K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM- 630612
Sivagangai District
(An Autonomous Institution, Affiliated to Anna University, Chennai)

Ref: KLNCE/Autonomous/Academic Council /2024   02.03.2024

Eighth Academic Council meeting held on 2nd March 2024

Members Present   **Date: 02.03.2024, Time:10:30 AM**

S. No.	Name of the member	Category
1.	**Dr.A.V.Ramprasad**, Principal	Chairman
2.	**Dr.B.Thanasekhar** Professor,Department of Computer Technology MIT Campus, Anna University, Chennai 600044	Anna University Nominee
3.	**Dr.B.Manimegalai** Professor,Department of ECE Thiagarajar College of Engineering Madurai-625015	Anna University Nominee
4.	**Dr.P.Subha Karuvelam** Professor,Department of EEE Government College of Engineering Tirunelveli -627007	Anna University Nominee
5.	**Dr.Ramanathan Muthuganapathy** Professor,Department of Engineering design, Indian Institute of Technology Madras(IITM) Chennai – 600 036	Academician
6.	**Dr.Sriram Kumar** Professor,Department of Electronics and Communication Engineering, National Institute of Technology, Trichy – 620015	Academician
7.	**Dr. B.Karthikeyan** Project Director,HRSAT Constellation, Scientist/Engineer- SG UR Rao Satellite Centre, Department of Space, Government of India, Bangalore – 560017	Research Organization
8.	**Mr. T.Venkateswaran** Principal Architect,Schneider Electric Private Limited,Tower- C,63/3B,BGRT, Whitefield Ashram Road, Hobli, Bidarahalli, Gorvigere Village, Bengaluru, Karnataka – 560067	Industrialist

9.	**Dr.P.Udhaya Kumar**	Chairman BoS/ Department of Mechanical Engineering
10.	**Dr.S.M.Kannan**	Chairman BoS /Department of Electrical and Electronics Engineering
11.	**Dr.V.Kejalakshmi**	Chairman BoS /Department of Electronics and Communication Engineering
12.	**Dr.S.Miruna Joe Amali**	HoD /Department of Computer Science and Engineering
13.	**Dr.P.Ganesh Kumar**	Chairman BoS/ Computer Science and Engineering and Information Technology/ HoD- IT
14.	**Dr.R.M.Satheesh Kumar**	HoD/Department of Automobile Engineering
15.	**Dr.S.Nagammai**	Member Secretary & Head Academics and HoD/Department of Electronics and Instrumentation Engineering
16.	**Dr.S.Suresh Raja**	HoD/ Department of Artificial Intelligence & Data Science
17.	**Dr.J.S.Kanchana**	HoD / Department of Computer Science and Engineering (Cyber Security)
18.	**Dr.J.K.Subashini**	Chairman BoS/Science & Humanities HoD/ Mathematics
19.	**Dr.T.Jothimurugan**	Chairman BoS/ Department of Master of Business Administration
20.	**Dr.M.R.Ilango**	Director/Department of Master of Computer Applications
21.	**Dr.P.R. Vijayalakshmi**	Controller of Examinations
22.	**Prof.N.V.Karthikeyan**	HOD/Physics
23.	**Prof. O. D. Shakila**	HOD/Chemistry
24.	**Dr.A.Raviekkumar**	HOD/English
25.	**Dr.K.Gnanambal**	Professor /EEE-Faculty Nominee
26.	**Mr. R. Somaskandan**	ASP/MCA -Faculty Nominee
27.	**Dr. N.R. Ramanujam**	ASP/Physics -Faculty Nominee
28.	**Mrs.S.Venkatalakshmi**	AP / CSE -Faculty Nominee

Minutes of 8th Academic Council Meeting

The Chairman, Academic Council, welcomed the members of the Academic Council. The chairman reviewed regulation R2020 and amendments made. He briefed the Agenda of the Eighth Academic Council meeting and the minutes of the Standing Committee meeting held on 23rd February 2024, based on the inputs from all Board of Studies (BoS) meetings held during December 2023 to February 2024.

