92	100	90		100	90		100	90		100	90		100	90	100
59	152040		100	90		100	90		100	90	85	100	90		100	90	100
60	152001		100	90		100	90		100	90	94	100	90		100	90	100
61	152049		100	90		100	90		100	90		100	90	96	100	90	90
62	152030		100	90		100	90		100	90	91	100	90		100	90	100
63	152006	94	100	90		100	90		100	90		100	90		100	90	100
64	152103		100	90		100	90	90	100	90		100	90		100	90	90
65	152078	96	100	90		100	90		100	90		100	90		100	90	90
66	152009		100	90		100	90		100	90		100	90	92	100	90	100
67	152015	97	100	90		100	90		100	90		100	90		100	90	100
68	152061	94	100	90		100	90		100	90		100	90		100	90	100
69	152302	89	100	90		100	90		100	90		100	90		100	90	100
70	152053		100	90		100	90		100	90		100	90	96	100	90	90
71	152043	94	100	90		100	90		100	90		100	90		100	90	90
72	152066	96	100	90		100	90		100	90		100	90		100	90	90
73	152029		100	90		100	90		100	90		100	90	96	100	90	100
74	152056	98	100	90		100	90		100	90		100	90		100	90	100
75	152075	96	100	90		100	90		100	90		100	90		100	90	100
76	152080	92	100	90		100	90		100	90		100	90		100	90	100
77	152022		100	90		100	90		100	90	95	100	90		100	90	100
78	152063	91	100	90		100	90		100	90		100	90		100	90	100
79	152036		100	90		100	90		100	90	89	100	90		100	90	90
80	152069		100	90		100	90	94	100	90		100	90		100	90	100
81	152028		100	90		100	90		100	90		100	90	96	100	90	100
82	152031		100	90		100	90		100	90	94	100	90		100	90	100
83	152023		100	90		100	90		100	90	85	100	90		100	90	90
84	152027		100	90		100	90		100	90		100	90	93	100	90	90
85	152073	94	100	90		100	90		100	90		100	90		100	90	90
86	152082		100	90		100	90		100	90	92	100	90		100	90	90
87	152020		100	90	98	100	90		100	90		100	90		100	90	100
88	152101		100	90		100	90	92	100	90		100	90		100	90	100
89	152081		100	90		100	90		100	90		100	90	75	100	90	90
90	152012	92	100	90		100	90		100	90		100	90		100	90	100
91	152067		100	90		100	90		100	90		100	90	91	100	90	100
92	152038		100	90		100	90		100	90		100	90	94	100	90	100
93	152025		100	90	92	100	90		100	90		100	90		100	90	100
94	162911		100	90		100	90	85	100	90		100	90		100	90	90
95	162912	91	100	90		100	90		100	90		100	90		100	90	90

96	162909		100	90		100	90		100	90		100	90	80	100	90	90
97	162908	90	100	90		100	90		100	90		100	90		100	90	90
98	162901		100	90		100	90		100	90	94	100	90		100	90	100
99	162902		100	90		100	90		100	90		100	90	75	100	90	100
100	162905		100	90	90	100	90		100	90		100	90		100	90	90
101	172401		100	90		100	90	75	100	90		100	90		100	90	80

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	30	101	101	17	101	101	15	101	101	18	101	101	21	101	101	101
C	30	101	101	17	101	101	14	101	101	18	101	101	19	101	101	95
%	100	100	100	100	100	100	93.33	100	100	100	100	100	90.48	100	100	94.06
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C317.1	C317.2	C317.3	C317.4	C317.5
Obtained %	92.58	91.92	92.61	91.69	91.94
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C317:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C317.1	3	3	3	3	3	3	3	3
C317.2	3	3	3	3	3	3	3	3
C317.3	3	3	3	3	3	3	3	3
C317.4	3	3	3	3	3	3	3	3
C317.5	3	3	3	3	3	3	3	3
C317								3

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C317.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C317.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C317.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C317.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C317.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C317 = \frac{C317.1 + C317.2 + C317.3 + C317.4 + C317.5}{5} = 3$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6613 Presentation Skills and Technical Seminar: C318

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	100			98			98			90			96			100
2	152077	100			100			98			92			94			100
3	152044	100			86			90			88			90			90
4	152037	100			98			98			94			90			100
5	152305	80			54			76			80			80			90
6	152021	90			86			86			84			84			90
7	152050	80			64			76			72			70			90
8	152032	80			80			80			82			84			90
9	152016	80			72			74			70			72			90
10	152051	80			56			74			70			72			90
11	152019	100			92			96			92			90			100
12	152062	100			90			90			90			92			90
13	152048	80			72			82			86			86			90
14	152079	100			90			92			90			90			100
15	152013	100			86			96			92			94			100
16	152070	100			72			90			88			90			100
17	152011	100			82			92			90			88			100
18	152004	100			76			84			90			88			90
19	152039	80			50			76			72			70			90
20	152083	80			50			76			72			70			90
21	152017	80			56			76			74			70			90
22	152046	80			90			90			88			86			90
23	152059	100			100			98			94			96			100
24	152026	100			90			90			88			88			90
25	152052	100			90			94			96			90			100
26	152304	100			92			92			90			90			100
27	152047	100			100			98			98			96			100
28	152003	100			96			96			92			90			100
29	152045	100			96			96			94			90			100
30	152042	80			80			80			88			84			100
31	152065	100			100			98			92			92			100
32	152035	100			92			94			90			90			100
33	152074	100			100			98			96			92			100
34	152041	100			92			92			90			90			100
35	152034	100			78			88			82			84			100
36	152014	100			82			90			88			92			100
37	152058	100			96			96			92			90			100
38	152008	100			100			98			94			94			100
39	152054	80			50			74			70			70			90
40	152002	100			96			96			90			90			100
41	152005	100			100			98			92			96			100
42	152018	100			64			84			82			88			90
43	152301	100			82			90			92			86			90
44	152068	80			50			70			70			70			90
45	152055	100			74			84			80			82			90

46	162910	80			50			70			70			70			90
47	162906	80			50			70			70			70			90
48	162903	80			50			70			70			70			90
49	162904	80			50			70			70			70			90
50	162907	100			84			90			94			92			90
51	152033	98															100
52	152084	90															90
53	152064	98															100
54	152057	90															90
55	152102				98												100
56	152076				90												90
57	152071				98												100
58	152303				80												80
59	152040							90									90
60	152001							90									90
61	152049							80									80
62	152030							98									100
63	152006										98						100
64	152103										90						90
65	152078										98						100
66	152009										98						100
67	152015													98			100
68	152061													98			100
69	152302													98			100
70	152053													80			80
71	152043	80															80
72	152066	80															80
73	152029	98															100
74	152056	98															100
75	152075				98												100
76	152080				98												100
77	152022				98												100
78	152063				90												90
79	152036							90									90
80	152069							98									100
81	152028							98									100
82	152031							98									100
83	152023										80						90
84	152027										80						90
85	152073										98						100
86	152082										80						90
87	152020													98			100
88	152101													80			80
89	152081													80			80
90	152012													98			100
91	152067	98															100
92	152038	98															100
93	152025	80															90
94	162911	80															80
95	162912				80												80

96	162909				80											80
97	162908				90											90
98	162901				80											80
99	162902							80								80
100	162905							80								80
101	172401							80								80

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	62			62			39			58			36			101
C	62			43			33			46			30			87
%	100			69.35			84.62			79.31			83.33			86.14
L	3			1			3			2			3			3

Attainment Calculation:

Survey:

Survey	C318.1	C318.2	C318.3	C318.4	C318.5
Obtained %	93.65	93.23	92.36	91.72	92.61
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C318:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C318.1	3			3	3	3	3	3
C318.2	1			1	3	2.2	3	2.36
C318.3	3			3	3	3	3	3
C318.4	2			2	3	2.6	3	2.68
C318.5	3			3	3	3	3	3
C318								2.81

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C318.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C318.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C318.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C318.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C318.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C318 = \frac{C318.1 + C318.2 + C318.3 + C318.4 + C318.5}{5} = 2.81$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6701 High Voltage Engineering: C401

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	Q1	Q2	
1.	152060	96	100	96	99	99	90	90	90	90	90	90
2.	152077	92	95	82	96	88	90	90	90	90	90	80
3.	152044	52	70	72	70	36	90	90	90	90	90	70
4.	152037	92	96	92	96	84	90	90	90	90	90	90
5.	152305	80	80	56	A	80	90	90	90	90	90	70
6.	152021	56	75	88	70	80	90	90	80	80	90	70
7.	152050	72	80	68	90	64	90	90	90	90	90	50
8.	152032	60	60	52	20	80	90	90	90	90	90	70
9.	152016	60	86	A	74	70	90	90	90	90	90	80
10.	152051	84	86	72	74	94	90	90	70	70	80	80
11.	152019	92	94	96	90	92	90	90	90	90	80	100
12.	152062	76	74	88	80	85	90	90	90	90	90	60
13.	152048	52	66	60	A	86	90	90	90	90	90	60
14.	152079	72	66	68	84	88	90	90	90	90	90	60
15.	152013	80	80	88	78	80	90	90	90	90	90	80
16.	152070	80	90	72	88	A	90	90	90	90	90	80
17.	152011	84	88	68	92	94	90	90	80	80	90	60
18.	152004	56	58	68	36	60	90	90	90	90	90	50
19.	152039	56	80	68	88	80	90	90	90	90	90	80
20.	152083	A	20	52	60	28	90	90	90	90	90	0
21.	152017	68	66	40	60	78	90	90	90	90	90	60
22.	152046	88	80	88	82	74	90	90	90	90	90	90
23.	152059	84	80	92	80	88	90	90	90	90	90	70
24.	152026	92	96	92	99	A	90	90	90	90	90	70
25.	152052	87	80	88	86	84	90	90	90	90	90	60
26.	152304	92	94	96	94	99	90	90	90	90	90	80
27.	152047	76	78	94	80	60	90	90	90	90	90	80
28.	152003	84	99	A	96	94	90	90	90	90	90	90
29.	152045	88	84	60	90	86	90	90	90	90	90	80
30.	152042	92	80	92	88	84	90	90	90	90	90	70
31.	152065	80	90	92	94	90	90	90	90	90	90	80
32.	152035	88	98	96	80	78	90	90	90	90	90	70
33.	152074	88	80	84	94	96	90	90	90	90	90	80
34.	152041	76	84	88	88	80	90	90	90	90	90	70
35.	152034	92	96	84	86	90	90	90	90	90	80	70
36.	152014	84	80	88	80	86	90	90	90	90	90	60
37.	152058	88	80	96	86	80	90	90	90	90	90	60
38.	152008	92	99	99	96	99	90	90	90	90	90	90
39.	152054	52	80	80	52	60	90	90	90	90	90	60
40.	152002	92	100	99	99	96	90	90	90	90	90	80
41.	152005	96	99	96	99	95	90	90	90	90	90	80
42.	152018	80	88	76	50	70	90	90	90	90	90	60
43.	152301	64	60	52	94	88	90	90	90	90	90	90
44.	152068	A	86	80	50	80	90	90	80	80	90	50
45.	152055	88	100	96	99	96	90	90	90	90	90	90
46.	152033	88	70	52	70	74	90	100	90	90	90	80

