

**K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM - 630 612.**





(An Autonomous Institution, Affiliated to Anna University, Chennai)

Ref.: KLNCE/Autonomous/Academic Council/ 2020







29.09.2020





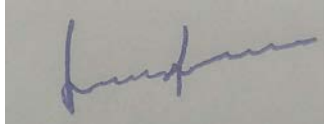


Minutes of the first Academic Council meeting held on 26 September 2020 through online mode.



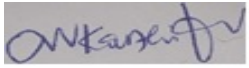
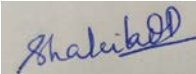

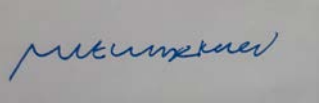


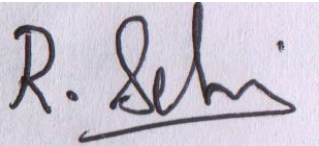
Zoom Meeting ID: 5897343816, Pass code: 20TBTj, Date: 26.9.2020 (Saturday) @ 2:00 PM

<b>MEMBERS PRESENT</b>			
<b>S. No.</b>	<b>Name of the member</b>	<b>Category</b>	<b>Signature</b>
1.	<b>Dr.A.V.Ramprasad</b> , Principal	Chairperson	
2.	<b>Dr.Rames Chandra Panda</b> Sr. Principal Scientist, Honorary faculty, Anna University, Chemical Engineering, CSIR - Central Leather Research Laboratory, Chennai – 600 020.	Anna University Nominee	
3.	<b>Dr.K.Sundareswaran</b> Senior Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli – 620 015.	Anna University Nominee	
4.	<b>Dr.Sishaj P Simon</b> Associate Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli – 620 015.	Anna University Nominee	

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5.	<b>Dr.P.Asokan</b> Professor HAG, Department of Production Engineering, National Institute of Technology, Tiruchirappalli – 620 015.	Academician	
6.	<b>Dr. A. Antony Franklin</b> Associate Professor, Department of Computer Science and Engineering, Indian Institute of Technology, Hyderabad – 502 285.	Academician	
7.	<b>Dr. M.Manohar</b> 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	
8.	<b>Dr.S.J.Thiruvengadam</b> Professor and Dean (Academic Process), Thiagarajar College of Engineering, Madurai – 625 015.	Academician	
9.	<b>Mr. S.M. Manikandan</b> Chief Operating Officer, M/s. Aparajitha Software Services Pvt Ltd., Madurai – 625 002.	Industrialist	
10.	<b>Dr.P.Udhaya Kumar</b>	Chairman BoS / Department of Mechanical Engineering	

11.	<b>Dr.S.M.Kannan</b>	Member Secretary & Chairman BoS / Department of Electrical and Electronics Engineering	
12.	<b>Dr.V.Kejalakshmi</b>	Chairman BoS / Department of Electronics and Communication Engineering	
13.	<b>Dr.P.R.Vijayalakshmi</b>	Chairman BoS / Department of Computer Science and Engineering	
14.	<b>Dr.R.Alageswaran</b>	Chairman BoS / Department of Information Technology	
15.	<b>Dr.R.M.Satheesh Kumar</b>	Chairman BoS / Department of Automobile Engineering	
16.	<b>Prof.S.Nagammai</b>	Chairman BoS / Department of Electronics and Instrumentation Engineering	
17.	<b>Dr.T.Jothimurugan</b>	Chairman BoS / Department of Management Studies	

18.	<b>Dr.MR.Ilango</b>	Chairman BoS / Department of Master of Computer Applications	
19.	<b>Dr.J.K.Subhashini</b>	Chairman BoS / Science and Humanities	
20.	<b>Prof.N.V.Karthikeyan</b>	HOD / Physics	
21.	<b>Prof. O.D. Shakila</b>	HOD / Chemistry	
22.	<b>Dr.A.Raviekkumar</b>	HOD / English	
23.	<b>Dr.M.R.Thansekhar</b>	Professor / Mechanical Engineering	
24.	<b>Dr.M.Raghini</b>	Associate Professor / Computer Science and Engineering	
25.	<b>Prof.T.R.Muthu</b>	Assistant Professor / Electronics and Communication Engineering	
26.	<b>Dr.R.Selvarani</b>	Associate Professor / Mathematics	

## **Minutes of Academic Council Meeting**

### **I. Introduction:**

The first Academic Council meeting was held on 26<sup>th</sup> September 2020 through online mode. Dr. A.V. Ramprasad, Chairperson, Academic Council, K.L.N. College of Engineering welcomed & introduced the Anna University nominees, Experts and internal members. The Chairman, Board of Studies of various departments introduced themselves. The Chairperson gave a brief introduction of the College Management Committee members. The institution is NAAC accredited, and Autonomous status granted by UGC for the period of 10 years from 2020-2021 onwards, he added.

