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

Ref: KLNCE/Autonomous/Academic Council /2022   25.05.2023

Minutes of the Seventh Academic Council meeting held on 13ᵗʰ May 2023 through hybrid mode.

Meeting ID: https://meet.google.com/dnb-gwkk-cge

Date: 13.05.2023,Time:11:00am

S. No.	Name of the member	Category
1.	**Dr.A.V.Ramprasad**, Principal	Chairperson
2.	**Dr.Rames Chandra Panda** Sr.Principal Scientist, Honorary faculty, Anna University,Chemical Engineering, CSIR-Central Leather research laboratory, Chennai – 600 020.	Anna University Nominee
3.	**Dr.K.Sundareswaran** Senior Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli- 620 015.	Anna University Nominee
4.	**Dr.Sishaj P Simon** Associate Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli- 620 015.	Anna University Nominee
5.	**Dr.P. Asokan** Professor HAG, Department of Production Engineering, National Institute of Technology, Tiruchirappalli- 620 015.	Academician
6.	**Dr. M.Manohar** Deputy General Manager, Booster Hardware Fabrication Facilities(Materials & Mechanical Entity) Vikram Sarabhai Space Centre, Department of Space, Government of India,ISRO, Thiruvananthapuram 695 022.	Research Organization
7.	**Dr.S.J.Thiruvengadam** Professor and Dean(Academics), Thiagarajar College of Engineering, Madurai-625 015.	Academician
8.	**Mr.Manikandan** Chief Operating Officer, M/s Aparajitha Software Services Pvt Ltd., Madurai	Industrialist

9.	Dr.P.Udhaya Kumar	Chairman BoS/ Department of Mechanical Engineering
10.	Dr.S.M.Kannan	Member Secretary & Chairman BoS / Department of Electrical and Electronics Engineering
11.	Dr.S.Miruna Joe Amali	Chairman BoS / Department of Computer Science and Engineering & Department of Computer Science and Engineering (Cyber Security)
12.	Dr.P.Ganesh Kumar	Chairman BoS/ Department of Information Technology& Department of Artificial Intelligence and Data Science
13.	Dr.R.M.Satheesh Kumar	Chairman BoS/ Department of Automobile Engineering
14.	Dr.S.Nagammai	Chairman BoS/ Department of Electronics and Instrumentation Engineering
15.	Dr.P.R.Vijayalakshmi	Controller of Examinations
16.	Dr.S.Suresh Raja	Professor & Head, Artificial Intelligence and Data Science
17.	Dr.T.Jothimurugan	Chairman BoS/ Department of Master of Business Administration
18.	Dr.M.R.Ilango	Chairman BoS/Department of Master of Computer Applications
19.	Dr.J.K.Subashini	Chairman BoS/S&H
20.	Prof.N.V.Karthikeyan	HOD/Physics
21.	Prof. O. D. Shakila	HOD/Chemistry
22.	Dr.A.Raviekkumar	HOD/English
23.	Dr.M.R.Thansekhar	Professor / Mechanical Engineering
24.	Dr.T.R.Muthu	Assistant Professor/ Electronics and Communication Engineering
25.	Dr.R.SelvaRani	Assistant Professor/Department of Mathematics

Minutes of Academic Council Meeting

The meeting started with the welcome address by the Chairman, Academic Council, by welcoming the members and Special invitees of the Academic Council. The chairman reviewed the sixth Academic Council meeting held on 6th April 2023. He briefed the Agenda of the Seventh Academic Council meeting and the minutes of the Standing Committee meeting held on 17th April 2023, based on the inputs from department Board of Studies (BoS) meetings held during February to April 2023.