47.	152084	76	40	60	76	70	90	100	90	90	90	70
48.	152064	76	66	80	A	A	90	100	90	90	90	80
49.	152057	80	50	64	78	70	90	100	90	90	90	70
50.	152102	60	35	60	86	82	90	100	90	90	90	70
51.	152076	92	60	80	79	72	90	100	90	90	90	90
52.	152071	92	80	84	75	74	90	100	90	90	90	90
53.	152303	92	50	68	74	70	90	100	90	90	90	70
54.	152040	88	30	80	76	80	90	100	90	90	90	70
55.	152001	88	66	84	80	78	90	100	90	90	90	80
56.	152049	64	56	80	60	65	90	100	90	90	90	50
57.	152030	76	80	88	80	76	90	100	90	90	90	100
58.	152006	84	80	80	76	80	90	100	90	90	90	80
59.	152103	A	84	88	55	60	90	100	90	90	90	50
60.	152078	A	60	68	76	77	90	100	90	90	90	50
61.	152009	84	80	72	70	68	90	100	90	90	90	70
62.	152015	92	70	84	80	75	90	100	90	90	90	90
63.	152061	92	94	88	88	76	90	100	90	90	90	80
64.	152301	64	66	80	85	85	100	100	90	90	90	90
65.	152053	60	66	84	50	46	90	100	90	90	90	60
66.	152043	50	44	52	70	69	90	100	90	90	90	50
67.	152066	92	60	72	78	84	90	100	90	90	90	60
68.	152029	76	54	64	65	70	90	100	90	90	90	60
69.	152056	88	50	64	72	75	90	100	90	90	90	80
70.	152075	84	70	64	80	76	90	100	90	90	90	80
71.	152080	80	70	80	65	70	90	100	90	90	90	80
72.	152022	88	60	A	70	75	90	100	90	90	90	80
73.	152063	84	78	84	80	80	90	90	90	90	90	70
74.	152036	52	60	88	70	65	90	90	90	90	90	60
75.	152069	80	74	A	75	80	90	90	90	90	90	80
76.	152028	88	70	76	81	74	90	90	90	90	90	80
77.	152031	84	60	80	71	75	90	90	90	90	90	80
78.	152023	88	70	84	70	80	90	90	90	90	90	80
79.	152027	76	70	72	60	70	90	90	90	90	90	80
80.	152073	56	40	36	56	51	90	90	90	90	90	0
81.	152082	A	60	84	78	85	90	90	90	90	90	80
82.	152020	92	65	88	80	75	90	90	90	90	90	50
83.	152101	80	50	52	70	60	90	90	90	90	90	70
84.	152081	36	50	48	40	46	90	90	90	90	90	50
85.	152012	96	70	84	70	85	90	90	90	90	90	80
86.	152067	88	85	80	85	71	90	90	90	90	90	80
87.	152038	96	80	92	86	90	90	90	90	90	90	90
88.	152025	64	80	60	50	70	90	90	90	90	90	60
89.	162910	52	60	52	50	40	90	90	80	80	90	0
90.	162906	36	70	72	16	78	90	90	80	80	90	A
91.	162903	32	16	8	5	14	90	90	70	70	60	0
92.	162904	56	48	68	82	70	90	90	90	90	80	50
93.	162907	68	64	88	66	64	90	90	90	90	80	70
94.	162911	20	70	36	72	64	90	90	90	90	90	0
95.	162912	40	30	52	50	66	90	90	90	90	90	50
96.	162909	36	40	64	66	52	90	90	90	90	90	70

97.	162908	52	20	50	70	71	90	90	90	90	90	50
98.	162901	52	50	68	75	80	90	90	90	90	90	50
99.	162902	52	46	50	60	65	90	90	90	90	90	50
100.	162905	A	54	72	46	50	90	90	90	90	90	50
101.	172401	12	30	A	12	36	90	90	90	90	90	60

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count											
	CIT					Assignments			Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	
C	74	78	80	82	88	101	101	99	101	100	64
%	77.89	77.23	83.33	83.67	89.8	100	100	98.02	100	99.01	64
L	2	2	3	3	3	3	3	3	3	3	1

Attainment Calculation:

Survey:

Survey	C401.1	C401.2	C401.3	C401.4	C401.5
Obtained %	98.23	97.57	97.11	95.9	97.34
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C401:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C401.1	2	-		-		2	1	1.4	3	1.72
C401.2	2	3		-		2.3	1	1.52	3	1.82
C401.3	3	3		-		3	1	1.8	3	2.04
C401.4	3	3		3		3	1	1.8	3	2.04
C401.5	3	-		3		3	1	1.8	3	2.04
C401										1.93

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C401.1	AU Exam	[1*Internal Test]
C401.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C401.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C401.4	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C401.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C401 = \frac{C401.1 + C401.2 + C401.3 + C401.4 + C401.5}{5} = 1.93$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6702 Protection and Switchgear: C402

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1 CIT1	CO2 CIT2	CO3 CIT3	CO4 CIT4	CO5 CIT5	CO1 A1	CO3 A2	CO5 A3	CO4 S1	CO5 S2	CO2 Q1	CO3 Q2	
1	152060	80	99	76	98	92	100	100	100	100	100	100	100	90
2	152077	80	A	84	85	72	100	100	100	100	100	100	100	60
3	152044	48	90	76	48	32	90	100	100	100	100	100	100	70
4	152037	80	95	84	88	72	100	100	100	100	100	100	100	90
5	152305	60	78	44	52	64	90	100	100	100	100	100	100	70
6	152021	80	88	76	63	74	90	100	100	100	100	100	100	80
7	152050	56	90	72	75	38	90	100	100	100	100	100	100	70
8	152032	A	74	68	93	92	90	100	100	100	100	100	100	70
9	152016	80	78	A	75	68	90	100	100	100	100	100	100	70
10	152051	68	70	68	78	76	90	100	100	100	100	100	100	50
11	152019	96	75	80	83	84	100	100	100	100	100	100	100	80
12	152062	76	62	A	75	48	100	100	100	100	100	100	100	60
13	152048	44	A	32	A	60	90	100	100	100	100	100	100	50
14	152079	A	43	76	A	A	90	100	100	100	100	100	100	50
15	152013	64	88	76	73	78	100	100	100	100	100	100	100	60
16	152070	72	63	68	80	A	100	100	100	100	100	100	100	70
17	152011	80	93	52	90	82	100	100	100	100	100	100	100	70
18	152004	44	A	A	63	12	90	100	100	100	100	100	100	50
19	152039	52	78	64	62	62	90	100	100	100	100	100	100	70
20	152083	56	60	20	8	44	60	100	100	100	100	100	100	0
21	152017	48	A	48	68	58	90	100	100	100	100	100	100	60
22	152046	56	83	80	78	62	90	100	100	100	100	100	100	70
23	152059	72	73	92	90	76	100	100	100	100	100	100	100	70
24	152026	80	83	84	88	A	100	100	100	100	100	100	100	80
25	152052	76	93	88	88	82	100	100	100	100	100	100	100	70
26	152304	76	83	84	88	66	100	100	100	100	100	100	100	70
27	152047	84	75	72	85	70	100	100	100	100	100	100	100	80
28	152003	84	90	A	93	54	100	100	100	100	100	100	100	90
29	152045	64	78	68	78	88	100	100	100	100	100	100	100	60
30	152042	88	90	88	90	66	100	100	100	100	100	100	100	70
31	152065	76	93	80	95	78	100	100	100	100	100	100	100	90
32	152035	76	73	84	88	56	100	100	100	100	100	100	100	70
33	152074	88	88	76	88	78	100	100	100	100	100	100	100	70
34	152041	56	68	84	80	72	100	100	100	100	100	100	100	60
35	152034	84	90	84	90	70	100	100	100	100	100	100	100	80
36	152014	76	75	76	88	74	100	100	100	100	100	100	100	70
37	152058	76	90	64	73	62	100	100	100	100	100	100	100	80
38	152008	76	80	84	95	78	100	100	100	100	100	100	100	80
39	152054	76	83	52	68	54	90	100	100	100	100	100	100	50
40	152002	80	80	76	98	86	100	100	100	100	100	100	100	80
41	152005	92	85	92	95	90	100	100	100	100	100	100	100	80
42	152018	64	65	A	65	56	90	100	100	100	100	100	100	50
43	152301	68	75	60	80	54	100	100	100	100	100	100	100	70
44	152068	84	50	64	73	50	90	100	100	100	100	100	100	60
45	152055	84	88	72	93	90	100	100	100	100	100	100	100	80
46	162910	24	55	16	43	40	90	100	100	100	100	100	100	50

47	162906	32	52	48	40	A	90	100	100	100	100	100	100	0
48	162903	0	A	24	12	6	90	100	100	100	100	100	100	0
49	162904	48	63	56	55	22	90	100	100	100	100	100	100	0
50	162907	68	80	64	80	62	100	100	100	100	100	100	100	50
51	152033	60	79	70	75	90	100	100	100	90	90	80	90	70
52	152084	50	63	80	75	96	100	100	100	90	90	70	80	80
53	152064	56	67	75	70	A	100	100	100	90	90	70	80	80
54	152057	60	56	50	73	64	100	100	100	90	90	70	80	60
55	152102	52	45	80	45	80	100	100	100	90	90	70	80	50
56	152076	50	48	90	65	74	100	100	100	90	90	70	80	80
57	152071	80	78	75	75	92	100	100	100	90	90	80	90	80
58	152303	82	49	80	80	68	100	100	100	90	90	70	80	0
59	152040	72	82	80	80	90	100	100	100	90	90	90	90	0
60	152001	80	75	90	90	82	100	100	100	90	90	90	90	70
61	152049	86	60	80	80	56	100	100	100	90	90	70	80	60
62	152030	92	88	90	88	84	100	100	100	90	90	90	90	70
63	152006	80	73	90	78	88	100	100	100	90	90	80	90	70
64	152103	88	80	90	78	64	100	100	100	90	90	90	90	50
65	152078	72	65	80	80	94	100	100	100	90	90	80	90	60
66	152009	68	56	90	80	72	100	100	100	90	90	70	80	50
67	152015	84	90	40	85	88	100	100	100	90	90	90	90	70
68	152061	84	84	100	85	92	100	100	100	90	90	90	90	70
69	152302	72	65	90	80	92	100	100	100	90	90	80	90	50
70	152053	56	56	80	50	60	100	100	100	90	90	70	80	50
71	152043	50	25	90	75	80	100	100	100	90	90	70	80	0
72	152066	88	56	80	52	84	100	100	100	90	90	70	80	70
73	152029	80	66	70	75	82	100	100	100	90	90	70	80	70
74	152056	64	78	70	77	52	100	100	100	90	90	80	90	80
75	152075	68	74	90	90	92	100	100	100	90	90	80	90	70
76	152080	92	76	90	73	86	100	100	100	90	90	90	90	70
77	152022	80	78	90	82	78	100	100	100	90	90	80	80	70
78	152063	72	68	80	72	80	100	100	100	90	90	80	80	80
79	152036	60	65	50	80	90	100	100	100	90	90	80	90	60
80	152069	88	78	90	73	78	100	100	100	90	90	90	90	70
81	152028	92	68	80	75	80	100	100	100	90	90	80	90	70
82	152031	72	77	60	74	80	100	100	100	90	90	80	90	0
83	152023	76	82	90	85	66	100	100	100	90	90	90	90	80
84	152027	76	70	90	40	68	100	100	100	90	90	80	80	50
85	152073	60	46	0	63	50	100	100	100	90	90	70	80	50
86	152082	50	74	80	75	72	100	100	100	90	90	80	90	50
87	152020	76	72	90	83	94	100	100	100	90	90	80	90	60
88	152101	52	30	90	65	A	100	100	100	90	90	70	80	50
89	152081	28	28	20	44	50	100	100	100	90	90	70	80	0
90	152012	88	76	90	83	94	100	100	100	90	90	80	90	80
91	152067	92	88	90	95	88	100	100	100	90	90	90	90	90
92	152038	80	86	90	90	94	100	100	100	90	90	90	90	90
93	152025	84	70	90	62	58	100	100	100	90	90	70	80	70
94	162911	40	46	80	40	50	100	100	100	90	90	70	80	50
95	162912	40	50	0	60	32	100	100	100	80	80	70	80	50
96	162909	40	56	0	65	16	100	100	100	80	80	70	80	0

97	162908	28	57	80	57	54	100	100	100	80	80	70	80	0
98	162901	56	65	80	67	54	100	100	100	80	80	70	80	50
99	162902	52	50	70	77	70	100	100	100	80	80	70	80	50
100	162905	52	52	30	72	32	100	100	100	80	80	70	80	50
101	172401	56	33	50	50	24	100	100	100	80	80	70	80	0

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count													
	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO3	CO5	CO4	CO5	CO2	CO3	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
C	69	74	77	84	68	100	101	101	101	101	101	101	55
%	69.7	77.08	80.21	84.85	71.58	99.01	100	100	100	100	100	100	54.46
L	1	2	3	3	2	3	3	3	3	3	3	3	0

Attainment Calculation:

Survey:

Survey	C402.1	C402.2	C402.3	C402.4	C402.5
Obtained %	98.67	97.79	98.01	98	98.01
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C402:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C402.1	1	3	-	-		1.6	0	0.64	3	1.11
C402.2	2	-	-	3		2.2	0	0.88	3	1.3
C402.3	3	3	-	3		3	0	1.2	3	1.56
C402.4	3	-	3	-		3	0	1.2	3	1.56
C402.5	2	3	3	-		2.3	0	0.92	3	1.34
C402										1.37