The Chairperson informed that the college was started in the year 1994, presently having seven Undergraduate B.E./B.Tech Degree programmes, permanently affiliated to Anna University, Chennai. The programmes are B.E. - Mechanical Engineering (Accredited by NBA), Electrical and Electronics Engineering (Accredited by NBA), Electronics and Communication Engineering (Accredited by NBA), Computer Science and Engineering (Accredited by NBA), Automobile Engineering, Electronics and Instrumentation Engineering and B.Tech - Information Technology (Accredited by NBA).

The five PG programmes offered are MBA, MCA, M.E (Power Systems Engineering), M.E (Communication Systems) and M.E (Computer Science and Engineering with Specialization in Networks). Anna University recognized Research Centre for pursuing Doctoral Programmes are offered in the departments of EEE, ECE and IT.

The Chairperson informed that the college received Rs. 5.0 crores from AICTE, DST towards carrying out various research projects, conduct of FDP, workshops and thanked funding agencies for the continuous support towards the development of the Teaching community and Educational system.

The Chairperson briefed about the functioning of IQAC through quality circles, IIPC, IPC and other academic support units towards the achievement of the vision and mission of the institution. The Chairperson briefed the profile of the college, infrastructural details, other academic activities such as industrial visit, student internship, placement, extracurricular activities, co-curricular activities, consultancy, projects provided to society, external sponsors, distinctiveness of KLNCE, Exam Management Cell and finally the milestones of KLNCE.

## **II. ACM 01.01: Business brought forwarded by the Chairperson, Academic Council:**

To consider and approve the Regulations-2020 for B.E/B.Tech, M.E, MBA and MCA Degree Programmes to be followed from the Academic Year 2020-2021.

The Chairperson presented the drafted Regulations 2020 UG and PG programmes, framed as per the guidelines of AICTE, UGC and Anna University for kind perusal and approval. Also, the chairperson highlighted the distinct features of Regulations 2020. The drafted Regulations describe the programmes offered with the total number of courses per semester. The assignment of credits was presented in detail. The grading system for value added courses, industrial training and online courses with a minimum of 8 weeks were mentioned. The Chairperson informed that the students may be permitted to credit approved online courses instead of elective courses.

The system of evaluation includes 30% for internal assessment and 70% for End Semester Examinations, with passing minimum of 50 marks (internal and external put together) and passing minimum of 50% in End Semester Examinations. Internal assessment marks are valid for three consecutive semesters. The theory with laboratory components has been included in the new curriculum. The assessment is 60% for theory component and 40% for laboratory component.

The norms of Anna University with regard to minimum attendance prescribed for permitting students to appear for End Semester Examinations and classification criteria for the award of degree are adhered.

Eligibility for award of Ranks to students: Top 5% of students enrolled in each programme with CGPA of 8.0 and above.

The following are the suggestions given by the members for the draft Regulations 2020 UG & PG.

- i. To prefer the NPTEL online courses with a minimum 8 weeks duration.
- ii. To award rank to the students, the eligibility is first class with distinction.

Resolved to Approve the Regulations-2020 for B.E/B.Tech, M.E, MBA and MCA Degree Programmes to be followed from the Academic Year 2020-2021 with the suggestions incorporated.

### **III. ACM 01.02: Business brought forwarded by the Board of Studies:**

#### **ACM 01.02.01 - Department of Science and Humanities**

To consider and approve the Curriculum and syllabi of I & II semester B.E / B.Tech Degree Programmes to be followed from the Academic Year 2020-2021 as passed in the BOS meeting held on 31.08.2020.

Resolved to Approve the Curriculum and syllabi of I & II semester B.E / B.Tech Degree Programmes to be followed from the Academic Year 2020-2021.

#### **ACM 01.02.02 - Department of Mechanical Engineering**

To consider and approve,

- i. The syllabus of the courses offered by the Department of Mechanical Engineering in the I & II semester of B.E / B.Tech Degree Programmes to be followed from the Academic Year 2020-2021.
- ii. The Curriculum of III to VIII semesters B.E. Mechanical Engineering Degree Programme.

as passed in the BOS meeting held on 18.08.2020.