ACM 07.01: Business brought forwarded by the Chairman, Academic Council:

i.   Ratification of previous Academic Council meeting minutes: All the suggestions given by the Academic Council members during the previous Academic Council meeting were unanimously ratified.

ii. To consider and approve the Amendments - III of the Regulations R2020.

iii. To approve the online courses for credit transfer during the Academic Year 2023-2024 and to approve the additional value added courses

iv. To approve the Skill Based Courses to be offered from the Academic Year 2023-2024

v.   To consider and approve the following changes in Amendments II of UG and PG Regulations 2020. As per the directions of Anna University, the internal marks and external marks for Project work have been revised as 60 and 40 respectively. Hence in UG - Amendments II, the clauses 11.2.4, 12, 12.4.1 and 12.4.2, Table 12.1, 12.5.a and Table 12.5.b. and in PG – Amendments II, the clauses 11, 13 and Table 13.2 are re-revised as follows:

Revision in UG Amendments II:

11.2.4 The continuous internal assessment for the project work will carry **60 marks** while the End Semester examination will carry **40 marks**.

Table 12.1:

S.No	Category of Course	Continuous Assessments	End-Semester Examinations
1	Theory Courses	40 Marks	60 Marks
2	Laboratory Courses/Mini Project	60 Marks	40 Marks
3	Theory courses with Laboratory Component / Laboratory courses with Theory Component	50 Marks	50 Marks
4	Project Work	60 Marks	40 Marks
5	All other EEC Courses	100 Marks	-

12.

12.4.1 Project Work

Project work may be assigned to a single student or to a group of students not exceeding 4 per group.

Project work shall be carried out under the supervision of a "qualified teacher" (possessing PG Degree or Ph.D Degree) in the department concerned.

The maximum marks for **Continuous Assessment is fixed as 60** and the **End Semester Examination (project report evaluation and viva-voce examination) carries 40 marks** for project work.

The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of three members in the review committee.

The project supervisor will be one of the members of the Review Committee.

There shall be three assessments during the semester by a review committee. The student shall make presentation on the progress made before the committee.The total marks obtained in the three Reviews shall be arrived to 60 marks.

The project report shall carry a maximum 10 marks. The project report shall be submitted as per the approved guidelines as given by Academic Council. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 30 for project work**.** Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

The continuous assessment and End Semester Examinations marks for Project Work and the Viva-Voce Examination will be distributed as indicated in Table 12.5.a.

Table 12.5.a. Assessment of Project Work

Continuous Assessment 60 Marks			End Semester Examination 40 Marks			
Review 1	Review 2	Review 3	Report Evaluation	Viva-Voce		
				External Examiner	Internal Examiner	Supervisor
20	20	20	10	10	10	10

Table 12.5.b. Assessment of Mini Project

Continuous Assessment 60 Marks			End Semester Examination 40 Marks			
Review 1	Review 2	Review 3	Report Evaluation	Viva-Voce		
				External Examiner	Internal Examiner	Supervisor
20	20	20	10	10	10	10

Revision in PG – Amendments II - From the AY 2022-2023 (Even Semester) onwards

11. Procedure for Awarding Marks for Internal Assessment:

For all theory, laboratory courses, theory courses with Laboratory Component, mini project and project work, the continuous assessment shall be awarded as per the procedure given in Table 11.1.

S.No	Category of Course	Continuous Assessments	End-Semester Examinations
1	Theory Courses	40 Marks	60 Marks
2	Laboratory Courses	60 Marks	40 Marks
3	Theory courses with Laboratory Component / Laboratory courses with Theory Component	50 Marks	50 Marks
4	Project Work/Mini Project	60 Marks	40 Marks
5	All other EEC Courses	100 Marks	-

13. END SEMESTER EXAMINATIONS

13.2 Weightage

The following will be the weightage for different courses.

i. A. Theory Courses

Internal Assessment (40)   - 40%

End Semester Examinations (60) - 60%

B. Theory courses with Laboratory component

Internal Assessment (50)   - 50%

End Semester Examinations (50) - 50%

ii) Laboratory courses

Internal Assessment (60)   - 60%

End Semester Examinations (40) - 40%

iii) Project work as per table 13.2

Internal Assessment (60)   - 60%

Evaluation of Project Report by external examiner (10)   - 10%

Viva-Voce Examination (30)   - 30%

iv) Practical training / summer project / seminar Internal Assessment   - 100%

Table 13.2: Assessment of Project Work

Continuous Assessment 60 Marks			End Semester Examination 40 Marks			
Review 1	Review 2	Review 3	Report Evaluation	Viva-Voce		
				External Examiner	Internal Examiner	Supervisor
20	20	20	10	10	10	10