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C402.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C402.2	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C402.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C402.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C402.5	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C402 = \frac{C402.1 + C402.2 + C402.3 + C402.4 + C402.5}{5} = 1.37$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course:EE6703 Special Electrical Machines: C403
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO3	CO2	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	Q2	
1	152060	100	82	96	98	90	100	100	100	100	100	100	90
2	152077	96	36	96	98	72	100	100	100	100	100	100	90
3	152044	60	90	60	30	30	100	100	100	100	100	100	60
4	152037	88	56	68	96	80	100	100	100	100	100	100	90
5	152305	84	78	60	70	58	100	100	100	100	100	100	70
6	152021	88	72	68	88	60	100	100	100	100	100	100	80
7	152050	68	50	64	70	66	100	100	100	100	100	100	70
8	152032	84	68	60	78	34	100	100	100	100	100	100	80
9	152016	76	56	72	86	58	100	100	100	100	100	100	80
10	152051	92	70	80	92	76	100	100	100	100	100	100	80
11	152019	100	62	88	88	80	100	100	100	100	100	100	90
12	152062	76	62	88	74	66	100	100	100	100	100	100	70
13	152048	64	50	60	72	A	100	100	100	100	100	100	60
14	152079	A	0	68	78	68	100	100	100	100	100	100	50
15	152013	96	84	84	88	70	100	100	100	100	100	100	70
16	152070	96	74	76	76	68	100	100	100	100	100	100	70
17	152011	96	64	60	94	84	100	100	100	100	100	100	80
18	152004	64	78	A	42	54	100	100	100	100	100	100	80
19	152039	56	78	76	92	64	100	100	100	100	100	100	80
20	152083	52	30	50	44	44	100	100	100	100	100	100	0
21	152017	68	50	28	88	36	100	100	100	100	100	100	70
22	152046	68	60	81	66	56	100	100	100	100	100	100	80
23	152059	84	80	88	84	80	100	100	100	100	100	100	80
24	152026	72	88	64	72	A	100	100	100	100	100	100	70
25	152052	92	84	84	74	82	100	100	100	100	100	100	70
26	152304	92	86	68	98	74	100	100	100	100	100	100	70
27	152047	80	80	76	84	76	100	100	100	100	100	100	70
28	152003	96	82	A	96	76	100	100	100	100	100	100	80
29	152045	92	88	96	A	86	100	100	100	100	100	100	70
30	152042	88	82	72	70	70	100	100	100	100	100	100	70
31	152065	96	78	92	84	78	100	100	100	100	100	100	80
32	152035	96	80	68	80	60	100	100	100	100	100	100	70
33	152074	96	62	92	94	92	100	100	100	100	100	100	80
34	152041	72	70	92	80	50	100	100	100	100	100	100	70
35	152034	96	100	96	88	A	100	100	100	100	100	100	80
36	152014	88	84	80	98	72	100	100	100	100	100	100	80
37	152058	100	70	76	82	82	100	100	100	100	100	100	60
38	152008	92	90	96	100	92	100	100	100	100	100	100	90
39	152054	64	82	68	80	60	100	100	100	100	100	100	80
40	152002	96	90	100	100	84	100	100	100	100	100	100	70
41	152005	96	88	68	98	84	100	100	100	100	100	100	70
42	152018	56	50	56	70	62	100	100	100	100	100	100	90
43	152301	88	64	60	68	64	100	100	100	100	100	100	80
44	152068	84	86	64	70	66	100	100	100	100	100	100	80
45	152055	80	98	96	96	86	100	100	100	100	100	100	70

46	162904	64	50	56	62	54	100	100	100	100	100	100	70
47	162907	52	56	80	84	60	100	100	100	100	100	100	60
48	162910	52	50	56	50	54	100	100	100	100	100	100	60
49	162903	80	A	50	14	14	100	100	100	100	100	100	0
50	162906	72	56	68	A	66	100	100	100	100	100	100	A
51	152033	A	96	60	84	62	100	100	100	100	100	100	80
52	152084	80	80	76	62	A	100	100	100	100	100	100	80
53	152064	96	86	96	88	A	100	100	100	100	100	100	70
54	152057	80	60	68	75	60	100	100	100	100	100	100	80
55	152102	68	62	52	74	68	100	100	100	100	100	100	80
56	152076	A	94	84	88	90	100	100	100	100	100	100	70
57	152071	96	94	92	A	92	100	100	100	100	100	100	80
58	152303	76	66	64	A	70	100	100	100	100	100	100	70
59	152040	96	88	76	70	70	100	100	100	100	100	100	80
60	152001	84	92	84	92	72	100	100	100	100	100	100	80
61	152049	92	66	72	54	24	100	100	100	100	100	100	80
62	152030	96	98	96	90	88	100	100	100	100	100	100	70
63	152006	92	88	88	92	90	100	100	100	100	100	100	70
64	152103	72	86	40	86	70	100	100	100	100	100	100	70
65	152078	92	86	92	84	92	100	100	100	100	100	100	80
66	152009	84	84	80	90	62	100	100	100	100	100	100	80
67	152015	96	96	72	82	86	100	100	100	100	100	100	70
68	152061	96	94	88	92	94	100	100	100	100	100	100	80
69	152302	96	88	88	78	84	100	100	100	100	100	100	80
70	152053	84	70	52	80	A	100	100	100	100	100	100	70
71	152043	75	68	76	80	54	100	100	100	100	100	100	80
72	152066	92	90	80	90	80	100	100	100	100	100	100	80
73	152029	80	86	84	84	58	100	100	100	100	100	100	70
74	152056	92	80	A	80	80	100	100	100	100	100	100	80
75	152075	96	96	80	92	82	100	100	100	100	100	100	80
76	152080	96	96	84	72	94	100	100	100	100	100	100	70
77	152022	96	84	92	96	92	100	100	100	100	100	100	70
78	152063	96	88	76	76	88	100	100	100	100	100	100	70
79	152036	88	88	68	84	60	100	100	100	100	100	100	80
80	152069	96	72	92	94	92	100	100	100	100	100	100	80
81	152028	92	96	88	88	74	100	100	100	100	100	100	80
82	152031	92	80	88	80	56	100	100	100	100	100	100	80
83	152023	A	78	72	88	56	100	100	100	100	100	100	70
84	152027	80	78	72	90	80	100	100	100	100	100	100	80
85	152073	88	74	52	68	42	100	100	100	100	100	100	70
86	152082	88	66	92	78	80	100	100	100	100	100	100	70
87	152020	96	84	96	92	70	100	100	100	100	100	100	70
88	152101	84	94	72	66	66	100	100	100	100	100	100	70
89	152081	76	78	52	38	48	100	100	100	100	100	100	80
90	152012	84	62	92	96	90	100	100	100	100	100	100	80
91	152067	96	94	92	94	86	100	100	100	100	100	100	80
92	152038	88	98	88	92	92	100	100	100	100	100	100	80
93	152025	88	92	84	86	58	100	100	100	100	100	100	80
94	162911	84	82	48	A	50	100	100	100	100	100	100	70
95	162912	60	60	60	A	60	100	100	100	100	100	100	80

96	162909	92	80	92	84	50	100	100	100	100	100	100	70
97	162908	92	82	72	62	70	100	100	100	100	100	100	80
98	162901	84	80	96	76	72	100	100	100	100	100	100	60
99	162902	84	80	A	70	70	100	100	100	100	100	100	60
100	162905	80	74	88	A	72	100	100	100	100	100	100	70
101	172401	64	60	72	18	42	100	100	100	100	100	100	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C(7)$ grade in AU L – Level, C-Count												
	CIT					Assignments			Seminar	Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO3	CO2	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	Q2	
C	92	87	85	86	72	101	101	101	101	101	101	89
%	94.85	87	87.63	91.49	75.79	100	100	100	100	100	100	89
L	3	3	3	3	2	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C403.1	C403.2	C403.3	C403.4	C403.5
Obtained %	98.89	96.68	98	97.36	98.22
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C403:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C403.1	3	3	-	-		3	3	3	3	3
C403.2	3	3	-	3		3	3	3	3	3
C403.3	3	3	3	-		3	3	3	3	3
C403.4	3	-	-	-		3	3	3	3	3
C403.5	2	-	-	3		2.2	3	2.68	3	2.74
C403										2.95

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C403.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C403.2	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C403.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C403.4	AU Exam	[1*Internal Test]
C403.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C403 = \frac{C403.1 + C403.2 + C403.3 + C403.4 + C403.5}{5} = 2.95$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: MG6851 Principles of Management: C404
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	152060	80	80	100	100	100	100	100	100	100	100	90
2	152077	50	56	100	100	100	100	100	100	100	100	80
3	152044	80	48	90	57.5	50	100	100	100	100	100	50
4	152037	100	70	A	A	98	100	100	100	100	100	80
5	152305	10	28	0	92.5	98	100	100	100	100	100	80
6	152021	90	64	40	57.5	72	100	100	100	100	100	70
7	152050	0	24	100	67.5	66	100	100	100	100	100	0
8	152032	90	60	A	A	84	100	100	100	100	100	80
9	152016	80	64	90	75	98	100	100	100	100	100	70
10	152051	80	68	A	A	88	100	100	100	100	100	50
11	152019	50	68	A	A	96	100	100	100	100	100	90
12	152062	40	22	20	92.5	96	100	100	100	100	100	90
13	152048	30	60	80	92.5	A	100	100	100	100	100	70
14	152079	60	30	70	77.5	86	100	100	100	100	100	70
15	152013	70	32	A	A	100	100	100	100	100	100	60
16	152070	20	66	90	92.5	86	100	100	100	100	100	70
17	152011	80	62	A	A	80	100	100	100	100	100	90
18	152004	0	22	0	7.5	18	100	100	100	100	100	80
19	152039	20	34	30	37.5	60	100	100	100	100	100	0
20	152083	0	2	0	26.5	28	100	100	100	100	100	80
21	152017	70	44	0	20	42	100	100	100	100	100	70
22	152046	80	66	A	A	74	100	100	100	100	100	60
23	152059	90	74	100	100	100	100	100	100	100	100	0
24	152026	50	60	100	95	A	100	100	100	100	100	80
25	152052	90	50	90	98	82	100	100	100	100	100	70
26	152304	50	44	100	98	100	100	100	100	100	100	50
27	152047	60	62	60	90	86	100	100	100	100	100	70
28	152003	50	74	100	92.5	100	100	100	100	100	100	80
29	152045	90	54	90	95	80	100	100	100	100	100	70
30	152042	40	70	90	97.5	86	100	100	100	100	100	80
31	152065	40	50	90	100	98	100	100	100	100	100	70
32	152035	0	62	70	82.5	74	100	100	100	100	100	50
33	152074	80	74	A	A	98	100	100	100	100	100	0
34	152041	30	38	70	77.5	80	100	100	100	100	100	60
35	152034	100	80	80	100	A	100	100	100	100	100	50
36	152014	50	50	100	95	84	100	100	100	100	100	50
37	152058	90	62	A	A	92	100	100	100	100	100	0
38	152008	100	74	100	100	100	100	100	100	100	100	0
39	152054	0	32	80	75	40	100	100	100	100	100	50
40	152002	30	64	90	100	84	100	100	100	100	100	50
41	152005	70	70	90	100	100	100	100	100	100	100	70
42	152018	90	36	50	62.5	76	100	100	100	100	100	60
43	152301	40	48	80	95	92	100	100	100	100	100	70
44	152068	80	56	A	A	86	100	100	100	100	100	80
45	152055	40	62	100	100	94	100	100	100	100	100	0

46	162910	0	4	75	12.5	30	100	100	100	100	100	60
47	162906	0	18	70	57	52	100	100	100	100	100	80
48	162903	0	0	0	25	14	100	100	100	100	100	80
49	162904	0	36	0	92.5	66	100	100	100	100	100	80
50	162907	20	42	70	67.5	82	100	100	100	100	100	70
51	152033	60	40	60	90	66	100	100	100	100	100	70
52	152084	20	38	70	52.5	100	100	100	100	100	100	90
53	152064	40	66	100	100	A	100	100	100	100	100	90
54	152057	50	54	18	68	80	100	100	100	100	100	80
55	152102	0	34	70	88	86	100	100	100	100	100	80
56	152076	50	62	A	A	94	100	100	100	100	100	70
57	152071	90	78	100	100	100	100	100	100	100	100	60
58	152303	50	50	70	68	100	100	100	100	100	100	0
59	152040	50	34	0	95	92	100	100	100	100	100	60
60	152001	40	64	80	93	80	100	100	100	100	100	70
61	152049	60	66	80	56	74	100	100	100	100	100	70
62	152030	90	76	90	100	80	100	100	100	100	100	60
63	152006	60	74	100	98	94	100	100	100	100	100	70
64	152103	60	72	40	98	94	100	100	100	100	100	90
65	152078	20	78	90	93	100	100	100	100	100	100	80
66	152009	50	60	A	A	92	100	100	100	100	100	80
67	152015	30	70	80	85	100	100	100	100	100	100	70
68	152061	100	80	100	100	100	100	100	100	100	100	70
69	152302	40	64	90	83	100	100	100	100	100	100	70
70	152053	0	50	40	83	80	100	100	100	100	100	60
71	152043	0	30	70	50	90	100	100	100	100	100	70
72	152066	30	74	A	A	96	100	100	100	100	100	
73	152029	50	72	70	93	74	100	100	100	100	100	70
74	152056	50	62	90	73	82	100	100	100	100	100	70
75	152075	90	A	100	98	100	100	100	100	100	100	60
76	152080	90	74	70	95	100	100	100	100	100	100	0
77	152022	50	78	A	A	96	100	100	100	100	100	70
78	152063	90	58	A	A	96	100	100	100	100	100	0
79	152036	60	66	90	93	100	100	100	100	100	100	60
80	152069	70	66	A	A	100	100	100	100	100	100	70
81	152028	90	64	A	A	100	100	100	100	100	100	50
82	152031	90	64	60	94	72	100	100	100	100	100	90
83	152023	50	56	60	78	94	100	100	100	100	100	90
84	152027	20	28	A	50	52	100	100	100	100	100	70
85	152073	60	40	50	38	72	100	100	100	100	100	70
86	152082	30	32	0	68	94	100	100	100	100	100	80
87	152020	60	68	80	95	98	100	100	100	100	100	90
88	152101	40	42	0	75	92	100	100	100	100	100	70
89	152081	90	A	90	40	28	100	100	100	100	100	60
90	152012	70	50	40	80	98	100	100	100	100	100	90
91	152067	70	68	80	90	98	100	100	100	100	100	70
92	152038	60	68	90	100	100	100	100	100	100	100	80
93	152025	70	70	80	98	82	100	100	100	100	100	90
94	162911	50	8	100	13	70	100	100	100	100	100	70
95	162912	A	A	20	20	94	100	100	100	100	100	70