ACM 08.01: Business brought forwarded by the Chairman, Academic Council:

i. To consider and approve the Regulation R2024 for all B.E/B.Tech Degree Program for the students admitted from the Academic Year 2024-2025

ii. To approve the online courses for credit transfer for the even semester of the Academic Year 2023-2024 and to approve the additional value added courses

iii. To consider and approve the changes as Amendments IV in UG Regulations 2020. (Annexure I)

iv. To consider and approve the R2024 - Question Paper pattern for End Semester Examinations.

The following are the suggestions given by Nominees and Experts:

- Academic Schedule may be planned in such way that the student can undergo industrial training/internship during summer/winter semester holidays.

- All the students shall be given the opportunity to register for the research publication course irrespective of CGPA earned.

- If the paper is accepted /published after completion of seventh semester and before the publication of eighth semester results, the details of publication shall be printed in the grade sheet.

- In project work, the weightage of marks for continuous assessment through review marks may be revised as follows:

  Review I: 10 marks, Review II : 20 marks and Review III : 30 marks

  Chairman replied that the above suggestions will be incorporated in the regulation R2024.

Resolved to approve R2024 regulations to be followed from the Academic Year 2024-2025 for all B.E/B.Tech Degree programmes

Resolved to approve the amendments IV in R2020 as per annexure I, List of online courses for credit transfer and list of Value Added Courses

ACM 08.02: Business brought forwarded by the Board of Studies:

ACM 08.02.01 DME: Department of Mechanical Engineering

To consider and approve R2024 - Curriculum of I to VIII semesters and Syllabus of I & II semesters of B.E Mechanical Engineering Degree Program as passed in the BOS meeting held on 8.02.2024.

Resolved to approve the above for B.E Mechanical Engineering Degree Program

ACM 08.02.02 DEE : Department of Electrical and Electronics Engineering

i. To consider and approve R2024 - Curriculum of I to VIII semesters and Syllabus of I & II semesters of B.E Electrical and Electronics Engineering Degree Program (R2024) as passed in the BOS meeting held on 29.12.2023.

ii. To consider and approve R2024 - Curriculum and Syllabus of I to IV semesters of M.E Power Systems Engineering Degree Program

as passed in the BOS meeting held on 29.12.2023.

Resolved to approve the above for B.E. Electrical and Electronics Engineering Degree Program

ACM 08.02.03 DEC : Department of Electronics and Communication Engineering

i. To consider and approve R2024 - Curriculum of I to VIII semesters and Syllabus of I & II semesters of B.E Electronics and Communication Engineering Degree Program

ii. To consider and approve R2024 - Curriculum and Syllabus of I to IV semesters of M.E Communication Systems Degree Program

as passed in the BOS meeting held on 11.1.2024.

Resolved to approve the above for B.E. Electronics and Communication Engineering Degree Program

ACM 08.02.04 DCS: Department of CSE/IT/AIDS/CSE(CS)/CSE(IoT)

To consider and approve

i. R2024 – Curriculum of I to VIII semesters and Syllabus of I & II semesters of B.E Computer Science and Engineering Degree Program.

ii. R2024 – Curriculum of I to VIII semesters and Syllabus of I & II semesters of B.Tech Information Technology Degree Program.

iii. R2024 – Curriculum of I to VIII semesters and Syllabus of I & II semesters of B.Tech Artificial Intelligence and Data Science Degree Program.

iv. R2024 – Curriculum of I to VIII semesters and Syllabus of I & II semesters of B.E Computer Science and Engineering (IoT) Degree Program.

v. R2024 – Curriculum of I to VIII semesters and Syllabus of I & II semesters of B.E Computer Science and Engineering (CS) Degree Program.

vi. R2020 – Curriculum and Syllabus of III to VIII semester of B.E Computer Science and Engineering (IoT) Degree Program

vii.   R2020 – Syllabus of VII & VIII semester of B.E Computer Science and Engineering (Cyber Security) Degree Program

viii.   R2024 - Curriculum and Syllabus of I to IV semesters of M.E Computer Science and Engineering (With Specialization in Networks) Degree Program

as passed in the BOS meeting held on 17.02.2024.

Resolved to approve all above for B.E CSE, B.Tech IT, B.Tech AIDS, B.E CSE (CS) B.E CSE (IoT) Degree Programmes

ACM 08.02.05. DMBA: Department of Management Studies

i.   To consider and approve the Regulation R2024 for Master of Business Administration Degree Program for the students admitted from the Academic Year 2024-2025

i.   To consider and approve R2024 - Curriculum and Syllabus of I to IV semesters of Master of Business Administration Degree Program as passed in the BOS meeting held on 24.1.2024.