Resolved to approve the above points ii, iii, iv and v

ACM 07.02: Business brought forwarded by the Board of Studies:

ACM 07.02.01 DME: Department of Mechanical Engineering

i.   To consider and approve V to VIII semester revised curriculum and syllabus of B.E Mechanical Engineering Degree Program as passed in the BOS meeting held on 25.02.2023.

ii. To change the course code as 20GE206 with L/T/P/C of 3/0/0/3 instead of 20GE201 with L/T/P/C of 2/0/2/3 for the course titled, "Engineering Graphics" for the students admitted from the Academic Year 2022-2023 onwards, as passed in the BOS meeting held on 25.02.2023.

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

ACM 07.02.02 DEE : Department of Electrical and Electronics Engineering

To consider and approve V to VIII semester revised curriculum and syllabus of B.E Electrical and Electronics Engineering Degree Program as passed in the BOS meeting held on16.02.2023.

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

ACM 07.02.03 DEC : Department of Electronics and Communication Engineering

To consider and approve V to VIII semester revised curriculum and syllabus of B.E Electronics and Communication Engineering Degree Program as passed in the BOS meeting held on 25.02.2023.

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

ACM 07.02.04 DCS: Department of Computer Science and Engineering

To consider and approve

i.   V to VIII semester revised curriculum and syllabus of B.E Computer Science and Engineering Degree Program.

ii. I to VIII semester revised Curriculum and syllabus of V & VI semesters B.E Computer Science and Engineering (Cyber Security) Degree Program

as passed in the BOS meeting held on 24.04.2023.

Resolved to approve the above for B.E Computer Science and Engineering and B.E Computer Science and Engineering (Cyber Security) Degree Programmes

ACM 07.02.04 DIT: Department of Information Technology

To consider and approve

i. V to VIII semester revised curriculum and syllabus of B.Tech Information Technology Degree Program.

ii. V to VIII semester revised curriculum and syllabus of VII & VIII semesters B.Tech Artificial Intelligence and Data Science Degree Program.

as passed in the BOS meeting held on 05.04.2023.

Resolved to approve the above for B.Tech Information Technology and B.Tech Artificial Intelligence and Data Science Degree Programmes

ACM 07.02.05. DMBA: Department of Management Studies

i. To consider and approve the syllabus of Management elective courses namely

• Industrial Marketing

• Management Concepts and Organizational Behavior

to be offered in V/VI/VII semester of B.E / B.Tech Degree Programmes from the Academic Year 2023-2024 as passed in the BOS meeting held on 06.04.2023.

ii. To consider and approve the syllabus of Management courses offered under the following verticals for the award of Minor degree to B.E/B.Tech., students who are admitted from the Academic Year 2021-2022 onwards.

• VERTICAL I: FINTECH AND BLOCK CHAIN

• VERTICAL II: ENTREPRENEURSHIP

Resolved to approve the above points to be followed from the Academic Year 2023-2024

ACM 07.03: Any Other Matter:

i. Chairman informed that, in UG regulation R-2020, as per clause 4.8, all the students have to undergo atleast one Value Added Course to earn 1 or 2 credits over and above the total credit requirement prescribed in the curriculum for the award of the degree. Chairman presented the list of Skill Based Courses with syllabi and procedure for enrolment of Skill Based Courses in lieu of Professional Electives/Open Electives and necessary amendments to be made in clause 4.8, Regulations – R2020 (applicable to students admitted from the AY 2022-2023 onwards).

Resolved to approve the above for the UG students from the Academic Year 2023-2024 onwards

ii. Chairman presented the list of Skill Based Courses to be offered for B.E/B.Tech., programmes. He also informed that, Skill Based Courses namely "Professional Development Course" with L T P C - 0 0 2 1 (1 credit) and Maths Solver with L T P C of 0 0 4 2 (2 credits) will be offered during third and fourth Semesters respectively for all UG students who are admitted from the academic year 2022-2023 onwards. He requested the members for the approval of the same.

iii. Chairman informed that, for all B.E./B.Tech students a mandatory Course namely "Essence of Indian Traditional Knowledge" is being offered during VI semester. This mandatory course has been removed in all UG programmes' revised curricula, due to the introduction of Minor degree/Honors and the shifting of VIII semester courses to lower semesters. He requested the members for the approval of the same.

iv. Chairman presented the additional Value Added Courses for approval of the members.

v. Chairman also presented the list of Online courses for credit transfer for approval of the members.