96	162909	80	18	100	93	96	100	100	100	100	100	0
97	162908	60	38	0	10	100	100	100	100	100	100	70
98	162901	0	24	40	27	74	100	100	100	100	100	70
99	162902	0	24	10	0	A	100	100	100	100	100	50
100	162905	0	14	30	28	62	100	100	100	100	100	80
101	172401	0	30	60	50	62	100	100	100	100	100	90

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C(7)$ grade in AU L – Level, C-Count											
	CIT					Assignments			Survey	Quiz	AU
	CO1 CIT1	CO2 CIT2	CO3 CIT3	CO4 CIT4	CO5 CIT5	CO1 A1	CO2 A2	CO3 A3	CO4 S1	CO5 Q1	
C	46	50	60	62	86	101	101	101	101	101	67
%	46	51.02	72.29	73.81	89.58	100	100	100	100	100	66.34
L	0	0	2	2	3	3	3	3	3	3	1

Attainment Calculation:

Survey:

Survey	C404.1	C404.2	C404.3	C404.4	C404.5
Obtained %	97.36	96.71	97.79	96.7	96.47
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C404:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C404.1	0	3	-			0.9	1	0.96	3	1.37
C404.2	0	3	-			0.9	1	0.96	3	1.37
C404.3	2	3	-			2.3	1	1.52	3	1.82
C404.4	2	-	3			2.2	1	1.48	3	1.78
C404.5	3	-	-			2.4	1	1.56	3	1.85
C404										1.64

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C404.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C404.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C404.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C404.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C404.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C404 = \frac{C404.1 + C404.2 + C404.3 + C404.4 + C404.5}{5} = 1.64$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6005 Power Quality: C405E2

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4		CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1	
1	152060	100	95	96	100	100	100	90	80	96		96	90
2	152077	80	95	80	85	92	90	90	90	96		96	80
3	152044	60	83	56	50	85	80	80	90	92		92	70
4	152037	96	95	96	80	100	100	100	90	92		92	90
5	152305	48	100	24	50	93	80	90	90	92		92	70
6	152021	80	93	56	75	85	90	90	100	78		78	80
7	152050	52	100	68	70	90	80	90	100	88		88	80
8	152032	80	83	52	A	96	90	100	90	88		88	70
9	152016	44	80	40	63	94	80	90	90	88		88	60
10	152051	92	95	68	73	89	100	100	90	92		92	70
11	152019	100	85	88	70	80	100	90	80	92		92	90
12	152062	52	85	60	78	98	80	90	80	96		96	70
13	152048	60	38	52	50	92	80	90	100	96		96	55
14	152079	64	90	84	70	83	80	70	100	96		96	70
15	152013	56	100	84	83	98	90	100	90	96		96	70
16	152070	80	80	56	65	98	90	100	80	88		88	80
17	152011	80	95	84	88	98	90	90	80	88		88	70
18	152004	64	73	44	73	73	80	100	90	78		78	70
19	152039	56	73	44	55	78	80	90	90	92		92	70
20	152083	28	40	28	32	50	70	80	100	92		92	A
21	152017	32	73	16	55	78	70	80	80	92		92	80
22	152046	80	85	88	60	83	90	90	90	92		92	70
23	152059	88	98	A	A	90	100	90	90	92		92	80
24	152026	68	78	88	93	A	80	90	80	96		96	90
25	152052	92	93	92	85	A	90	90	90	92		92	80
26	152304	72	85	A	80	98	90	100	90	88		88	80
27	152047	76	90	84	90	93	90	100	90	76		76	70
28	152003	100	88	A	73	98	100	100	90	84		84	90
29	152045	64	98	88	65	100	90	90	90	84		84	80
30	152042	80	93	92	80	80	90	90	100	88		88	80
31	152065	84	95	92	88	98	100	90	100	88		88	80
32	152035	76	95	68	75	76	90	80	100	92		92	80
33	152074	88	95	68	88	93	90	80	80	96		96	80
34	152041	56	73	92	55	93	70	90	90	96		96	70
35	152034	64	98	96	80	98	90	90	90	96		96	90
36	152014	76	83	92	78	93	90	100	90	92		92	60
37	152058	76	90	88	70	88	90	100	90	92		92	70
38	152008	100	100	96	95	98	100	90	90	92		92	90
39	152054	80	98	72	53	98	90	90	100	96		96	70
40	152002	100	95	96	93	93	100	100	100	88		88	90
41	152005	100	100	96	87	100	100	90	100	88		88	100
42	152018	72	53	92	65	22	80	90	90	92		92	70
43	152301	76	83	68	60	93	90	90	100	92		92	70
44	152068	60	83	A	75	93	80	90	100	96		96	70
45	152055	88	95	96	93	96	90	90	90	92		92	70
46	162910	80	83	48	15	40	80	90	90	88		88	55

47	162906	28	A	40	45	83	70	80	80	96		96		A
48	162903	24	8	28	18	35	70	90	90	92		92		50
49	162904	72	88	48	80	80	90	80	90	96		96		70
50	162907	70	83	72	63	80	90	100	90	88		88		70
51	152033	84	93	A	85	80	100	100	90	92		92		70
52	152084	80	80	72	53	90	90	90	90	96		96		70
53	152064	72	90	88	98	90	90	90	90	92		92		80
54	152057	60	90	52	80	80	90	85	100	88		88		70
55	152102	64	85	80	40	60	80	95	90	76		76		80
56	152076	80	98	56	A	95	90	90	100	84		84		80
57	152071	96	100	A	95	96	100	100	90	84		84		90
58	152303	76	83	52	63	88	90	90	100	88		88		70
59	152040	88	98	72	85	98	90	100	100	88		88		70
60	152001	A	98	92	95	94	80	90	100	92		92		80
61	152049	64	95	44	85	50	90	90	100	96		96		70
62	152030	96	95	96	95	92	100	100	90	96		96		80
63	152006	88	98	92	68	92	90	90	90	96		96		80
64	152103	50	98	A	63	96	100	90	100	92		92		70
65	152078	72	95	84	78	98	90	85	90	92		92		90
66	152009	68	88	88	58	98	90	95	90	92		92		80
67	152015	92	85	84	70	90	90	90	90	96		96		90
68	152061	92	98	92	93	98	100	100	100	88		88		90
69	152302	72	90	84	A	64	90	100	90	88		88		80
70	152053	84	90	52	63	76	90	100	90	92		92		60
71	152043	64	75	76	93	76	80	90	90	92		92		60
72	152066	76	90	88	80	84	90	100	90	96		96		70
73	152029	80	98	88	70	84	90	100	90	92		92		80
74	152056	50	93	76	73	96	90	100	90	88		88		70
75	152075	80	A	92	93	96	80	90	100	96		96		80
76	152080	88	90	88	68	96	90	90	100	92		92		80
77	152022	88	98	92	70	A	90	100	100	96		96		80
78	152063	60	100	A	78	96	90	100	100	88		88		80
79	152036	72	85	88	A	92	80	90	80	92		92		70
80	152069	88	85	84	A	82	90	90	90	96		96		90
81	152028	84	93	80	80	86	90	100	100	96		96		80
82	152031	84	95	92	85	80	90	100	90	96		96		70
83	152023	88	90	96	80	72	90	90	100	88		88		80
84	152027	24	85	80	53	82	80	90	100	72		72		70
85	152073	24	85	72	40	64	80	100	100	96		96		60
86	152082	60	93	80	63	82	90	90	90	92		92		70
87	152020	84	98	68	68	90	100	90	100	92		92		70
88	152101	36	88	76	68	80	90	90	100	92		92		70
89	152081	32	23	54	68	62	70	90	100	96		96		70
90	152012	84	98	92	88	96	90	80	90	96		96		80
91	152067	100	88	96	75	90	100	100	100	96		96		90
92	152038	72	100	A	75	100	100	90	90	96		96		70
93	152025	72	98	56	75	70	90	80	90	92		92		70
94	162911	20	75	0	A	82	70	80	90	92		92		55
95	162912	96	A	80	63	A	90	100	90	96		96		70
96	162909	A	93	84	30	A	90	100	90	96		96		80

97	162908	44	95	56	45	A	90	90	80	92		92		80
98	162901	60	85	92	55	A	80	90	90	88		88		80
99	162902	56	93	80	40	A	90	100	90	78		78		70
100	162905	44	78	32	63	A	80	80	100	72		72		70
101	172401	12	63	52	28	35	90	90	90	92		92		70

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count													
	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4		CO5		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		
C	77	93	66	73	86	94	100	101	101		101		90
%	77.78	94.9	71.74	77.66	93.48	93.07	99.01	100	100		100		90.91
L	2	3	2	2	3	3	3	3	3		3		3

Attainment Calculation:

Survey:

Survey	C405E2.1	C405E2.2	C405E2.3	C4045E24	C405E2.5
Obtained %	97.79	97.78	97.12	96.92	97.13
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C405E2:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C405E2.1	2	3	-	-		2.3	3	2.72	3	2.78
C405E2.2	3	3	-	-		3	3	3	3	3
C405E2.3	2	3	-	-		2.3	3	2.72	3	2.78
C405E2.4	2	-	3	-		2.2	3	2.68	3	2.74
C405E2.5	3	-	-	3		3	3	3	3	3
C405E2										2.86

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C405E2.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C405E2.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C405E2.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C405E2.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C405E2.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C405E2 = \frac{C405E2.1 + C405E2.2 + C405E2.3 + C405E2.4 + C405E2.5}{5} = 2.86$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6008 Microprocessor Based System Design: C406E3
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO3	CO5		
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1		
1.	152060	100	100	88	100	96	100	100	100	100	100		80
2.	152077	84	100	56	100	85	100	100	100	100	100		80
3.	152044	52	83	32	0	54	100	100	100	100	100		50
4.	152037	76	100	100	76	80	100	100	100	100	100		80
5.	152305	92	98	60	48	80	100	100	100	100	100		70
6.	152021	92	90	64	76	63	100	100	100	100	100		80
7.	152050	76	80	56	70	0	100	100	100	100	100		50
8.	152032	92	100	60	66	75	100	100	100	100	100		70
9.	152016	80	90	56	58	45	100	100	100	100	100		70
10.	152051	80	65	92	86	40	100	100	100	100	100		70
11.	152019	100	100	88	94	90	100	100	100	100	100		80
12.	152062	92	90	88	70	79	100	100	90	100	90		70
13.	152048	40	18	0	60	48	100	100	100	100	100		50
14.	152079	56	65	84	82	80	100	100	90	100	100		60
15.	152013	84	90	72	78	83	100	100	90	100	100		80
16.	152070	76	0	92	0	85	100	100	90	100	100		70
17.	152011	100	95	80	91	85	100	100	100	90	100		70
18.	152004	68	73	20	15	5	100	100	100	100	100		60
19.	152039	92	42	64	68	78	100	100	100	90	90		60
20.	152083	44	53	28	32	45	100	100	100	90	90		0
21.	152017	40	88	16	0	15	100	100	100	90	90		70
22.	152046	88	80	44	90	65	100	100	100	100	90		80
23.	152059	100	100	80	92	70	100	100	100	100	100		80
24.	152026	100	88	84	94	0	100	100	100	100	100		80
25.	152052	100	98	68	84	70	100	100	100	100	100		70
26.	152304	88	90	92	93	78	100	100	100	100	100		70
27.	152047	84	100	60	83	85	100	100	100	100	100		80
28.	152003	100	0	0	93	65	100	100	100	100	100		80
29.	152045	100	100	96	98	85	100	100	100	100	100		70
30.	152042	100	100	88	87	80	100	100	100	100	100		90
31.	152065	100	80	96	96	78	100	100	100	100	100		80
32.	152035	100	100	64	72	70	100	100	100	100	100		50
33.	152074	72	70	92	79	70	100	100	100	100	100		90
34.	152041	0	100	76	80	75	100	100	100	100	100		70
35.	152034	100	88	96	86	75	100	100	100	100	100		80
36.	152014	0	95	88	98	83	100	100	100	100	100		70
37.	152058	100	100	92	96	68	100	100	100	100	100		80
38.	152008	100	100	88	98	85	100	100	100	100	100		80
39.	152054	72	83	64	72	28	100	100	100	100	100		70
40.	152002	100	100	92	96	80	100	100	100	100	100		90
41.	152005	100	100	96	96	85	100	100	100	100	100		100
42.	152018	60	0	52	64	50	100	100	100	100	100		60
43.	152301	92	100	60	90	68	100	100	100	100	100		80
44.	152068	84	88	50	54	56	100	100	90	90	90		80
45.	152055	100	100	88	96	88	100	100	100	100	100		100