    Resolved to approve all the above for Master of Business Administration Degree Program

ACM 08.02.06. DMCA: Department of Master of Computer Applications

ii.   To consider and approve the Regulation R2024 for MCA/ME Degree Programs for the students admitted from the Academic Year 2024-2025

iii.   To consider and approve R2024 - Curriculum and Syllabus of I to IV semesters of Master of Computer Applications Degree Program (R2024) as passed in the BOS meeting held on 3.2.2024.

iv.   To consider and approve the bridge courses which are to be conducted for the students admitted in first year from Non Computer Science Background. The bridge courses shall be conducted in first two semesters itself. Three courses shall be conducted in first semester and remaining three courses in second semester as suggested by BoS members.

    Resolved to approve all the above for Master of Computer Applications Degree Program

ACM 08.02.07. DS&H: Department of Science and Humanities

To consider and approve R2024 – Syllabus of first and Second semester Courses relevant to Science and Humanities for all UG and PG programs as passed in the BOS meeting held on 7.02.2024.

Resolved to approve the above syllabus

Dr.R.M.Satheesh Kumar,HoD/Au.Engg proposed vote of thanks and the meeting came to an end at 2.30 pm.

Signature of the Chairman

Cc to ACM members, Director, Academic Courses.
Cc to CoE, BoSchairman, Cc to file,

ANNEXURE-I

KLNCE - Regulations 2020

Amendment - IV

Existing (Applicable for the students admitted from the academic year 2021-2022 onwards)	Revised (Applicable for the students admitted from the academic year 2021-2022 onwards)
4.3 Mandatory Three Week Induction Programme The students are expected to undergo a mandatory three week induction programme comprising of physical activity, creative arts, universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department/branch & innovations immediately after admission.	**4.3 Mandatory Three Week Induction Programme** The students are expected to undergo a mandatory three week induction programme comprising of physical activity, creative arts, universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department/branch & innovations immediately after admission in first year. The completion of the Induction Programme shall be printed in the Grade Sheet as "COMPLETED"
4.9 ONLINE COURSES 4.9.1 Students may be permitted to undergo online courses (which are provided with certificates) with the approval of Head of the Department. 4.9.2 Students may be permitted to credit online courses instead of two elective courses subject to a maximum of three credits for each course. The approved list of online courses shall be provided by standing committee of Academic Council from time to time. Head of the Department recommends the list of line courses after ensuring that the student has not studied such course and would not repeat it again as Professional Core/Professional Elective/Open Elective Course. The details of online courses taken by the students should be sent to the COE through HOD within one month from the commencement of the classes. Copies of the online course certificates should be submitted to the Head of the Department.	**4.9 ONLINE COURSES** 4.9.1 Students may be permitted to undergo online courses (which are provided with certificates) with the approval of Head of the Department. 4.9.2 Students are also permitted to undergo skill rack or MATLAB self paced courses and can earn certifications. 4.9.3 Students may be permitted to credit online courses instead of three elective courses subject to a maximum of three credits for each course. The approved list of online courses shall be provided by standing committee of Academic Council from time to time. Head of the Department recommends the list of line courses after ensuring that the student has not studied such course and would not repeat it again as Professional Core/Professional Elective/Open Elective Course. The details of online courses taken by the students should be sent to the COE through HOD within one month from the commencement of the classes. 4.9.4 Maximum of one credit can be considered through the MATLAB self-paced or skill rack certifications. For the credit transfer of these courses instead of the elective course, one credit earned through these platforms may be added with the credits earned through NPTEL online courses in SWAYAM platform. 4.9.5 If a candidate has successfully completed MATLAB or Skillrack course for one credit and has not completed any online course through

SWAYAM platform, the candidate is not eligible for credit transfer of elective course but the grade earned will be printed in grade sheet as additional course.

Copies of the online course certificates should be submitted to the Head of the Department.