Resolved to approve the above ii to v points

ACM 07.04: Business brought forwarded by the Deputy Controller of Examinations:

The Chairman requested Dr. J.Rajesh Babu, Deputy Controller of Examinations to brief the end semester examination modalities and the results.

Deputy CoE presented the results of end semester examinations of 3rd & 5th semesters (KLNCE Regulations 2020) & 7th Semester (AU Regulations 2017) B.E./B.Tech Degree programmes held during Nov/Dec 2022 and informed that for the conduct of end semester examinations, the guidelines of Anna University were followed. The results of the above end semester examinations were approved in the ninth result passing board meeting held on 10.02.2023.

The following are the suggestions given by Nominees and Experts:

- The expert member suggested to include the course namely "Financial Management" under Management Elective courses. Chairman informed that, an already approved course titled, "Economics for Engineers" will be included in the list of Management Elective courses and the members have also accepted the same.
- The experts suggested to incorporate corrective measures to improve the pass percentage in the end semester examination pertaining to third and fifth semester B.E./B.Tech

Degree programmes. Chairman informed that suitable corrective measures will be taken in this regard.

- The expert member suggested renaming of the titles of verticals namely "Emerging Technologies". Chairman said that, the title will be renamed as "Advanced computing Technologies"

- Chairman said that, PG Regulation R2024 will be framed during next Academic year and asked permission to continue the existing curriculum & syllabus for students joining in the academic year 2023-2024.

Dr.S.M.Kannan, Member Secretary, proposed vote of thanks and the meeting came to an end at 1.00 pm.

Signature of the Chairman

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

ANNEXURE-I

KLNCE - Regulations 2020 Amendments

Existing	Revised
4.8 Value Added Courses All the students have to undergo atleast one Value Added Course to earn 1 or 2 credits over and above the total credit requirement prescribed in the curriculum for the award of the degree. One-Credit / Two-Credit courses can be offered by the departments **during pre-final year of the programme,** with the prior approval from the Chairperson, Academic Council. It is to be noted that the Value added courses offered should not be a course listed in the curriculum of any programme offered in the Institution. The details of the syllabus, time table and faculty should be approved by the Chairperson, Academic Council. Students can take a maximum of two 1-credit courses (15 periods each) or one 2 - credits course (30 periods) during the entire duration of the Programme.	**4.8 Value Added Courses & Skill Based Courses** **4.8.1 Value Added Courses** All the students have to undergo atleast one Value Added Course to earn 1 or 2 credits over and above the total credit requirement prescribed in the curriculum for the award of the degree. One-Credit / Two-Credit courses can be offered by the departments **during pre-final year of the programme,** with the prior approval from the Chairperson, Academic Council. It is to be noted that the Value added courses offered should not be a course listed in the curriculum of any programme offered in the Institution. The details of the syllabus, time table and faculty should be approved by the Chairperson, Academic Council. Students can take a maximum of two 1-credit courses (15 periods each) or one 2 - credits course (30 periods) during the entire duration of the Programme. **4.8.2 Skill Based Courses:** Students shall undergo industry relevant skill based courses. These skill based experiential learning courses will be offered in two categories as purely Laboratory Based Courses and Theory Integrated Laboratory Courses with the following credits. <table><tr><th>S.No</th><th>Category</th><th>L</th><th>T</th><th>P</th><th>C</th></tr><tr><td rowspan="2">i.</td><td rowspan="2">Laboratory Courses</td><td>0</td><td>0</td><td>4</td><td>2</td></tr><tr><td>0</td><td>0</td><td>2</td><td>1</td></tr><tr><td>ii</td><td>Theory integrated Laboratory Course</td><td>1</td><td>0</td><td>2</td><td>2</td></tr></table> These courses are handled by the industry persons or the industry trained faculty members along with one mentor from the firm. Every student shall enrol for one course in a semester under this scheme. A student may accumulate up to 6 credits through such courses, and such credits will be considered in lieu of the Professional Elective and/or Open Elective courses.
12.6 Assessment for Value Added Courses • The one / two credit course shall carry 100 marks and shall be evaluated through **continuous assessments only**. Two Assessments shall be conducted during the semester by the Department concerned. • The duration of assessment is one hour each. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. The Head of the Department may identify a faculty member as coordinator for the	**12.6 Assessment for Value Added Courses & Skill Based Courses** **12.6.1 Assessment for Value Added Courses** • The one / two credit course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments shall be conducted during the semester by the Department concerned. • The duration of assessment is one hour each. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. The Head of the