46.	162910	60	0	50	64	38	100	90	90	90	90	50
47.	162906	84	70	44	64	75	100	90	90	90	90	70
48.	162903	50	40	32	15	20	100	90	90	90	90	0
49.	162904	52	53	44	70	53	100	90	90	90	90	70
50.	162907	96	85	80	72	55	100	100	100	100	100	70
51.	152033	80	88	80	78	83	100	100	100	100	100	70
52.	152084	64	65	72	76	80	100	100	100	100	100	70
53.	152064	96	90	80	84	90	100	100	100	100	100	80
54.	152057	84	73	40	72	33	100	100	100	100	100	70
55.	152102	64	70	52	80	63	100	100	100	100	100	70
56.	152076	28	0	86	0	78	100	100	100	100	100	80
57.	152071	100	98	60	96	95	100	100	100	100	100	90
58.	152303	56	78	0	48	30	100	100	100	100	100	70
59.	152040	72	82	68	72	68	100	100	100	100	100	80
60.	152001	92	93	88	84	0	100	100	100	100	100	80
61.	152049	88	66	40	22	13	100	100	100	100	100	50
62.	152030	100	95	96	100	100	100	100	100	100	100	70
63.	152006	96	98	84	92	85	100	100	100	100	100	80
64.	152103	76	98	80	80	79	100	100	100	100	100	70
65.	152078	68	90	52	82	88	100	100	100	100	100	80
66.	152009	92	72	80	80	78	100	100	100	100	100	70
67.	152015	84	98	80	95	80	100	100	100	100	100	70
68.	152061	92	98	84	94	93	100	100	100	100	100	80
69.	152302	68	88	88	78	0	100	100	100	100	100	70
70.	152053	56	0	68	63	55	100	100	100	100	100	50
71.	152043	56	66	68	90	93	100	100	100	100	100	50
72.	152066	100	92	72	62	85	100	100	100	100	100	70
73.	152029	84	90	88	92	80	100	100	100	100	100	70
74.	152056	68	93	44	86	85	100	100	90	100	100	70
75.	152075	96	0	84	88	85	100	100	100	100	100	80
76.	152080	96	100	84	96	98	100	100	100	100	100	80
77.	152022	88	98	84	96	0	100	100	100	100	100	80
78.	152063	80	93	68	88	78	100	100	100	100	100	80
79.	152036	64	0	84	82	90	100	100	90	100	100	60
80.	152069	92	100	88	84	95	100	100	90	100	100	90
81.	152028	84	74	60	84	90	100	100	90	100	100	80
82.	152031	84	0	80	70	70	100	100	90	100	100	80
83.	152023	80	88	72	80	80	100	100	100	100	100	80
84.	152027	88	82	72	74	80	100	100	90	100	100	70
85.	152073	56	53	50	40	40	100	100	100	100	100	60
86.	152082	80	100	80	82	73	100	100	100	100	100	80
87.	152020	80	94	80	90	93	100	100	90	100	100	80
88.	152101	50	73	60	78	55	100	100	100	100	100	60
89.	152081	40	80	24	34	30	100	100	90	100	100	70
90.	152012	96	95	92	96	96	100	100	100	100	100	80
91.	152067	100	100	96	98	80	100	100	90	100	100	80
92.	152038	100	0	96	96	95	100	100	90	100	100	70
93.	152025	88	80	60	72	30	100	100	90	100	100	70
94.	162911	60	45	24	0	25	100	100	90	100	100	70
95.	162912	52	38	56	45	25	100	90	90	100	100	70

96.	162909	64	86	52	0	0	100	100	90	100	100	70
97.	162908	40	86	44	40	73	100	100	90	90	100	60
98.	162901	68	62	72	92	80	100	100	90	100	100	70
99.	162902	80	86	72	80	60	100	90	90	100	100	70
100.	162905	76	0	64	63	28	100	90	90	100	100	60
101.	172401	40	0	24	40	28	90	90	90	90	100	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C(7)$ grade in AU L – Level, C-Count												
	CIT					Assignments			Survey		Quiz	
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO3		CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1	
C	82	81	72	82	69	101	101	101	101		101	
%	81.19	80.2	71.29	81.19	68.32	100	100	100	100		100	
L	3	3	2	3	1	3	3	3	3		3	

Attainment Calculation:

Survey:

Survey	C406E3.1	C406E3.2	C406E3.3	C406E3.4	C406E3.5
Obtained %	97.78	97.78	96.01	96.68	97.11
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C406E3:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C406E3.1	3	3	-	-		3	2	3	3	3
C406E3.2	3	3	-	-		3	2	3	3	3
C406E3.3	2	-	3	-		2.2	2	2.68	3	2.74
C406E3.4	3	3	-	-		3	2	3	3	3
C406E3.5	1	-	-	3		1.4	2	2.36	3	2.49
C406E3										2.85

Formula for Attainment Calculations:

CO	Attainment = $(0.6*AU + 0.4*IA)$	
	External Assessment (AU)	Internal Assessment (IA)
C406E3.1	AU Exam	$[0.7*Internal\ Test + 0.3*Assignment]$
C406E3.2	AU Exam	$[0.7*Internal\ Test + 0.3*Assignment]$
C406E3.3	AU Exam	$[0.8*Internal\ Test + 0.2*Seminars]$
C406E3.4	AU Exam	$[0.7*Internal\ Test + 0.3*Assignment]$
C406E3.5	AU Exam	$[0.8*Internal\ Test + 0.2*Quiz]$

Overall Attainment: $[0.8*DI + 0.2*Survey]$

$$C406E3 = \frac{C406E3.1 + C406E3.2 + C406E3.3 + C406E3.4 + C406E3.5}{5} = 2.85$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6711 Power System Simulation Lab: C407
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	99	90	90		90	90		90	90		90	90		90	90	100
2	152077		90	90		90	90	99	90	90		90	90		90	90	100
3	152044		90	90	95	90	90		90	90		90	90		90	90	100
4	152037		90	90		90	90		90	90	99	90	90		90	90	100
5	152305		80	90	90	80	90		90	90		90	90		90	90	100
6	152021		80	90		90	90		90	90	90	90	90		90	90	100
7	152050	92	80	90		80	90		90	90		90	90		90	90	100
8	152032		80	90		80	90		90	90		90	90	94	90	90	100
9	152016		80	90		90	90		90	90		90	90	94	90	90	100
10	152051		90	90	99	90	90		90	90		90	90		90	90	100
11	152019	99	90	90		90	90		90	90		90	90		90	90	100
12	152062		80	90		90	90	96	90	90		90	90		90	90	100
13	152048		80	90	94	80	90		90	90		90	90		90	90	100
14	152079		80	90		80	90	92	90	90		90	90		90	90	100
15	152013	96	90	90		90	90		90	90		90	90		90	90	100
16	152070		90	90		90	90		90	90		90	90	98	90	90	100
17	152011		90	90		90	90		90	90	99	90	90		90	90	100
18	152004		80	90	95	80	90		90	90		90	90		90	90	100
19	152039		80	90		80	90	95	90	90		90	90		90	90	100
20	152083		70	90		70	90		80	90		90	90	90	90	90	90
21	152017	96	80	90		90	90		90	90		90	90		90	90	100
22	152046	98	90	90		90	90		90	90		90	90		90	90	100
23	152059		90	90	99	90	90		90	90		90	90		90	90	100
24	152026	99	90	90		90	90		90	90		90	90		90	90	100
25	152052		90	90		90	90	99	90	90		90	90		90	90	100
26	152304		90	90		90	90		90	90	99	90	90		90	90	100
27	152047		90	90		90	90	99	90	90		90	90		90	90	100
28	152003		90	90		90	90		90	90		90	90	99	90	90	100
29	152045	99	90	90		90	90		90	90		90	90		90	90	100
30	152042		90	90		90	90	99	90	90		90	90		90	90	100
31	152065		90	90	99	90	90		90	90		90	90		90	90	100
32	152035		90	90		90	90		90	90	96	90	90		90	90	100
33	152074		90	90		90	90	98	90	90		90	90		90	90	100
34	152041		90	90		90	90		90	90		90	90	96	90	90	100
35	152034		90	90		90	90		90	90		90	90	99	90	90	100
36	152014		90	90	99	90	90		90	90		90	90		90	90	100
37	152058	99	90	90		90	90		90	90		90	90		90	90	100
38	152008		90	90		90	90	99	90	90		90	90		90	90	100
39	152054		90	90		90	90		90	90	95	90	90		90	90	100
40	152002		90	90		90	90		90	90		90	90	99	90	90	100
41	152005	99	90	90		90	90		90	90		90	90		90	90	100
42	152018		90	90		90	90	96	90	90		90	90		90	90	100
43	152301		90	90	99	90	90		90	90		90	90		90	90	100
44	152068		90	90		90	90		90	90	99	90	90		90	90	100
45	152055		80	90	99	90	90		90	90		90	90		90	90	100

46	162910		80	90		80	90		90	90	92	90	90		90	90	90
47	162906		80	90		80	90		90	90		90	90	94	90	90	100
48	162903	90	80	90		80	90		90	90		90	90		90	90	90
49	162904		80	90		80	90		90	90		90	90	94	90	90	90
50	162907		90	90		90	90	96	90	90		90	90		90	90	100
51	152033	92	90	90		90	90		80	90		90	90		90	90	100
52	152084		80	90		80	90		90	90		80	90	96	90	90	100
53	152064		80	100		90	90		90	90	88	90	90		90	90	100
54	152057		80	90		80	90		80	90	94	80	90		90	90	100
55	152102		80	90		80	90	95	80	90		80	90		90	90	100
56	152076		80	90		80	90	92	90	90		90	90		90	90	100
57	152071	86	80	100		90	90		90	90		90	90		90	90	100
58	152303		80	100		80	90	91	80	90		80	90		90	90	100
59	152040		90	90		90	90		80	90	96	90	90		90	90	100
60	152001		90	100		80	90		80	90	82	80	90		90	90	100
61	152049		70	90		80	90		70	90		70	90	95	90	90	90
62	152030		70	90	90	80	90		90	90		90	90		90	90	100
63	152006		90	90	92	90	90		90	90		90	90		90	90	100
64	152103	96	90	90		90	90		90	90		90	90		90	90	100
65	152078		90	90		90	90		990	90		90	90	97	90	90	100
66	152009		100	90		90	90		90	90		90	90	98	90	90	100
67	152015		100	90	95	90	90		90	90		90	90		90	90	100
68	152061	92	90	90		90	90		90	90		90	90		90	90	100
69	152302	94	90	90		90	90		80	90		80	90		90	90	100
70	152053	90	90	90		90	90		80	90		90	90		90	90	100
71	152043		80	90	92	80	90		90	90		80	90		90	90	100
72	152066		80	90		90	90	90	90	90		80	90		90	90	100
73	152029	88	80	90		80	90		80	90		90	90		90	90	100
74	152056	92	80	90		70	90		80	90		90	90		90	90	100
75	152075		90	90		90	90		90	90	96	90	90		90	90	100
76	152080		90	90		90	90		80	90		90	90	98	90	90	100
77	152022		90	90		90	90	98	90	90		90	90		90	90	100
78	152063		90	90	98	90	90		80	90		90	90		90	90	100
79	152036	98	90	90		100	90		80	90		90	90		90	90	100
80	152069		100	90		90	90		100	90	99	90	90		90	90	100
81	152028		100	90		90	90		90	90	97	90	90		90	90	100
82	152031		100	90		90	90		80	90		90	90	88	90	90	100
83	152023		90	90	78	90	90		80	90		90	90		90	90	100
84	152027		90	90	95	80	90		70	90		90	90		90	90	100
85	152073		90	90		70	90	96	90	90		90	90		90	90	100
86	152082	96	70	90		70	90		90	90		90	90		90	90	90
87	152020		90	90		80	90		80	90		90	90	90	90	90	100
88	152101		80	90		90	90		90	90		90	90	92	90	90	100
89	152081		80	90		90	90	92	90	90		90	90		90	90	90
90	152012		90	90	92	80	90		90	90		90	90		90	90	100
91	152067		90	90		90	90		100	90	99	90	90		90	90	100
92	152038	90	90	90		90	90		90	90		90	90		90	90	100
93	152025		100	90		90	90	92	100	90		90	90		90	90	100
94	162911		80	90		90	90		90	90		90	90	90	90	90	80
95	162912		80	90	92	80	90		80	90		90	90		90	90	100