The members suggested to include more number of courses in open electives.

Resolved to Approve the above for B.E. Mechanical Engineering Degree Programme.

#### **ACM 01.02.03 - Department of Electrical and Electronics Engineering**

To consider and approve

- i. The syllabus of the courses offered by the Department of Electrical and Electronics Engineering in the I & II semester to be followed from the Academic Year 2020-2021.
- ii. The Curriculum of III to VIII semesters B.E. Electrical and Electronics Engineering Degree Programme.
- iii. The Curriculum of I to IV Semesters and the syllabus of I and II semester of M.E. (Power Systems Engineering) Degree Programme

as passed in the BOS meeting held on 10.08.2020.

The members suggested including theory cum laboratory components in simulation based laboratory courses.

For M.E. (Power Systems Engineering) Programme, III semester can have maximum three theory courses.

Resolved to Approve the above for B.E. Electrical and Electronics Engineering and M.E. (Power Systems Engineering) Degree Programmes.

#### **ACM 01.02.04 - Department of Electronics and Communication Engineering**

To consider and approve

- i. The syllabus of the courses offered by the Department of Electronics and Communication Engineering in the II semester to be followed from the Academic Year 2020-2021.
- ii. The Curriculum of III to VIII semesters B.E. Electronics and Communication Engineering Degree Programme.
- iii. The Curriculum of I to IV Semesters and the syllabus of I and II semester of M.E. (Communication Systems) Degree Programme.

as passed in the BOS meeting held on 07.08.2020.

The Department of Electronics and Communication Engineering can implement the following.

- One tutorial period may be included for the theory course Signals and Systems offered in III semester.
- The prerequisite has to be ensured while framing the syllabus for the course Analog and Digital Communication Techniques.
- The laboratory courses with PC and EEC category have been given the same credits. The syllabus content needs to be ensured for the assigned credits.
- The Machine Learning Techniques course can be changed as a Theory cum Laboratory course.

For M.E. (Communication Systems), the title of some of the courses may be changed.

Resolved to Approve the above for B.E. Electronics and Communication Engineering and M.E. (Communication Systems) Degree Programmes.

#### **ACM 01.02.05 - Department of Computer Science and Engineering**

To consider and approve

- i. The syllabus of the courses offered by the Department of Computer Science and Engineering in the I and II semester to be followed from the Academic Year 2020-2021.
- ii. The Curriculum of III to VIII semesters B.E Computer Science and Engineering Degree Programme.

as passed in the BOS meeting held on 15.08.2020.

The members suggested to change Network Management and Security Laboratory course as Networks Laboratory and also to offer in the same semester along with related theory courses.

Resolved to Approve the above for B.E. Computer Science and Engineering Degree Programme.



### **ACM 01.02.06 - Department of Information Technology**

To consider and approve

- i. The Curriculum of III to VIII semesters B.Tech. Information Technology Degree Programme.
- ii. The Curriculum of I to IV Semesters and the syllabus of I and II semester of M.E. (Computer Science and Engineering with Specialization in Networks) Degree Programme.

as passed in the BOS meeting held on 17.08.2020.

The members suggested to change Artificial Intelligence and Machine Learning theory course offered in the sixth semester as a Theory cum Laboratory course. Also, the Machine Learning theory course can be offered in the same semester for CSE, IT and ECE.

For M.E. (Computer Science and Engineering with Specialization in Networks), open elective can be included in III semester. For the courses like Internet of Things and Machine Learning, the title of the courses may be changed with additional content in the syllabus, as these courses are offered in UG and PG programmes.

Resolved to Approve the above for B.Tech. Information Technology and M.E. (Computer Science and Engineering with Specialization in Networks) Degree Programmes.

### **ACM 01.02.07 - Department of Automobile Engineering**

To consider and approve the Curriculum of III to VIII semesters B.E. Automobile Engineering Degree Programme as passed in the BOS meeting held on 20.08.2020.

The members suggested to offer more courses on modern automobile technologies such as IoT, Communication Vehicles, and Autonomous Vehicles. The content of the Electrical Vehicles course should be verified with the course on Electrical Vehicles offered by the Department of Electrical and Electronics Engineering.

Resolved to Approve the Curriculum of III to VIII semesters B.E. Automobile Engineering Degree Programme.

### **ACM 01.02.08 - Department of Electronics and Instrumentation Engineering**

To consider and approve the Curriculum of III to VIII semesters B.E. Electronics and Instrumentation Engineering Degree Programmes passed in the BOS meeting held on 19.09.2020.