4.11 B.E. / B. Tech. (Hons) Specialisation in the same discipline, B.E. / B. Tech. (Hons) and B.E. / B. Tech. minor in other specialisation

B.E./ B. Tech. (Hons) Specialisation in the same discipline or B.E / B.Tech. Honours or B.E./B.Tech. minor in other specialisation degree will be optional for students.

4.11.1. B.E./B.Tech. Honours (specialisation in the same discipline):

a. The student should have earned additionally a minimum of 18 credits from a vertical of the same programme.

b. Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Academic Council.

c. The students will be permitted to register the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.

d. If a student decides not to opt for Honours, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

4.11.2. B.E / B.Tech. Honours

a. The students should have earned additional courses (minimum of 18 credits) from more than one vertical of the same programme.

b. The students will be permitted to register the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all

4.11 B.E. / B. Tech. (Hons) and B.E. / B. Tech. minor in other specialisation

B.E./ B. Tech. (Hons) or B.E./B.Tech. minor in other specialisation degree will be optional for students.

4.11.1. B.E / B.Tech. (Hons)

a) The students should have earned additional courses (minimum of 18 credits) from one or more than one vertical of the same programme.

b) Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Academic Council.

c) The students will be permitted to register the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.

d) If a student decides not to opt for Honours, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

e) If the student has failed in the additional courses or faced shortage of attendance, the courses will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.

4.11.2. B.E./B.Tech. (Minor with Specialization in another Programme)

a) The student should have earned additionally a minimum of 18 credits in any one of the

the courses in the first attempt.

c. If a student decides not to opt for Honours, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

4.11.3   B.E./B.Tech.   (minor   in   other specialisation)

a. The student should have earned additionally a minimum of 18 credits in any one of the verticals of other B.E/B.Tech programmes or from any one of the following verticals

Vertical I: Fintech and block chain

Vertical II: Entrepreneurship

Vertical III: Public Administration

Vertical IV: Business Data Analytics

 Vertical V: Environment And Sustainability

b. The students will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above.

c. If a student decides not to opt for Minor, after completing certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

verticals of other B.E/B.Tech programmes.

b) Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Academic Council.

c) The students will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above.

d) If a student decides not to opt for Minor, after completing certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

e) If the student has failed in the additional courses or faced shortage of attendance, the courses will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.

12.4.1 Project Work

- If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-register for the same in a subsequent

12.4.1 Project Work

a) If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-register for the same in a subsequent semester.

semester.	b) If a student has submitted the project report but absent in the end semester examination of project work, the student is deemed to be failed. In this case and also if the student attend and fails in the end semester examination of project work of B.E/B.Tech., he/she shall attend the end semester examination again within 60 days from the date of declaration of results. The subsequent viva-voce examination will be considered as re-appearance with payment of exam fees. In case the student fails in the subsequent viva-voce examination also, the student shall redo the course again when offered next. 12.4.1.1 Students shall also undertake a start-up activity for the development of products as part of project work. If the outcome of a start up is a fully developed product and whose concept is tested and validated, then it shall be considered in lieu of the project work. Such students shall submit a start up report. The evaluation of the start-up is as per the evaluation of project work.
12.7 Assessment for Online Courses Students may be permitted to credit **two or three online courses (which are provided with certificate),** subject to a maximum of six credits. The online course(s) of 3 or 4 credits (12 weeks or 8weeks+4weeks or 8weeks+8weeks) can be considered instead of one elective course. Credit transfer is applicable for maximum of two elective courses for the entire course of study. These online courses shall be chosen from the SWAYAM platform, provided the offering organisation conducts regular examination and provides marks. After successful completion of the online course conducted by organization (SWAYAM), the student has to register the online course in the Institution along with other courses. The course shall be evaluated through continuous assessment (40 Marks) conducted by NPTEL mentor and End Semester Examination conducted by CoE (60 Marks). Grades earned through end semester exam and continuous assessment shall be considered for credit transfer of elective course.	**12.7 Assessment for Online Courses** Students may be permitted to credit **online courses (which are provided with certificate),** subject to a maximum of **nine** credits. The online course(s) of 3 or 4 credits (12 weeks or 8weeks+4weeks or 8weeks+8weeks) can be considered instead of one elective course. Credit transfer is applicable for maximum of **three** elective courses for the entire course of study. The students who opt for B.E/B.Tech. (Hons.) or B.E/B.Tech (Minor with Specialization in another programme) can transfer 6 more credits through online courses. These online courses shall be chosen from the SWAYAM platform, provided the offering organisation conducts regular examination and provides marks. **12.7.a.** The number of credits may be assigned as per the table 12.7.1 and the Mapping of the marks with the grades is explained in Table 12.7.2. The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL.