96	162909	90	60	90		70	90		60	90		90	90		90	90	90
97	162908		80	90		80	90	88	80	90		90	90		90	90	100
98	162901		80	90		80	90	84	70	90		90	90		90	90	100
99	162902		80	90	90	90	90		80	90		90	90		90	90	100
100	162905		70	90		70	90		60	90	88	90	90		90	90	100
101	172401		70	90		70	90		70	90		90	90	92	90	90	90

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	23	101	101	20	101	101	21	101	101	17	101	101	20	101	101	101
C	23	100	101	19	101	101	21	99	101	17	101	101	20	101	101	100
%	100	99.01	100	95	100	100	100	98.02	100	100	100	100	100	100	100	99.01
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C407.1	C407.2	C407.3	C407.4	C407.5
Obtained %	98.68	96.47	97.14	97.58	98.02
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C407:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C407.1	3	3	3	3	3	3	3	3
C407.2	3	3	3	3	3	3	3	3
C407.3	3	3	3	3	3	3	3	3
C407.4	3	3	3	3	3	3	3	3
C407.5	3	3	3	3	3	3	3	3
C407								3

Formula for Attainment Calculations:

CO	Attainment = $(0.6*AU + 0.4*IA)$	
	External Assessment (AU)	Internal Assessment (IA)
C407.1	AU Exam	$[06*Model + 0.2*Viva + 0.2*Record]$
C407.2	AU Exam	$[06*Model + 0.2*Viva + 0.2*Record]$
C407.3	AU Exam	$[06*Model + 0.2*Viva + 0.2*Record]$
C407.4	AU Exam	$[06*Model + 0.2*Viva + 0.2*Record]$
C407.5	AU Exam	$[06*Model + 0.2*Viva + 0.2*Record]$

Overall Attainment: $[0.8*DI + 0.2*Survey]$

$$C407 = \frac{C407.1 + C407.2 + C407.3 + C407.4 + C407.5}{5} = 3$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6712 Comprehension Lab: C408

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	152060	80			80			80			80			80			100
2	152077	60			60			60			60			60			100
3	152044	30			30			30			30			30			100
4	152037	30			30			30			30			30			100
5	152305	70			70			70			70			70			100
6	152021	90			90			90			90			90			100
7	152050	10			10			10			10			10			100
8	152032	20			20			20			20			20			100
9	152016	70			70			70			70			70			100
10	152051	50			50			50			50			50			100
11	152019	90			90			90			90			90			100
12	152062	90			90			90			90			90			100
13	152048	90			90			90			90			90			100
14	152079	80			80			80			80			80			100
15	152013	30			30			30			30			30			100
16	152070	100			100			100			100			100			100
17	152011	40			40			40			40			40			100
18	152004	50			50			50			50			50			100
19	152039	60			60			60			60			60			100
20	152083	30			30			30			30			30			100
21	152017	20			20			20			20			20			100
22	152046	60			60			60			60			60			100
23	152059	30			30			30			30			30			100
24	152026	100			100			100			100			100			100
25	152052	70			70			70			70			70			100
26	152304	100			100			100			100			100			100
27	152047	A			A			A			A			A			100
28	152003	50			50			50			50			50			100
29	152045	70			70			70			70			70			100
30	152042	30			30			30			30			30			100
31	152065	80			80			80			80			80			100
32	152035	90			90			90			90			90			100
33	152074	0			0			0			0			0			100
34	152041	90			90			90			90			90			100
35	152034	90			90			90			90			90			100
36	152014	20			20			20			20			20			100
37	152058	70			70			70			70			70			100
38	152008	70			70			70			70			70			100
39	152054	40			40			40			40			40			100
40	152002	40			40			40			40			40			100
41	152005	100			100			100			100			100			100
42	152018	0			0			0			0			0			100
43	152301	100			100			100			100			100			100
44	152068	20			20			20			20			20			100
45	152055	0			0			0			0			0			100

46	162910	A			A			A			A			100
47	162906	100			100			100			100			100
48	162903	100			100			100			100			100
49	162904	100			100			100			100			100
50	162907	80			80			80			80			100
51	152033	58			58			58			58			100
52	152084	98			98			98			98			100
53	152064	94			94			94			94			100
54	152057	94			94			94			94			100
55	152102	94			94			94			94			100
56	152076	96			96			96			96			100
57	152071	56			56			56			56			100
58	152303	92			92			92			92			100
59	152040	80			80			80			80			100
60	152001	98			98			98			98			100
61	152049	96			96			96			96			100
62	152030	86			86			86			86			100
63	152006	94			94			94			94			100
64	152103	85			85			85			85			100
65	152078	68			68			68			68			100
66	152009	80			80			80			80			100
67	152015	90			90			90			90			100
68	152061	92			92			92			92			100
69	152302	96			96			96			96			100
70	152053	92			92			92			92			100
71	152043	66			66			66			66			100
72	152066	88			88			88			88			100
73	152029	64			64			64			64			100
74	152056	90			90			90			90			100
75	152075	92			92			92			92			100
76	152080	82			82			82			82			100
77	152022	80			80			80			80			100
78	152063	90			90			90			90			100
79	152036	90			90			90			90			100
80	152069	96			96			96			96			100
81	152028	94			94			94			94			100
82	152031	90			90			90			90			100
83	152023	92			92			92			92			100
84	152027	94			94			94			94			100
85	152073	90			90			90			90			100
86	152082	92			92			92			92			100
87	152020	96			96			96			96			100
88	152101	98			98			98			98			100
89	152081	98			98			98			98			100
90	152012	96			96			96			96			100
91	152067	92			92			92			92			100
92	152038	94			94			94			94			100
93	152025	96			96			96			96			100
94	162911	90			90			90			90			100
95	162912	94			94			94			94			100

96	162909	90			90			90			90			90			100
97	162908	88			88			88			88			88			100
98	162901	86			86			86			86			86			100
99	162902	88			88			88			88			88			100
100	162905	80			80			80			80			80			100
101	172401	78			78			78			78			78			100

Benchmark: % of Students secured ≥ 80 marks in Model, ≥ 70 in Viva, ≥ 80 in Record $\geq A(9)$ grade in AU L – Level C- Count P – Total Present																	
	CO1			CO2			CO3			CO4			CO5			AU	
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R		
P	64			64			64			64			64			101	
C	64.65			64.65			64.65			64.65			64.65			100	
%	1			1			1			1			1			3	
L	64			64			64			64			64			101	

Attainment Calculation:

Survey:

Survey	C408.1	C408.2	C408.3	C408.4	C408.5
Obtained %	98.22	97.34	97.34	97.34	97.56
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C408:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C408.1	1			1.4	3	2.36	3	2.488
C408.2	1			1.4	3	2.36	3	2.488
C408.3	1			1.4	3	2.36	3	2.488
C408.4	1			1.4	3	2.36	3	2.488
C408.5	1			1.4	3	2.36	3	2.488
C408								2.49

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C408.1	AU Exam	[1*Model]
C408.2	AU Exam	[1*Model]
C408.3	AU Exam	[1*Model]
C408.4	AU Exam	[1*Model]
C408.5	AU Exam	[1*Model]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C408 = \frac{C408.1 + C408.2 + C408.3 + C408.4 + C408.5}{5} = 2.49$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: EE6801 Electrical Energy Generation, Utilization and Conservation: C409

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4		CO5		
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		
1	152060	96	95	96	100	A	90	90	90	90		90		90
2	152077	A	90	88	94	99	90	90	90	90		90		90
3	152044	68	70	52	60	80	90	90	90	90		90		50
4	152037	84	98	96	100	99	90	90	90	90		90		80
5	152305	60	75	80	92	88	90	90	90	90		90		70
6	152021	72	88	72	80	99	90	90	90	90		90		60
7	152050	68	78	60	72	84	90	90	90	90		90		70
8	152032	56	70	76	78	84	90	90	90	90		90		80
9	152016	72	52	60	72	A	90	90	90	90		90		70
10	152051	88	94	92	96	96	90	90	90	90		90		80
11	152019	76	95	88	94	99	90	90	90	90		90		90
12	152062	76	74	88	96	92	90	90	90	90		90		50
13	152048	72	52	44	58	76	90	90	90	90		90		70
14	152079	72	70	60	72	80	90	90	90	90		90		70
15	152013	64	80	68	76	A	90	90	90	90		90		80
16	152070	68	96	80	88	96	90	90	90	90		90		70
17	152011	80	96	90	96	A	90	90	90	90		90		90
18	152004	52	60	48	62	A	90	90	90	90		90		60
19	152039	28	72	48	60	88	90	90	90	90		90		80
20	152083	40	44	0	0	52	90	90	90	90		90		0
21	152017	28	82	A	A	92	90	90	90	90		90		80
22	152046	68	88	76	82	99	90	90	90	90		90		90
23	152059	72	99	96	90	99	90	90	90	90		90		70
24	152026	80	94	A	92	99	90	90	90	90		90		70
25	152052	84	92	88	90	96	90	90	90	90		90		80
26	152304	72	96	80	99	96	90	90	90	90		90		60
27	152047	72	96	40	96	96	90	90	90	90		90		80
28	152003	88	96	96	100	A	90	90	90	90		90		70
29	152045	A	99	64	96	92	90	90	90	90		90		70
30	152042	84	A	A	A	A	90	90	90	90		90		70
31	152065	92	90	88	100	99	90	90	90	90		90		80
32	152035	76	62	60	76	88	90	90	90	90		90		50
33	152074	68	90	80	74	96	90	90	90	90		90		80
34	152041	72	94	76	80	96	90	90	90	90		90		70
35	152034	76	99	96	92	99	90	90	90	90		90		80
36	152014	72	90	96	96	99	90	90	90	90		90		80
37	152058	66	94	88	100	96	90	90	90	90		90		80
38	152008	96	100	96	100	99	90	90	90	90		90		90
39	152054	64	62	84	80	92	90	90	90	90		90		80
40	152002	92	96	96	100	99	90	90	90	90		90		90
41	152005	96	96	96	100	99	90	90	90	90		90		90
42	152018	68	72	76	92	92	90	90	90	90		90		80
43	152301	68	98	76	84	96	90	90	90	90		90		70
44	152068	A	72	64	76	A	90	90	90	90		90		70
45	152055	92	96	96	100	99	90	90	90	90		90		90

46	162910	44	62	52	80	72	90	90	90	90	90	60
47	162906	A	74	28	A	A	90	90	90	90	90	A
48	162903	40	52	20	12	60	90	90	90	90	90	0
49	162904	40	72	40	62	84	90	90	90	90	90	60
50	162907	68	80	88	74	88	90	90	90	90	90	70
51	152033	52	86	88	90	A	90	90	90	90	90	70
52	152084	56	70	66	A	88	90	90	90	90	90	70
53	152064	76	95	88	94	99	90	90	90	90	90	80
54	152057	56	80	64	86	84	90	90	90	90	90	70
55	152102	76	74	52	96	A	90	90	90	90	90	70
56	152076	72	94	96	90	A	90	90	90	90	90	70
57	152071	A	96	88	100	99	90	90	90	90	90	80
58	152303	56	76	36	78	68	90	90	90	90	90	80
59	152040	72	72	80	90	88	90	90	90	90	90	70
60	152001	84	90	76	90	88	90	90	90	90	90	80
61	152049	64	88	88	A	72	90	90	90	90	90	70
62	152030	88	88	96	100	99	90	90	90	90	90	90
63	152006	76	90	88	100	99	90	90	90	90	90	80
64	152103	52	78	52	76	82	90	90	90	90	90	70
65	152078	64	94	88	98	96	90	90	90	90	90	80
66	152009	72	78	96	76	96	90	90	90	90	90	70
67	152015	68	90	96	96	99	90	90	90	90	90	80
68	152061	92	96	96	100	99	90	90	90	90	90	90
69	152302	96	A	A	A	99	90	90	90	90	90	80
70	152053	64	70	40	70	72	90	90	90	90	90	70
71	152043	60	76	60	A	A	90	90	90	90	90	70
72	152066	68	96	92	90	88	90	90	90	90	90	80
73	152029	64	84	92	96	A	90	90	90	90	90	50
74	152056	64	92	60	92	88	90	90	90	90	90	70
75	152075	84	94	96	A	99	90	90	90	90	90	70
76	152080	80	96	96	86	99	90	90	90	90	90	80
77	152022	76	82	84	88	99	90	90	90	90	90	80
78	152063	84	86	88	84	A	90	90	90	90	90	80
79	152036	68	74	A	80	76	90	90	90	90	90	70
80	152069	80	96	92	A	99	90	90	90	90	90	90
81	152028	68	90	80	90	99	90	90	90	90	90	80
82	152031	76	90	72	92	A	90	90	90	90	90	70
83	152023	52	80	88	84	84	90	90	90	90	90	90
84	152027	80	88	96	90	A	90	90	90	90	90	80
85	152073	60	78	32	62	56	90	90	90	90	90	60
86	152082	52	78	72	78	72	90	90	90	90	90	70
87	152020	76	96	96	100	A	90	90	90	90	90	70
88	152101	44	80	52	A	72	90	90	90	90	90	70
89	152081	44	80	16	60	64	90	90	90	90	90	70
90	152012	72	90	96	96	99	90	90	90	90	90	70
91	152067	88	96	96	100	99	90	90	90	90	90	80
92	152038	72	A	A	A	96	90	90	90	90	90	80
93	152025	60	70	88	80	A	90	90	90	90	90	70
94	162911	52	76	52	60	68	90	90	90	90	90	60
95	162912	24	70	12	70	72	90	90	90	90	90	70