The members suggested to offer Theory cum Laboratory courses.

Resolved to Approve the Curriculum of III to VIII semesters B.E. Electronics and Instrumentation Engineering Degree Programme.

#### **ACM 01.02.09 - Department of Master of Computer Applications**

To consider and approve the Curriculum of I to IV Semester and the syllabus of I & II semester of Master of Computer Applications Degree Programme as passed in the BOS meeting held on 14.08.2020.

The members suggested to check the credit allocation for the courses with tutorial periods.

Resolved to Approve the Curriculum of I to IV Semesters and the syllabus of I & II semester of Master of Computer Applications Degree Programme.

#### **ACM 01.02.10 - Department of Management Studies**

To consider and approve the Curriculum of I to IV Semesters and the syllabus of I & II semester of Master of Business Administration Degree Programme as passed in the BOS meeting held on 20.08.2020.

The members clarified about the two streams of electives offered such as Marketing and Finance as mentioned in the curriculum.

Resolved to Approve the Curriculum of I to IV Semesters and the syllabus of I & II semester of Master of Business Administration Degree Programme.

#### **IV. ACM 01.03: Business brought forwarded by the Controller of Examinations:**

The Chairperson requested the Controller of Examinations (COE) Dr. P.R. Vijayalakshmi, HOD/CSE, to brief the activities of Examination System. The COE detailed about the members in the Examination Committee, Question Paper Scrutiny Committee and Result Passing Board. The COE also briefed the duties and responsibilities of various committee members, procedure to be followed in the Examination System, procedure for conduct of Examinations, Evaluation System and procedure.

To consider and approve the End Semester Examinations and Evaluation System to be followed from the Academic Year 2020-2021.

The following are the suggestions given by the members.

- i. The invigilators may be 100% internal members or with a minimum of 20 -30% external members.
- ii. The question paper scrutiny committee should include external members.
- iii. In view of Covid-19 pandemic, online mode of End Semester Examinations may be preferred.

The Chairperson pointed out that Anna University is conducting final semester Examinations through online. This has been directed to all affiliated colleges.

Resolved to Approve the End Semester Examinations and Evaluation System to be followed from the Academic Year 2020-21.

**V. ACM 01.04: Business brought by the Chairperson, Academic Council about the introduction of new UG programmes:**

To consider and recommend to the Governing Body, the introduction of new Undergraduate Programmes.

Chairperson proposed the following UG programmes.

- i. Artificial Intelligence and Data science
- ii. Electrical and Computer Engineering

Members forwarded to the Governing Body with the following suggestions.

- i. To recruit faculty members with expertise in the specific core domain.
- ii. Syllabus must be unique and on par with reputed Universities.

**VI. ACM 01.05: Any other matter:**

- i. The interdisciplinary projects can be encouraged in mini project.
- ii. Prerequisites may be given for the required courses.
- iii. The pattern of question paper may include MCQ (5 to 10 questions) which is useful for competitive examinations in addition to existing patterns.

The meeting was concluded with a vote of thanks by Dr. S.M. Kannan, HOD/EEE.



**Chairperson / Academic Council**

# K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM - 630 612.


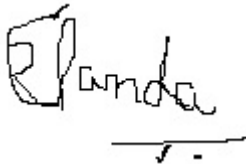
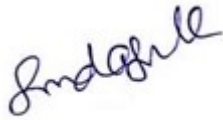
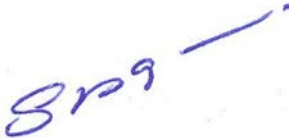
## Sivagangai District





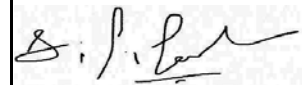


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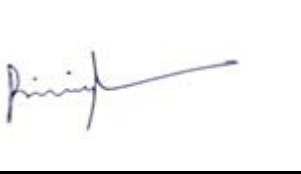
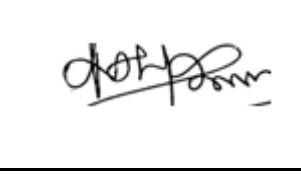
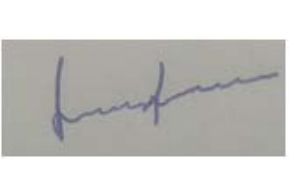
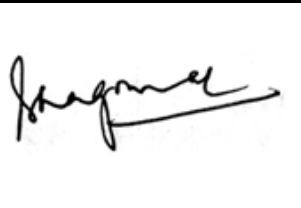