Table: 12.7.1. Number of Credits

No. of Weeks	Total No. of credits earned
4	1
8	2
12	3
16	4

Table 12.7.2 : Mapping of Marks scored in NPTEL course and grades earned

Letter Grade	Marks	Grade Points
O	90-100	**10**
A+	80-89	**9**
A	70-79	**8**
B+	60-69	**7**
B	50-59	**6**
C	40-49	**5**

12.7.b. After successful completion of the online course conducted by organization (SWAYAM), the student has to register the online course in the Institution along with other courses. The course shall be evaluated through continuous assessment (40 Marks) conducted by NPTEL mentor and End Semester Examination conducted by CoE (60 Marks).

12.7.c. Grade earned by a student through end semester exam and continuous assessment (as per 12.7.b.) shall be compared with the grade earned by him/her in NPTEL examination (as per 12.7.a) and the higher grade shall be considered for CGPA calculation and the same shall be printed in grade sheet.

12.7.d. If the candidate is absent or fails in the examination conducted by CoE, the grade earned in NPTEL examination (as per 12.7.a) shall be assigned to the candidate.

12.7.e. For Skillrack/MATLAB Self Paced course one internal test will be conducted by the mentor and the marks entered through this test will be converted into grade as per table 12.7.3.

Table 12.7.3 Skillrack/MATLAB Marks to grades

Marks range	Letter Grade	Grade Points
91- 100	O	**10**
81-90	A+	**9**
71-80	A	**8**
61-70	B+	**7**
56-60	B	**6**
50-55	C	**5**
<50	U	**0**

For the credit transfer of the elective courses, the above grades shall be converted as per the following example:

- The credit earned in the successfully completed Skillrack/MATLAB courses shall be recorded in the grade sheet.
- If a student has not successfully completed the Skillrack/MATLAB courses, then the same shall not be recorded in the grade sheet.
- If a student earns 1 credit through Skillrack/MATLAB course or NPTEL (4 weeks) and 2 more credits through NPTEL (8 weeks) then he/she can drop one professional elective or one open elective and the total grade point of the dropped course can be evaluated as per the following example.

  Course 1 (Skillrack/MATLAB/NPTEL-4 weeks) – C grade – 5 points
  Course 2 (NPTEL – 8weeks) – O grade – 10 points
  Then, the grade point of the dropped course for the calculation of Grade point is obtained as: $(1 \times 5 + 2 \times 10)/3 = 8.33$.

- If a student has successfully completed two 8 week courses only, then he/she can drop only one professional elective/open elective. The computation of Grade point for one PE/OE course dropped in lieu of those two NPTEL courses is as follows.

  Grade point = (2 credits * higher grade point obtained + 1 credit * lower grade point obtained) / 3 credits.

For example, for two courses of two credit each, if the grades obtained are,

Course 1 – C grade – 5 points; Course 2– O grade – 10 points

Then, the grade point of the dropped course for the calculation of CGPA is obtained as: $(1 \times 5 + 2 \times 10)/3 = 8.33$.

15. AWARD OF LETTER GRADES

15.1 The performance of a student will be reported using letter grades, each carrying certain points as detailed in the table 15.1.

Letter Grade	Grade Points	Marks range
O (Outstanding)	10	91- 100
A+(Excellent)	9	81-90
A (Very Good)	8	71-80
B+ (Good)	7	61-70
B (Average)	6	56-60
C (Satisfactory)	5	50-55
U (Reappearance)	0	<50
W (Withdrawal)	-	-
SA (Shortage of Attendance)	-	

Note:

Fixed grading is applicable for all laboratory courses and for the theory courses in which students enrollment is less than or equal to 30. Relative Grading is applicable for all theory courses in which student enrollment is greater than 30.