course.

- A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process. The grades shall be assigned to the students by the above committee based on their relative performance. The coordinator for the course is responsible for maintaining and processing the records with regard to assessment marks and results.
- The passing requirement for value added courses shall be 50% of the marks prescribed for the course (Internal assessment only).
- The list of students along with the marks and the grades earned may be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations.

Department may identify a faculty member as coordinator for the course.

- A committee consisting of the Head of the Department, mentor from the firm and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process. The grades shall be assigned to the students by the above committee based on their relative performance. The coordinator for the course is responsible for maintaining and processing the records with regard to assessment marks and results.
- The passing requirement for value added courses shall be 50% of the marks prescribed for the course (Internal assessment only).
- The list of students along with the marks and the grades earned may be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations.

12.6.2 Assessment for Skill Based Courses

A student may accumulate upto 6 credits through such courses, and such credits will be considered in lieu of the Professional Elective and/or Open Elective courses.

The evaluation of the skill based courses is fully internal and shall be jointly done by the course coordinator from the institution and the mentor from the firm. (a) If the course involves certification from the firm/company, then 20% of the total marks will be included in the internal assessment marks, 30% will be included from the marks provided by the firm and 50% shall be evaluated by the respective Course Coordinators of the college by conducting appropriate theory and / or laboratory tests. (b) If there is no certification from the firm/company, then 50% will be included from the marks provided by the firm and 50% shall be evaluated by the respective Course Coordinators of the college by conducting appropriate theory and / or laboratory tests.

Procedure to drop Professional Elective / Open Elective course(s) and computation of Grade point

A student is permitted to drop either 1 or 2 Professional Elective / Open Elective course(s) as per the procedure given below.

Table: 12.6.2 Procedure to drop Professional Elective / Open Elective course(s)

No. of courses	Total No. of credits earned	Courses to be printed in the grade sheet	No. of Professional elective/open elective can be dropped	No. of credits considered for GPA/CGPA calculation
1	1/2	1	-	-
2	3/4	2	1	3

3	3/4/5	3	1	3
	6	3	2	6

- The credits earned by the student of the successfully completed Skill Based Courses shall be recorded in the grade sheet.
- If a student has not successfully completed the skill based courses during the semesters V, VI and VII, then the same shall not be recorded in the grade sheet.
- If a student earns 2 credits in Semester V and then enroll for another 2 credits in Semester VI, then he / she is permitted to drop one Professional elective/ open elective course in Semester VI. Further, if the student earns 4 credits upto Semester VI and enrols for another 2 credits in Semester VII, then he/she is permitted to drop an additional professional elective/open elective course in the VII semester.
- If the student has enrolled for skill based courses but has not successfully earned 4 or 6 credits and also dropped 1 or 2 PE/OE courses in anticipation of pass, then he/she has to enrol the PE/OE (as the case may be) to meet the total credit requirements to earn the degree.

Method for computation of Grade point of dropped PE / OE courses

The method of Computation of Grade point for the dropped PE/OE courses is given below:

1. If a student has successfully completed two Skill Based Courses, then the computation of Grade point for one PE/OE course dropped in lieu of those two skill based 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: $(1 \times 5 + 2 \times 10)/3 = 8.33$.