96	162909	52	82	64	78	68	90	90	90	90	90	60
97	162908	36	80	64	90	A	90	90	90	90	90	70
98	162901	44	60	36	80	56	90	90	90	90	90	70
99	162902	40	80	44	76	A	90	90	90	90	90	60
100	162905	24	70	72	62	A	90	90	90	90	90	50
101	172401	24	62	60	56	56	90	90	90	90	90	60

Benchmark: % of Students secured ≥60 marks in CITs, ≥80 in assignment, ≥65 in Seminar/Quiz, Tutorial and ≥C (7) grade in AU L – Level, C-Count													
	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4		CO5		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		
C	71	94	74	86	75	101	101	101	101		101		83
%	73.96	95.92	77.89	95.56	94.94	100	100	100	100		100		83
L	2	3	2	3	3	3	3	3	3		3		3

Attainment Calculation:

Survey:

Survey	C409.1	C409.2	C409.3	C409.4	C409.5
Obtained %	97.93	97.68	98.16	96.53	96.3
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C409:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C409.1	2	3	-	-		2.3	3	2.72	3	2.78
C409.2	3	3	-	-		3	3	3	3	3
C409.3	2	3	-	-		2.3	3	2.72	3	2.78
C409.4	3	-	3	-		3	3	3	3	3
C409.5	3	-	-	3		3	3	3	3	3
C409										2.91

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C409.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C409.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C409.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C409.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C409.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C409 = \frac{C409.1 + C409.2 + C409.3 + C409.4 + C409.5}{5} = 2.91$$

KLNCE/B.E - EEE – 2015-2019 Batch –

Course: EE6009 Power Electronics for Renewable Energy Systems: C410E4

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	
1	152060	96	88	80	92	A	100	100	100	100	100	100	80
2	152077	76	76	50	88	92	100	100	100	100	100	100	70
3	152044	60	50	40	68	76	100	100	100	100	100	100	80
4	152037	92	92	64	78	92	100	100	100	100	100	100	80
5	152305	40	50	28	74	68	100	100	100	100	100	100	70
6	152021	76	50	36	62	64	100	100	100	100	100	100	80
7	152050	52	50	56	72	80	100	100	100	100	100	100	70
8	152032	32	50	32	74	64	100	100	100	100	100	100	80
9	152016	36	60	36	A	68	100	100	100	100	100	100	70
10	152051	4	78	60	92	96	100	100	100	100	100	100	80
11	152019	80	72	84	82	A	100	100	100	100	100	100	80
12	152062	60	60	36	66	88	100	100	100	100	100	100	80
13	152048	52	50	28	40	12	100	100	100	100	100	100	70
14	152079	60	52	50	56	92	100	100	100	100	100	100	70
15	152013	52	70	36	A	72	100	100	100	100	100	100	80
16	152070	60	64	A	A	68	100	100	100	100	100	100	70
17	152011	68	64	A	74	92	100	100	100	100	100	100	70
18	152004	52	10	0	26	60	100	100	100	100	100	100	50
19	152039	36	52	40	56	56	100	100	100	100	100	100	50
20	152083	40	26	20	10	60	100	100	100	100	100	100	0
21	152017	44	52	4	26	44	100	100	100	100	100	100	80
22	152046	72	60	28	84	60	100	100	100	100	100	100	80
23	152059	76	66	A	A	96	100	100	100	100	100	100	80
24	152026	60	74	A	78	72	100	100	100	100	100	100	80
25	152052	68	88	60	68	88	100	100	100	100	100	100	80
26	152304	72	82	A	92	92	100	100	100	100	100	100	70
27	152047	56	72	A	82	88	100	100	100	100	100	100	70
28	152003	68	92	40	94	A	100	100	100	100	100	100	90
29	152045	80	74	A	80	92	100	100	100	100	100	100	60
30	152042	68	A	A	A	A	100	100	100	100	100	100	70
31	152065	76	82	56	90	88	100	100	100	100	100	100	80
32	152035	56	64	50	52	72	100	100	100	100	100	100	60
33	152074	48	76	60	80	72	100	100	100	100	100	100	80
34	152041	52	66	16	60	68	100	100	100	100	100	100	70
35	152034	84	76	A	92	92	100	100	100	100	100	100	80
36	152014	76	76	A	74	96	100	100	100	100	100	100	90
37	152058	80	74	32	86	100	100	100	100	100	100	100	80
38	152008	84	74	56	92	92	100	100	100	100	100	100	90
39	152054	A	14	32	70	28	100	100	100	100	100	100	80
40	152002	84	80	72	82	96	100	100	100	100	100	100	90
41	152005	64	A	72	68	88	100	100	100	100	100	100	80
42	152018	48	54	40	A	60	100	100	100	100	100	100	60
43	152301	60	62	52	78	72	100	100	100	100	100	100	80
44	152068	36	56	40	50	32	100	100	100	100	100	100	80
45	152055	76	60	72	82	92	100	100	100	100	100	100	80

46	162910	52	28	0	66	A	100	100	100	100	100	100	60
47	162906	A	28	20	40	50	100	100	100	100	100	100	A
48	162903	32	6	8	10	8	100	100	100	100	100	100	0
49	162904	48	24	12	40	A	100	100	100	100	100	100	60
50	162907	72	50	52	62	A	100	100	100	100	100	100	70
51	152033	76	90	52	90	52	90	90	100	100	100	100	60
52	152084	72	90	80	75	92	90	80	100	100	100	100	70
53	152064	60	90	72	90	96	100	90	90	100	100	100	70
54	152057	56	75	24	A	56	80	80	80	100	100	100	70
55	152102	56	75	56	90	A	70	100	90	100	100	100	80
56	152076	92	75	64	92	A	90	100	90	100	100	100	80
57	152071	96	98	A	98	100	90	100	80	100	100	100	80
58	152303	84	82	44	90	84	100	80	90	100	100	100	80
59	152040	76	75	76	90	84	100	80	90	100	100	100	70
60	152001	76	90	64	96	88	90	90	90	100	100	100	70
61	152049	92	75	80	36	A	80	75	80	90	90	85	70
62	152030	80	92	88	90	100	70	100	90	100	100	100	70
63	152006	64	100	48	90	92	80	100	100	100	100	100	70
64	152103	80	100	80	A	96	90	90	100	100	100	100	70
85	152078	44	100	92	96	100	90	100	100	100	100	100	80
66	152009	72	75	36	90	96	90	90	90	100	100	100	70
67	152015	76	90	80	96	100	100	100	80	100	100	100	80
68	152061	88	90	A	96	96	100	100	80	100	100	100	70
69	152302	84	A	A	A	96	90	85	90	100	100	100	70
70	152053	72	75	40	68	64	90	A	80	100	100	100	50
71	152043	76	75	76	42	76	90	80	90	90	90	85	70
72	152066	80	90	72	92	68	80	80	100	100	100	100	80
73	152029	64	75	52	88	80	90	90	90	100	100	100	80
74	152056	76	90	60	90	68	100	90	90	100	100	100	80
75	152075	64	100	A	88	96	90	100	100	100	100	100	80
76	152080	80	100	84	82	92	90	100	100	100	100	100	80
77	152022	72	90	36	90	A	80	90	80	100	100	100	80
78	152063	72	75	56	90	80	80	90	80	100	100	100	70
79	152036	76	70	16	80	56	90	80	70	100	100	100	70
80	152069	A	90	68	90	92	90	80	80	100	100	100	80
81	152028	A	90	A	90	96	100	80	90	100	100	100	70
82	152031	76	75	76	A	A	90	70	80	100	100	100	70
83	152023	52	75	52	86	80	90	100	90	100	100	100	70
84	152027	68	75	44	90	A	90	100	90	100	100	100	60
85	152073	52	70	52	32	A	80	90	90	100	100	100	60
86	152082	72	68	56	90	88	90	100	100	100	100	100	70
87	152020	72	100	96	92	A	90	100	100	100	100	100	70
88	152101	60	90	52	90	92	100	80	100	100	100	100	70
89	152081	60	42	36	28	A	100	80	90	100	100	100	70
90	152012	92	A	56	96	96	90	90	90	100	100	100	80
91	152067	88	100	100	100	96	90	90	100	100	100	100	90
92	152038	88	A	A	100	92	90	80	80	100	100	100	80
93	152025	72	65	76	A	A	90	90	80	100	100	100	70
94	162911	64	48	44	70	64	80	90	90	90	90	85	60
95	162912	56	63	28	A	92	90	90	80	90	90	90	70

96	162909	52	100	76	70	76	90	100	80	90	90	85		60
97	162908	40	80	48	68	88	80	80	90	90	90	90		70
98	162901	60	90	68	80	80	80	80	100	90	90	85		70
99	162902	52	80	32	86	76	70	100	90	90	90	90		60
100	162905	48	78	24	72	72	80	90	90	90	90	90		50
101	172401	44	40	44	40	68	70	90	80	90	90	90		60

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C(7)$ grade in AU L – Level, C-Count													
	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO3	CO4	CO5		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1		
C	66	74	30	73	74	97	98	100	101	101	101		82
%	68.04	77.08	35.29	82.02	88.1	96.04	98	99.01	100	100	100		82
L	1	2	0	3	3	3	3	3	3	3	3		3

Attainment Calculation:

Survey:

Survey	C410E4.1	C410E4.2	C410E4.3	C410E4.4	C410E4.5
Obtained %	97.46	97.01	98.37	97.22	96.98
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C410E4:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C410E4.1	1	-	-	-		1	3	2.2	3	2.36
C410E4.2	2	3	-	-		2.3	3	2.72	3	2.78
C410E4.3	0	3	3	-		0.9	3	2.16	3	2.33
C410E4.4	3	3	3	-		3	3	3	3	3
C410E4.5	3	-	-	3		3	3	3	3	3
C410E4										2.69

Formula for Attainment Calculations:

CO	Attainment = $(0.6*AU + 0.4*IA)$	
	External Assessment (AU)	Internal Assessment (IA)
C410E4.1	AU Exam	[1*Internal Test]
C410E4.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C410E4.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C410E4.4	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C410E4.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

Overall Attainment: $[0.8*DI + 0.2*Survey]$

$$C410E4 = \frac{C410E4.1 + C410E4.2 + C410E4.3 + C410E4.4 + C410E4.5}{5} = 2.69$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: GE6757 Total Quality Management: C411E5

Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	CIT					Assignment			Seminar		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	
1	152060	100	100	100	100	98	100	100	100	100	100	80
2	152077	A	A	80	100	92	100	100	100	100	100	70
3	152044	60	80	50	63	80	100	100	100	100	100	70
4	152037	100	97.5	100	98	96	100	100	100	100	100	70
5	152305	100	82.5	A	A	72	100	100	100	100	100	60
6	152021	98	100	90	83	86	100	100	100	100	100	70
7	152050	70	85	80	98	82	100	100	100	100	100	70
8	152032	60	72.5	A	A	A	100	100	100	100	100	70
9	152016	80	70	A	A	70	100	100	100	100	100	60
10	152051	94	95	100	96	100	100	100	100	100	100	50
11	152019	100	97.5	90	100	96	100	100	100	100	100	90
12	152062	70	97.5	70	95	90	100	100	100	100	100	50
13	152048	86	87.5	0	35	96	100	100	100	100	100	60
14	152079	80	87.5	70	68	86	100	100	100	100	100	70
15	152013	90	77.5	100	75	92	100	100	100	100	100	60
16	152070	70	82.5	A	A	92	100	100	100	100	100	80
17	152011	60	97.5	70	93	A	100	100	100	100	100	80
18	152004	20	12.5	A	A	26	100	100	100	100	100	50
19	152039	74	67.5	70	A	A	100	100	100	100	100	70
20	152083	30	37.5	0	28	26	100	100	100	100	100	A
21	152017	90	70	90	93	90	100	100	100	100	100	70
22	152046	80	95	10	93	22	100	100	100	100	100	70
23	152059	100	100	100	100	72	100	100	100	100	100	70
24	152026	100	92.5	100	100	72	100	100	100	100	100	70
25	152052	90	97.5	100	88	90	100	100	100	100	100	80
26	152304	90	74	90	98	96	100	100	100	100	100	80
27	152047	80	95	90	92	90	100	100	100	100	100	80
28	152003	90	100	100	98	94	100	100	100	100	100	90
29	152045	100	97.5	70	100	96	100	100	100	100	100	90
30	152042	A	A	A	A	A	100	100	100	100	100	70
31	152065	90	97.5	90	95	94	100	100	100	100	100	90
32	152035	80	80	70	83	86	100	100	100	100	100	50
33	152074	100	100	70	90	96	100	100	100	100	100	80
34	152041	80	100	40	100	88	100	100	100	100	100	70
35	152034	100	97.5	90	100	96	100	100	100	100	100	80
36	152014	90	100	90	90	92	100	100	100	100	100	80
37	152058	100	100	60	98	96	100	100	100	100	100	70
38	152008	100	97.5	90	100	96	100	100	100	100	100	70
39	152054	60	72.5	100	85	88	100	100	100	100	100	70
40	152002	90	80	80	100	96	100	100	100	100	100	80
41	152005	90	100	90	93	92	100	100	100	100	100	80
42	152018	50	85	40	65	80	100	100	100	100	100	70
43	152301	100	100	60	85	96	100	100	100	100	100	70
44	152068	0	92.5	60	78	74	100	100	100	100	100	70
45	152055	90	100	100	100	96	100	100	100	100	100	70
46	162910	30	32.5	30	40	A	100	100	100	100	100	50

47.	162906	80	67.5	A	A	A	100	100	100	100	100	A
48.	162903	20	15	0	8	16	100	100	100	100	100	0
49.	162904	72	67.5	A	A	66	100	100	100	100	100	50
50.	162907	90	82.5	20	90	A	100	100	100	100	100	50
1.	152033	64	88	92	86	86	95	93	94	94	97	50
2.	152084	56	80	84	A	A	93	94	95	96	93	70
3.	152064	92	86	88	94	94	92	93	94	93	94	80
4.	152057	60	76	84	84	84	95	92	93	94	92	70
5.	152102	80	82	88	A	A	95	91	92	96	91	60
6.	152076	92	92	88	86	86	94	90	91	93	90	70
7.	152071	A	96	96	96	96	92	94	90	92	96	80
8.	152303	76	90	88	94	94	90	93	94	91	94	70
9.	152040	72	88	92	80	80	95	92	93	96	93	60
10.	152001	80	92	80	78	78	92	91	92	94	92	80
11.	152049	A	64	88	66	66	93	90	91	93	98	80
12.	152030	88	88	92	94	94	95	94	94	92	96	80
13.	152006	84	70	76	94	94	94	94	93	91	92	70
14.	152103	44	96	44	A	A	92	93	92	90	90	80
15.	152078	92	92	92	96	96	91	92	91	94	94	70
16.	152009	84	80	92	94	94	95	91	90	96	94	70
17.	152015	84	90	88	94	94	95	92	92	97	98	70
18.	152061	88	92	88	92	92	93	A	93	98	93	70
19.	152302	92	A	A	A	A	92	94	96	93	98	70
20.	152053	64	80	56	94	94	91	90	94	92	90	70
21.	152043	64	64	64	94	94	90	91	94	91	92	60
22.	152066	72	92	88	64	64	90	91	94	90	96	80
23.	152029	52	80	80	92	40	92	92	94	97	92	50
24.	152056	80	88	64	94	40	94	94	98	96	98	70
25.	152075	80	88	A	A	88	96	91	93	92	98	80
26.	152080	88	88	92	94	A	92	92	93	95	98	80
27.	152022	A	92	92	92	84	90	93	92	94	94	70
28.	152063	72	72	80	94	72	95	94	91	92	98	80
29.	152036	76	64	72	92	48	94	93	96	91	98	70
30.	152069	84	88	92	94	88	92	91	94	97	96	100
31.	152028	A	80	88	94	80	91	92	93	98	89	80
32.	152031	72	66	88	82	48	93	91	92	99	89	90
33.	152023	52	88	64	89	52	94	94	91	97	94	90
34.	152027	72	88	80	74	52	95	93	92	96	96	80
35.	152073	60	72	84	94	76	93	94	93	95	92	50
36.	152082	52	80	76	92	88	92	92	94	96	96	70
37.	152020	84	92	88	94	88	91	95	95	97	94	60
38.	152101	72	94	76	A	84	90	94	96	92	89	70
39.	152081	48	64	64	78	48	91	93	94	96	89	0
40.	152012	88	92	88	94	88	92	92	93	96	92	80
41.	152067	84	88	92	94	92	91	91	92	98	99	80
42.	152038	76	62	A	A	A	94	94	93	93	98	70
43.	152025	56	78	64	76	20	93	93	91	97	94	70
44.	162911	64	52	80	86	40	92	92	94	98	92	60
45.	162912	52	A	44	A	48	92	94	94	94	89	50
46.	162909	88	92	44	92	48	94	93	93	92	89	70

47.	162908	48	90	A	82	40	92	92	92	96	96	70
48.	162901	60	82	84	A	84	91	91	91	98	97	70
49.	162902	54	74	88	94	28	92	94	94	97	97	70
50.	162905	56	88	84	90	84	93	92	92	98	91	60
51.	172401	36	62	80	20	12	94	91	93	98	91	50

Benchmark: % of Students secured ≥ 60 marks in CITs, ≥ 80 in assignment, ≥ 65 in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU L – Level, C-Count											
	CIT					Assignments			Seminar		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	
C	77	92	76	78	70	101	100	101	101	101	75
%	81.05	94.85	85.39	93.98	79.55	100	100	100	100	100	75.76
L	3	3	3	3	2	3	3	3	3	3	2

Attainment Calculation:

Survey:

Survey	C411E5.1	C411E5.2	C411E5.3	C411E5.4	C411E5.5
Obtained %	98.15	99.07	97.26	97.7	96.78
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C411E45:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C411E5.1	3	3	-			3	2	2.4	3	2.52
C411E5.2	3	3	-			3	2	2.4	3	2.52
C411E5.3	3	3	-			3	2	2.4	3	2.52
C411E5.4	3	-	3			3	2	2.4	3	2.52
C411E5.5	2	-	3			2.2	2	2.08	3	2.26
C411E5										2.47

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C411E5.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C411E5.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C411E5.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C411E5.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C411E5.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C411E5 = \frac{C411E5.1 + C411E5.2 + C411E5.3 + C411E5.4 + C411E5.5}{5} = 2.47$$

KLNCE/B.E - EEE – 2015-2019 Batch – Course: C412 Project Work: C412
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks

S.No.	Roll.No.	Review					AU
		CO1	CO2	CO3	CO4	CO5	
		R	R	R	R	R	
1	152060	97	97	97	97	97	100
2	152077	98	98	98	98	98	100
3	152044	98	98	98	98	98	100
4	152037	98	97	97	97	97	100
5	152305	88	88	88	88	88	100
6	152021	88	88	92	90	98	100
7	152050	96	93	92	96	96	100
8	152032	90	95	99	98	98	100
9	152016	93	93	93	93	93	100
10	152051	92	93	93	93	93	100
11	152019	98	98	98	98	98	100
12	152062	96	96	97	96	97	100
13	152048	90	92	91	91	92	100
14	152079	92	92	92	92	92	100
15	152013	92	92	92	92	92	100
16	152070	88	88	88	88	88	100
17	152011	88	88	92	90	98	100
18	152004	96	96	96	97	97	100
19	152039	96	96	96	95	95	100
20	152083	97	97	96	96	95	100
21	152017	98	98	98	98	97	100
22	152046	98	97	98	98	96	100
23	152059	94	94	94	94	94	100
24	152026	92	94	94	94	94	100
25	152052	92	94	94	94	94	100
26	152304	96	96	96	95	94	100
27	152047	94	94	94	94	94	100
28	152003	92	91	91	91	92	100
29	152045	98	98	98	98	96	100
30	152042	96	97	96	95	94	100
31	152065	97	98	98	97	97	100
32	152035	95	95	95	95	94	100
33	152074	85	85	85	85	85	100
34	152041	98	98	98	98	99	100
35	152034	96	96	96	96	97	100
36	152014	96	96	96	96	96	100
37	152058	96	97	96	96	97	100
38	152008	99	99	99	98	99	100
39	152054	99	99	99	98	98	100
40	152002	96	96	96	96	96	100
41	152005	96	96	96	96	96	100
42	152018	99	99	99	98	99	100
43	152301	98	97	97	97	98	100
44	152068	96	97	96	96	96	100
45	152055	99	99	98	98	99	100
46	162910	99	98	98	98	99	90

47	162906	96	96	96	96	96	90
48	162903	97	97	98	97	98	100
49	162904	96	96	97	96	96	100
50	162907	97	97	98	97	98	100
51	152033	97	97	98	98	98	100
52	152084	96	96	97	96	96	100
53	152064	96	96	97	96	96	100
54	152057	96	96	96	97	96	100
55	152102	97	97	97	98	97	100
56	152076	99	98	99	99	98	100
57	152071	98	98	99	99	98	100
58	152303	99	98	99	99	99	100
59	152040	98	99	99	99	99	100
60	152001	98	98	99	99	99	100
61	152049	96	96	96	97	96	100
62	152030	96	97	97	96	97	100
63	152006	77	77	77	77	77	100
64	152103	98	98	98	99	99	100
65	152078	98	98	98	99	99	100
66	152009	98	98	98	98	98	100
67	152015	98	99	98	98	98	100
68	152061	99	99	98	99	98	100
69	152302	98	98	97	98	98	100
70	152053	98	99	99	98	98	100
71	152043	98	99	99	98	98	100
72	152066	78	79	77	74	70	100
73	152029	99	99	99	98	98	100
74	152056	98	99	99	98	98	100
75	152075	98	99	99	98	98	100
76	152080	85	85	85	85	85	100
77	152022	99	99	99	98	98	100
78	152063	85	85	85	85	85	100
79	152036	99	99	99	98	98	100
80	152069	98	99	99	98	98	100
81	152028	98	98	98	98	98	100
82	152031	98	99	98	98	98	100
83	152023	99	99	98	98	98	100
84	152027	98	98	98	98	98	100
85	152073	98	99	98	98	98	100
86	152082	98	98	98	97	98	100
87	152020	98	98	98	98	99	100
88	152101	98	98	98	98	98	100
89	152081	99	99	99	98	98	100
90	152012	98	98	98	98	98	100
91	152067	99	99	99	98	99	100
92	152038	99	99	99	98	98	100
93	152025	90	88	89	86	87	100
94	162901	92	93	92	92	92	100
95	162902	92	93	92	92	92	100
96	162908	96	95	96	95	95	100

97	162911	92	92	92	92	92	100
98	162909	89	92	90	88	90	100
99	162905	92	93	92	92	93	100
100	162912	93	93	92	93	92	100
101	172401	93	93	92	93	92	100

Benchmark: % of Students secured ≥ 80 marks in Reviews, ≥ 80 and $\geq A$ (9 grade in AU L – Level, C-Count						
	Review					AU
	CO1	CO2	CO3	CO4	CO5	
	R	R	R	R	R	
C	99	99	99	99	99	101
%	98.02	98.02	98.02	98.02	98.02	100
L	3	3	3	3	3	3

Attainment Calculation:

Survey:

Survey	C412.1	C412.2	C412.3	C412.4	C412.5
Obtained %	98.39	97.7	97.7	97.72	97
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage ≥ 80 ; 3 If Obtained percentage ≥ 70 ; 2 If Obtained percentage ≥ 60 ; 1; Otherwise = 0					

Course Outcome Attainment – C412:

Course	Internal Test	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C412.1	3	3	3	3	3	3
C412.2	3	3	3	3	3	3
C412.3	3	3	3	3	3	3
C412.4	3	3	3	3	3	3
C412.5	3	3	3	3	3	3
C412						3

Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C412.1	AU Exam	[1*Review]
C412.2	AU Exam	[1*Review]
C412.3	AU Exam	[1*Review]
C412.4	AU Exam	[1*Review]
C412.5	AU Exam	[1*Review]

Overall Attainment: [0.8*DI + 0.2*Survey]

$$C412 = \frac{C412.1 + C412.2 + C412.3 + C412.4 + C412.5}{5} = 3$$



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