Relative grading shall be followed for all theory courses if the number of students who have passed the course is greater than 30. In all the courses, if the number of students who have passed the course is less than or equal to 30 then absolute grading shall be followed. For the Project Work/internship/Mini project and Laboratory Courses absolute grading procedure shall be followed irrespective of the number of students who have passed the course.

15.4 If a student successfully completes all the requirements of the programme and also meets the requirements of B.E. / B. Tech. (Hons) or B.E. / B. Tech. Minor but desires not to opt for the additional qualification, then he/she has to submit a declaration with regard to the same 30 days before the completion of semester VIII.

ANNEXURE-II
List of Online Courses

K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM

An Autonomous Institution Affiliated to Anna University, Chennai

List of recommended Online Courses for credit transfer during the Even semester of AY 2023-24

B.E. - Mechanical Engineering

S.No	Course Title
1	Product Design and Manufacturing
2	Usability Engineering
3	Understanding Incubation and Entrepreneurship
4	Finite Element Modeling Of Welding Processes
5	Mechanics Of Fiber Reinforced Polymer Composite Structures
6	Advanced Machining Processes
7	Turbulent Combustion: Theory and Modeling
8	Robotics: Basics and Selected Advanced Concepts
9	Machinery Fault Diagnosis And Signal Processing
10	Fundamentals of Combustion

B.E. - Electrical and Electronics Engineering

S.No	Course title
1	Smart Grid (Basics to Advanced Technologies
2	Digital Protection of Power Systems
3	EV- Vehicle Dynamics and Electric Motor Drives.
4	Power Quality improvement techniques
5	Operation and planning of Power Distribution system
6	Sensors and Actuators
7	Python for Data Science
8	Data science for Engineers
9	Embedded system design with ARM
10	Introduction to Machine learning (Tamil)
11	Introduction to Internet of Things
12	Cloud computing
13	An Introduction to Artificial Intelligence
14	Machine learning for Engineering and Science applications

B.E. - Electronics & Communication Engineering

S.No	Course title
1	Advanced Financial Instruments for Sustainable Business and Decentralized Markets
2	Advanced Robotics
3	AI in Marketing
4	Air pollution and Control
5	Biomedical Signal Processing
6	Block chain and its Applications
7	Data Analytics with Python
8	Education for Sustainable Development
9	Embedded Sensing, Actuation and Interfacing Systems
10	Foundations of Cryptography
11	GPU Architectures And Programming
12	Industrial Automation And Control
13	Introduction To Industry 4.0 And Industrial Internet Of Things
14	Introduction To Internet Of Things
15	Programming In Java
16	Sensors and Actuators
17	VLSI Physical Design with Timing Analysis
18	Deep Learning
19	Deep Learning – IIT Roopar

B.E. - Computer Science and Engineering, B.E. - Computer Science and Engineering (Cyber Security) B.Tech. – Information Technology & B.Tech. – Artificial Intelligence & Data Science

Sl.No	COURSE TITLE
1	Design & Implementation of Human-Computer Interfaces
2	Natural Language Processing
3	Privacy And Security In Online Social Media
4	Advanced Distributed Systems
5	Affective Computing.
6	Games and Information.
7	Getting Started with Competitive Programming.
8	Switching Circuits and Logic Design.
9	Theory of Computation.
10	Compiler Design
11	Foundations of Cyber Physical Systems
12	Block chain and its Applications
13	Business Intelligence & Analytics
14	Computer Vision And Image Processing - Fundamentals And Applications
15	Reinforcement Learning
16	Foundations of Cryptography
17	Design and analysis of algorithms
18	Introduction to Industry 4.0 And Industrial Internet of Things
19	Introduction to Soft Computing
20	The Joy of Computing using Python
21	Parallel Computer Architecture
22	Social Networks
23	Computer Vision
24	Parameterized Algorithms
25	Ethical Hacking
26	Introduction to Game Theory and Mechanism Design
27	Deep Learning
28	Cyber Security and Privacy
29	Digital Image Processing
30	Deep Learning - IIT Ropar
31	Deep Learning for Computer Vision
32	Social Network Analysis
33	Cloud Computing
34	Modern Computer Vision
35	Basics of Computational Complexity
36	Secure Computation: Part I