   One PE/OE course shall be dropped for 3 credits with grade point computed as above.

2. If a student has successfully completed three Skill Based Courses, then the computation of Grade point for dropping two PE/OE in lieu of those three skill based courses is as follows.

   For three courses of two credit each computation of Grade point of each of the two dropped PE/OE courses for the calculation of CGPA = Average grade point of three skill based courses.

   Two PE/OE courses shall be dropped of 3 credits each, with grade point computed as above.

17.0 Provision for withdrawal from examination	**17.0 Provision for withdrawal from examination**
17.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Chairman, Sports Board, Anna University / Head of the Institution) be granted permission to withdraw from appearing for the end semester examination in any course or courses in ANYONE of the semester examinations during the entire duration of the degree programme.	17.1 A candidate, may for valid reasons, (medically unfit / unexpected family situations / sports approved by Chairman, Sports Board, Anna University / Head of the Institution) be granted permission to withdraw from appearing for the end semester examination of any one course or courses in **ANYONE of the semester examinations during the entire duration** of the degree programme.
17.2 Withdrawal application shall be valid only if the student is otherwise eligible to write the examination and if it is made within TEN working days before the commencement of the end semester examination in that course or courses and also recommended by the Head of the department, approved by Head of the Institution and intimated to Controller of Examination.	17.2 Withdrawal application is valid only if the student is otherwise eligible to write the examination and if it is made within 10 days prior to the commencement of the examination in that course or courses and recommended by the Head of the department, approved by Head of the Institution and intimated to Controller of Examination. For a student to withdraw from a course / courses, he/she should have registered for the course, fulfilled the attendance requirements (vide clause 7) and earned continuous assessment marks.
17.2.1 Not with standing the requirement of mandatory 10 days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.	17.2.1 Notwithstanding the requirement of mandatory TEN days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
17.3 In case of withdrawal from a course / courses (Clause 13) the course will figure both in Marks Sheet as well as in Result Sheet. **Withdrawal essentially requires the student to register for the course/courses.** The student has to register for the course, fulfill the attendance requirements (vide clause 7), earn continuous assessment marks and attend the end semester examination. However, withdrawal shall not be considered as an appearance for the eligibility of a candidate for First Class with Distinction.	17.3 In case of withdrawal from a course / courses (Clause 13) the course will figure both in Marks Sheet as well as in Result Sheet. However, withdrawal shall not be considered as an appearance for the eligibility of a candidate for First Class with Distinction.
17.4 Withdrawal is permitted for the end semester examinations in the final semester, only if the period of study the student concerned does not exceed 5 years as per clause 16.2.1.	17.4 If a student withdraws from writing end semester examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the end semester examination(s).
	17.5 If a student applies for withdrawal from Project Work, he/she will be permitted for the withdrawal only after the submission of project report before the deadline. However, the student may appear for the viva voce examination within 30/60 days after the declaration of results for Project Work I and II respectively and the same shall not be considered as reappearance.
	17.6 Withdrawal is permitted for the end semester examinations in the final semester, only if the period of study the student concerned does not exceed 5 years as per clause 16.2.1.

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 odd semester of
AY 2023-24

B.E. - Mechanical Engineering

Sl.No	Course Title	Course Duration
1	Product Design and Manufacturing	12 Weeks
2	Introduction To Mechanical Micro Machining	12 Weeks
3	Welding Metallurgy	12 Weeks
4	Robotics: Basics and Selected Advanced Concepts	12 Weeks
5	Advanced Robotics	12 Weeks
6	Computational Fluid Dynamics for Incompressible Flows	12 Weeks
7	Turbulent Combustion: Theory And Modeling	12 Weeks
8	Inverse Methods in Heat Transfer	12 Weeks
9	Fundamentals of Automotive Systems	12 Weeks
10	Understanding Incubation and Entrepreneurship	12 Weeks
11	Usability Engineering	12 Weeks
12	Quality Design And Control	12 Weeks
13	Organizational Design Change and Transformation	12 Weeks
14	Finite element modeling of welding processes	12 Weeks