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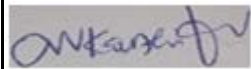
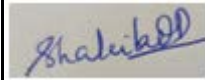




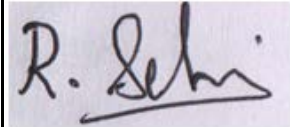
17.04.2021

Minutes of the second Academic Council meeting held on 17 April 2021 through online mode. Zoom Meeting ID: 585 980 3689, Passcode: z2GZMP, Date:17.04.2021, Time:11:00 AM

MEMBERS PRESENT			
S. No.	Name of the member	Category	Signature
1.	<b>Dr.A.V.Ramprasad</b> , Principal	Chairperson	
2.	<b>Dr.Rames Chandra Panda</b> Sr.Principal Scientist, Honorary faculty, Anna University, Chemical Engineering, CSIR-Central Leather research laboratory, Chennai – 600 020.	Anna University Nominee	
3.	<b>Dr.K.Sundareswaran</b> Senior Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Anna University Nominee	
4.	<b>Dr.Sishaj P Simon</b> Associate Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Anna University Nominee	

S. No.	Name of the member	Category	Signature
5.	<b>Dr.P.Asokan</b> Professor HAG, Department of Production Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Academician	
6.	<b>Dr.A.Antony Franklin</b> Associate Professor, Department of Computer Science and Engineering, Indian Institute of Technology, Hyderabad – 502 285.	Academician	
7.	<b>Dr.M.Manohar</b> 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	
8.	<b>Dr.S.J.Thiruvengadam</b> Professor and Dean (Academics), Thiagarajar College of Engineering, Madurai - 625 015.	Academician	
9.	<b>Mr. S.M. Manikandan</b> Chief Operating Officer, M/s.Aparajitha Software Services Pvt. Ltd., Madurai.	Industrialist	
10.	<b>Dr.P.Udhaya Kumar</b>	Chairman BoS / Department of Mechanical Engineering	
11.	<b>Dr.S.M.Kannan</b>	Member Secretary & Chairman BoS / Department of Electrical and Electronics Engineering	

S. No.	Name of the member	Category	Signature
12.	<b>Dr.V.Kejalakshmi</b>	Chairman BoS / Department of Electronics and Communication Engineering	
13.	<b>Dr.P.R.Vijayalakshmi</b>	Chairman BoS / Department of Computer Science and Engineering	
14.	<b>Dr.R.Alageswaran</b>	Chairman BoS / Department of Information Technology	
15.	<b>Dr.R.M.Satheesh Kumar</b>	Chairman BoS / Department of Automobile Engineering	
16.	<b>Prof.S.Nagammai</b>	Chairman BoS / Department of Electronics and Instrumentation Engineering	
17.	<b>Dr.P.Ganeshkumar</b>	Program Head / B.Tech, AIDS	
18.	<b>Dr.T.Jothimurugan</b>	Chairman BoS / Department of Management Studies	
19.	<b>Dr.MR.Ilango</b>	Chairman BoS / Department of Master of Computer Applications	

S. No.	Name of the member	Category	Signature
20.	<b>Dr.J.K.Subhashini</b>	Chairman BoS / S & H	
21.	<b>Prof.N.V.Karthikeyan</b>	HOD / Physics	
22.	<b>Prof. O.D. Shakila</b>	HOD / Chemistry	
23.	<b>Dr.A.Raviykkumar</b>	HOD / English	
24.	<b>Dr.M.R.Thansekhar</b>	Professor / Mechanical Engineering	
25.	<b>Dr.M.Raghini</b>	Associate Professor / Computer Science and Engineering	
26.	<b>Prof.T.R.Muthu</b>	Assistant Professor / Electronics and Communication Engineering	
27.	<b>Dr.R.Selvarani</b>	Associate Professor / Mathematics	

## **Minutes of Second Academic Council Meeting**

### **I. Introduction:**

The second Academic Council meeting was held on 17<sup>th</sup> April 2021 through online mode. Dr. A.V. Ramprasad, Chairperson, Academic Council, K.L.N College of Engineering welcomed the Anna University nominees, Experts and internal members.

The Chairperson thanked the members for their valuable guidance and information shared in the first Academic council meeting for the successful implementation of the Autonomous system from the Academic year 2020-2021. He briefed the agenda of the meeting and asked the member secretary, Academic council, to brief the minutes of the first Academic Council meeting.