ANNEXURE-III

List of Value added Courses

List of Value added Courses

S.No.	Title of the Course
1.	Cloud Practitioner (AWS)
2.	Bug Bounty
3.	Augmented Reality and Virtual Reality
4.	Drone Technology
5.	React JS and Golang
6.	Marine Refrigeration and Air conditioning

K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM- 630612
Sivagangai District
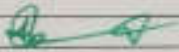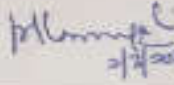(An Autonomous Institution, Affiliated to Anna University, Chennai)
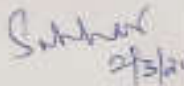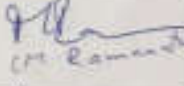
Ref: KLNCE/Autonomous/Academic Council /2024   02.03.2024

Eighth Academic Council meeting held on 2ⁿᵈ March 2024.

Members Present   Date: 02.03.2024, Time:10:30 AM

S. No.	Name of the member	Category	Signature
1.	Dr.A.V.Ramprasad, Principal	Chairman	
2.	Dr.B.Thanasekhar Professor,Department of Computer Technology MIT Campus, Anna University, Chennai 600044	Anna University Nominee	
3.	Dr.B.Manimegalai Professor,Department of ECE Thiagarajar College of Engineering Madurai-625015	Anna University Nominee	
4.	Dr.P.Subha Karuvelam Professor,Department of EEE Government College of Engineering Tirunelveli -627007	Anna University Nominee	
5.	Dr.Ramanathan Muthuganapathy, Professor,Department of Engineering design, Indian Institute of Technology Madras(IITM) Chennai – 600 036	Academician	
6.	Dr.Sriram Kumar, Professor,Department of Electronics and Communication Engineering, National Institute of Technology, Trichy – 620015	Academician	
7.	Dr. B.Karthikeyan, Project Director,HRSAT Constellation, Scientist/Engineer- SG UR Rao Satellite Centre, Department of Space, Government of India, Bangalore – 560017	Research Organization	
8.	Mr. T.Venkateswaran, Principal Architect,Schneider Electric Private Limited,Tower- C,63/3B,BGRT, Whitefield Ashram Road, Hobli, Bidarahalli, Gorvigere Village, Bengaluru, Karnataka – 560067	Industrialist	

9.	Dr.P.Udhaya Kumar	Chairman BoS/ Department of Mechanical Engineering	
10.	Dr.S.M.Kannan	Chairman BoS /Department of Electrical and Electronics Engineering	
11.	Dr.V.Kejalakshmi	Chairman BoS /Department of Electronics and Communication Engineering	
12.	Dr.S.Miruna Joe Amali	HoD /Department of Computer Science and Engineering	
13.	Dr.P.Ganesh Kumar	Chairman BoS/ Computer Science and Engineering and Information Technology/ HoD- IT	
14.	Dr.R.M.Satheesh Kumar	HoD/Department of Automobile Engineering	
15.	Dr.S.Nagammai	Member Secretary & Head Academics and HoD/Department of Electronics and Instrumentation Engineering	
16.	Dr.S.Suresh Raja	HoD/ Department of Artificial Intelligence & Data Science	
17.	Dr.J.S.Kanchana	HoD / Department of Computer Science and Engineering (Cyber Security)	
18.	Dr.J.K.Subashini	Chairman BoS/Science & Humanities HoD/ Mathematics	
19.	Dr.T.Jothimurugan	Chairman BoS/ Department of Master of Business Administration	
20.	Dr.M.R.Ilango	Director/Department of Master of Computer Applications	
21.	Dr.P.R. Vijayalakshmi	Controller of Examinations	
22.	Prof.N.V.Karthikeyan	HOD/Physics	
23.	Prof. O. D. Shakila	HOD/Chemistry	
24.	Dr.A.Ravikkumar	HOD/English	
25.	Dr.K.Gnanambal	Professor /EEE-Faculty Nominee	
26.	Mr. R. Somaskandan	ASP/MCA -Faculty Nominee	
27.	Dr. N.R. Ramanujam	ASP/Physics -Faculty Nominee	
28.	Mrs.S.Venkatalakshmi	AP / CSE -Faculty Nominee	
2	Dr. R.J. Beherethi	ASP/ASH. Fn Jg Nomu	
29.	Dr.G.Ramesh	Prof. /IT	