B.E. - Electrical and Electronics Engineering

Sl.No	Course title	Course Duration
1	Introduction to Machine Learning	12 Weeks
2	Data Science for Engineers	8 Weeks
3	Cloud Computing and Distributed Systems	8 Weeks
4	Cloud Computing	8 Weeks
5	Ethical Hacking	12 Weeks
6	Introduction To Internet Of Things	12 Weeks
7	Fundamentals of Electric Vehicles	4 Weeks

B.E. - Electronics & Communication Engineering

Sl.No	Course title	Course Duration
1	Introduction to Embedded System Design	12 Weeks
2	Data Analytics with Python	12 Weeks
3	The Joy of Computing using Python	12 Weeks
4	Ethical Hacking	12 Weeks
5	Programming In Java	12 Weeks
6	Introduction To Internet Of Things	12 Weeks
7	Introduction To Industry 4.0 And Industrial Internet Of Things	12 Weeks
8	Embedded Systems Design	12 Weeks
9	Digital IC Design	12 Weeks
10	Sensors and actuators	12 Weeks
11	Roadmap for patent creation	8 Weeks
12	Education for Sustainable Development	12 Weeks

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	Course Duration
1	Data Analytics with Python	12 Weeks
2	Privacy and Security in Online Social Media	12 Weeks
3	Social Networks	12 Weeks
4	Python for Data Science	4 Weeks
5	Ethical Hacking	12 Weeks
6	Blockchain and its Applications	12 Weeks
7	Introduction To Internet Of Things	12 Weeks
8	Deep Learning	12 Weeks

B.E. - Electronics & Instrumentation Engineering

Sl.No	Course title	Course Duration
1	Introduction to Embedded System Design	12 Weeks
2	Data Analytics with Python	12 Weeks
3	The Joy of Computing using Python	12 Weeks
4	Ethical Hacking	12 Weeks
5	Programming In Java	12 Weeks
6	Introduction To Internet of Things	12 Weeks
7	Introduction To Industry 4.0 And Industrial Internet Of Things	12 Weeks
8	Embedded Systems Design	12 Weeks

ANNEXURE-III

List of Value added Courses

List of Value added Courses

- Geometric Dimensioning and Tolerance
- Machine Vision System in Digital Transformation
- Integrated Building Management System
- Design Thinking and Innovation
- Fundamentals of Internet of Things (IoT)
- Cyber Security
- Microsoft Power BI Data Analyst (Atos)
- Advanced quality core tools for manufacturing
- NLP using python
- Microsoft Azure fundamentals

ANNEXURE-IV

List of Skill based Courses

LIST OF SKILL BASED COURSES

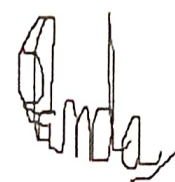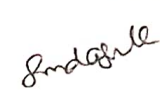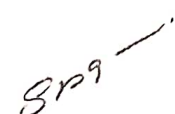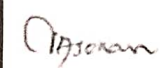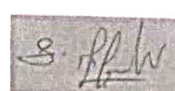| S. NO.	DEPARTMENT	COURSE TITLE	L	T	P	C
1.	Dept. of Mech	Product Design Engineering and Modelling	1	0	2	2
2.	Dept. of Mech.	Manufacturing of Mechanical Components using CNC Turning / Milling	1	0	2	2
3.	Dept. of Mech.	Product Design and Manufacturing - 3D Surface Modelling	1	0	2	2
4.	Dept. of IT/CSE/ECE/EEE/AIDS	Network Essentials	1	0	2	2
5.	Dept. of IT/CSE/ECE/AIDS	Industrial Metaverse Using mixed reality (XR)	1	0	2	2
6.	All B.E./B.Tech	Foundations for AI, ML, FS	1	0	2	2
7.	All B.E./B.Tech	Block Chain Development	1	0	2	2
8.	All B.E./B.Tech	Digital Marketing	1	0	2	2
9.	Dept. of ECE/EEE/Mech	Robotic Process Automation Development	1	0	2	2
10.	Dept. of EEE/ECE	Embedded System Design - Board Design and Debug	1	0	2	2
11.	Dept. of EEE/Mech	Design of Photo Voltaic System	1	0	2	2
12.	Dept. of EEE	Electric Vehicle Charging System Design	1	0	2	2
13.	Dept. of EEE/ECE	Embedded System Design and Applications	1	0	2	2
14.	Dept. of EEE/ECE	Embedded System Design - Industrial Applications	1	0	2	2
15.	Dept. of Mech	Sustainable Building Design	1	0	2	2
16.	All B.E./B.Tech	Network Engineering	1	0	2	2
17.	Dept. of CSE/IT/ECE/AIDS	Architecture Vizualisation using AR/VR	1	0	2	2
18.	Dept. of Mech./EEE	EV Design	1	0	2	2
19.	All B.E/B.Tech	Full Stack Development	1	0	2	2
20.	Dept. of Mech.	Smart and Advanced Manufacturing – Design & Simulation	1	0	2	2
21.	Dept. of Mech.	Smart and Advanced Manufacturing – Process Simulation	1	0	2	2
22.	All B.E/B.Tech	Professional Readiness for Innovation, Employment and Entrepreneurship	1	0	2	2