Dr.S.M.Kannan, Member secretary, KLNCE, briefed the minutes of the first Academic Council meeting held on 26<sup>th</sup> September 2020. During the meeting, the members approved the following, after incorporating the suggestions given by them.

1. Regulations-2020 for B.E/B.Tech, M.E, MBA and MCA Degree Programmes to be followed from the Academic year 2020-2021.
2. Curriculum and syllabi of I & II semester B.E / B.Tech Degree Programmes to be followed from the Academic Year 2020-2021.
3. Curriculum of I to VIII semester B.E / B.Tech Degree Programmes of Mechanical Engineering, Electrical and Electronic Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Automobile Engineering, Electronics and Instrumentation Engineering, Information Technology to be followed from the Academic Year 2020-2021.
4. Curriculum of I to IV semester and Syllabus of I to II semester of M.E .Power Systems Engineering, M.E.Communication Systems and M.E. Computer Science and Engineering with Specialization in Networks.
5. Curriculum and Syllabus of I to IV semester MCA and MBA Degree programmes.



6. End Semester Examinations and Evaluation System to be followed from the Academic Year 2020-2021.

**ACM 02.01: Business brought forwarded by B Tech Programme Artificial Intelligence & Data Science**

**To consider and approve**

**The Curriculum of I to VIII semester and syllabus of I to II semester for B.Tech program in Artificial Intelligence and Data Science as passed in the BOS /IT meeting held on 16.04.2021.**

The members suggested the following.

1. Curriculum and Syllabus of higher learning Institutes like IITs,IISC,NITs, foreign Universities may be referred for the above program and updated accordingly in coming meetings

2. More Mathematical, Statistical and analytical courses may be included in the curriculum.

3. Recent software tools/Analytical tools may be included as and when required in the later semesters based on the need of the industry.

4. The Machine Learning topics in Unit-V- of Data Science course can be shifted to Machine Learning core course, because it needs more mathematical knowledge.

5. Applications of AI can be studied in different courses instead of studying all those components in a single course.

6. Economics course should be included in the curriculum.

7. Recruitment of ML domain specific faculty or to train the existing faculty.

8. Train faculty from Mechanical, EEE and ECE to handle courses of Applications of AI in multidisciplinary areas.

9. Courses on Operation Research Data filtering, Image processing, Medical imaging, Soft computing techniques utilizing Genetic Algorithm, Fuzzy and PSO may be included with analytical tools in the higher semesters.

10. Ensure prerequisite for the courses like Mobile communication and Data communication and Networks

11. Practical components for Artificial Intelligence & Deep learning should be included in the curriculum.

12. Exclusive Machine Learning, Artificial Intelligence, Deep learning laboratory courses are required.

13. Recent publications of Text and Reference books to be given in the syllabus.

The Chairman, BoS and Program head, informed that the AICTE curriculum and few reputed Universities were referred for framing the Curriculum and Syllabus. Also the minutes of the BoS meeting was presented for approval in this Meeting. Few faculty members were already been trained for TIER1 international certifications from the department of IT under the domain artificial intelligence and also through MHRD courses under Data science domain. We also have faculty members in the department of Mechanical Engg specialized in the areas of Mechatronics, Robotics to associate with the proposed new course. The suggestions of the members will be suitably incorporated during the forthcoming meeting for higher semesters with the approval of the members, he added.

**Resolved to Approve the above for B.Tech-Artificial Intelligence and Data Science Degree Programme.**

**ACM 01.03: Business brought forwarded by the Controller of Examinations:**

The Chairperson requested the Controller of Examinations (COE) Dr. P.R. Vijayalakshmi HOD/CSE, to brief the activities of Examination System.

The CoE presented the details of End semester examinations of November/December 2020, under proctored online mode held during January/February 2021 as per the guidelines of

Anna University, Chennai. Accordingly Multiple Choice Question (MCQ) type Examination was conducted for III, V and VII semester students of B.E./B.Tech, Degree programmes, (both regular and Arrear examinations) (Regulation 2017, AU, Chennai), III Semester M.E., MBA, III and V semester MCA Degree programme, during January 2021 and I semester students of B.E./B.Tech Degree programmes (Regulation 2020) during February 2021.

The Question pattern followed as per the guidelines of Anna University, as below:

Type: MCQ, Marks: 60, Duration: One hour

Part-A - (30 X 1 = 30 marks),

Part-B - (15 X 2 = 30 marks).

The CoE presented pass percentage of III, V and VII semester B.E./B.Tech programmes semester wise and branch wise. Also, the pass percentage of III semester M.E., MCA, MBA, and V semester MCA programs were presented.

Members concerned for improvement in the lower pass percentage of certain branches, also to analyse its root cause and suggested few tools to improve without compromising the quality. The Chairperson acknowledged and briefed about the steps taken to improve the pass percentage in future for a few courses and to provide enough exposure in the MCQ pattern.

The meeting was concluded with vote of thanks by Dr.V.Kejalakshmi, HoD/ECE.

**Chairperson / Academic Council**




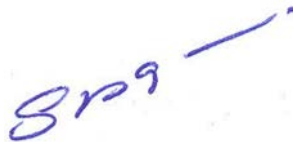
**K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM - 630 612.****Sivagangai District****(An Autonomous Institution, Affiliated to Anna University, Chennai)**



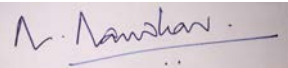


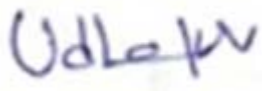

Ref: KLNCE/Autonomous/Academic Council /2021




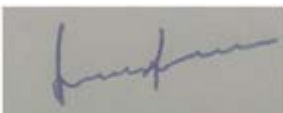


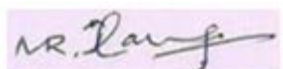

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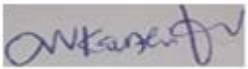
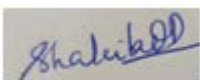

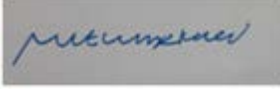


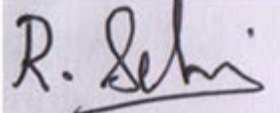
Minutes of the third Academic Council meeting held on 31<sup>st</sup> July 2021 through online mode.

Zoom Meeting ID: 845 9504 0245, Passcode: 01858, Date: 31.07.2021, Time: 11:00 A.M.

<b>MEMBERS PRESENT</b>			
<b>S. No.</b>	<b>Name of the member</b>	<b>Category</b>	<b>Signature</b>
1.	<b>Dr.A.V.Ramprasad</b> , Principal	Chairperson	
2.	<b>Dr.Rames Chandra Panda</b> Sr.Principal Scientist, Honorary faculty, Anna University, Chemical Engineering, CSIR-Central Leather research laboratory, Chennai – 600 020.	Anna University Nominee	
3.	<b>Dr.K.Sundareswaran</b> Senior Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Anna University Nominee	
4.	<b>Dr.Sishaj P Simon</b> Associate Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Anna University Nominee	

S. No.	Name of the member	Category	Signature
5.	<b>Dr.P.Asokan</b> Professor HAG, Department of Production Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Academician	
6.	<b>Dr.A.Antony Franklin</b> Associate Professor, Department of Computer Science and Engineering, Indian Institute of Technology, Hyderabad – 502 285.	Academician	
7.	<b>Dr.M.Manohar</b> 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	
8.	<b>Dr.S.J.Thiruvengadam</b> Professor and Dean (Academics), Thiagarajar College of Engineering, Madurai - 625 015.	Academician	
9.	<b>Mr. S.M. Manikandan</b> Chief Operating Officer, M/s.Aparajitha Software Services Pvt. Ltd., Madurai.	Industrialist	
10.	<b>Dr.P.Udhaya Kumar</b>	Chairman BoS / Department of Mechanical Engineering	
11.	<b>Dr.S.M.Kannan</b>	Member Secretary & Chairman BoS / Department of Electrical and Electronics Engineering	

S. No.	Name of the member	Category	Signature
12.	<b>Dr.V.Kejalakshmi</b>	Chairman BoS / Department of Electronics and Communication Engineering	
13.	<b>Dr.P.R.Vijayalakshmi</b>	Chairman BoS / Department of Computer Science and Engineering	
14.	<b>Dr.R.Alageswaran</b>	Chairman BoS / Department of Information Technology	
15.	<b>Dr.R.M.Satheesh Kumar</b>	Chairman BoS / Department of Automobile Engineering	
16.	<b>Prof.S.Nagammai</b>	Chairman BoS / Department of Electronics and Instrumentation Engineering	
17.	<b>Dr.T.Jothimurugan</b>	Chairman BoS / Department of Management Studies	
18.	<b>Dr.MR.Ilango</b>	Chairman BoS / Department of Master of Computer Applications	
19.	<b>Dr.P.Ganeshkumar</b>	Professor / Information Technology	