K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM- 630612
Sivagangai District
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Minutes of the Seventh Academic Council meeting held on 13th May 2023 through hybrid mode.
Members present

S. No.	Name of the member	Category	Signature
1	Dr.A.V.Ramprasad, Principal	Chairperson	
2	Dr.Rames Chandra Panda Sr.Principal Scientist, Honorary faculty, Anna University,Chemical Engineering, CSIR-Central Leather research laboratory, Chennai – 600 020.	Anna University Nominee	
3	Dr.K.Sundareswaran Senior Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli- 620 015.	Anna University Nominee	
4	Dr.Sishaj P Simon Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli- 620 015.	Anna University Nominee	
5	Dr.P.Asokan Professor HAG, Department of Production Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Academician	
6	Dr. M.Manohar Deputy General Manager, Booster Hardware Fabrication Facilities(Materials & Mechanical Entity) Vikram Sarabhai Space Centre, Department of Space, Government of India,ISRO, Thiruvananthapuram 695 022.	Research Organization	
7	Dr.S.J.Thiruvengadam Professor and Dean(Academics), Thiagarajar College of Engineering, Madurai-625 015.	Academician	
8	Mr. S.M. Manikandan Chief Operating Officer, M/s Aparajitha Software Services Pvt Ltd., Madurai	Industrialist	

9.	Dr.P.Udhaya Kumar	Chairman BoS/ Department of Mechanical Engineering	
10.	Dr.S.M.Kannan	Member Secretary & Chairman BoS / Department of Electrical and Electronics Engineering	
11.	Dr.S.Miruna Joe Amali	Chairman BoS / Department of Computer Science and Engineering and CSE Cyber Security	
12.	Dr.P.Ganesh Kumar	Chairman BoS/ Department of Information Technology& Artificial Intelligence and Data Science	
13.	Dr.R.M.Satheesh Kumar	Chairman BoS/ Department of Automobile Engineering	
14.	Dr.S.Nagammai	Chairman BoS/ Department of Electronics and Instrumentation Engineering	
15.	Dr.P.R.Vijayalakshmi	Controller of Examinations	On leave
16.	Dr.S.Suresh Raja	Professor and Head, Artificial Intelligence and Data Science	
17.	Dr.T.Jothimurugan	Chairman BoS/ Department of Master of Business Administration	
18.	Dr.M.R.Ilango	Chairman BoS/Department of Master of Computer Applications	
19.	Dr. J.K. Subashini	Chairman BoS, S&H	
20.	Prof.N.V.Karthikeyan	HOD/Physics	
21.	Prof. O. D. Shakila	HOD/Chemistry	
22.	Dr.A.Raviekkumar	HOD/English	
23.	Dr.M.R.Thansekhar	Professor / Mechanical Engineering	
24.	Dr.T.R.Muthu	Assistant Professor/ Electronics & Communication Engineering	
25.	Dr.R.Selvarani	Associate Professor / Maths	