S. No.	Name of the member	Category	Signature
20.	<b>Dr.J.K.Subashini</b>	Chairman BoS / S & H	
21.	<b>Prof.N.V.Karthikeyan</b>	HOD / Physics	
22.	<b>Prof. O.D. Shakila</b>	HOD / Chemistry	
23.	<b>Dr.A.Raviekkumar</b>	HOD / English	
24.	<b>Dr.M.R.Thansekhar</b>	Professor / Mechanical Engineering	
25.	<b>Dr.M.Raghini</b>	Associate Professor / Computer Science and Engineering	
26.	<b>Prof.T.R.Muthu</b>	Assistant Professor / Electronics and Communication Engineering	
27.	<b>Dr.R.Selvarani</b>	Associate Professor / Mathematics	

## **Minutes of Academic Council Meeting**

The meeting started with the welcome address by the Chairman of the Academic Council, by welcoming the members and Special invitees of the Academic Council. The chairman addressed about the special meeting held on 17<sup>th</sup> April, 2021 for the program B.Tech Artificial Intelligence & Data Science and briefed the various agenda items to be presented and about the Business to be carried out in the Academic Council meeting.

### **ACM 03.01: Business brought forwarded by the Chairperson, Academic Council:**

Ratification of previous Academic Council meeting minutes. All the minutes of the previous Academic Council were unanimously ratified.

### **To consider and approve the amendments in KLNCE R 2020 Regulation clause 4.9(UG) & clause 3.7(PG)- ONLINE courses**

The chairman presented the changes made in Regulation 2020 in clause 4.9 of UG programs and clause 3.7 of PG programs regarding online courses. The following statement is added in the clause mentioned.

“The students need to obtain certification or credit to become eligible for writing end semester examination to be conducted by controller of examinations”.

### **Resolved to Approve the amendments in KLNCE R 2020 Regulation clause 4.9(UG) & clause 3.7(PG)- ONLINE courses**

### **ACM 03.02: Business brought forwarded by the Board of Studies:**

#### **ACM 03.02.01 DME: Department of Mechanical Engineering**

#### **To consider and approve**

- i. The curriculum and syllabus of III & IV semesters of B.E Mechanical Engineering Degree Programme.
- ii. The Curriculum of V to VIII semesters of B.E Mechanical Engineering Degree Programme.

as passed in the BOS meeting held on 03/05 /2021.

The Department of Mechanical Engineering needs to include NPTEL e-resources in the syllabus.

It has been resolved to include available NPTEL e-resources in the Lecture Schedule.

### **Resolved to Approve the above for B.E Mechanical Engineering Degree Programme.**



**ACM 03.02.02:DEE : Department of Electrical and Electronics Engineering**

**To consider and approve**

- i. The curriculum and syllabus of III & IV semesters of B.E Electrical and Electronics Engineering Degree Programme.
- ii. The Curriculum of V to VIII semesters of B.E Electrical and Electronics Engineering Degree Programme.
- iii. The Curriculum and the syllabus of III & IV semesters of M.E (Power Systems Engineering) Degree Programme.

as passed in the BOS meeting held on 03/05/2021.

Prerequisites for the courses can be included based on the previous courses studied.

**Resolved to Approve the above for B.E Electrical and Electronics Engineering and M.E (Power Systems Engineering) Degree Programmes.**

**ACM 03.02.03 DEC : Department of Electronics and Communication Engineering**

**To consider and approve**

- i. The curriculum and syllabus of III & IV semesters of B.E Electronics and Communication Engineering Degree Programme.
- ii. The Curriculum of V to VIII semesters of B.E Electronics and Communication Engineering Degree Programme.
- iii. The Curriculum and the syllabus of III & IV semesters of M.E (Communication Systems) Degree Programme.

as passed in the BOS meeting held on 10/05/2021.

- More number of courses in open electives can be added.
- Meritorious UG candidates are permitted to study PG level courses.
- To introduce intern/one credit courses from 4<sup>th</sup> semester onwards.

The above suggestions may be incorporated in the next revision of Regulation.

**Resolved to Approve the above for B.E Electronics and Communication Engineering and M.E (Communication Systems) Degree Programmes.**

**ACM 03.02.04DCS: Department of Computer Science and Engineering**

**To consider and approve**

- i. The curriculum and syllabus of III & IV semesters of B.E Computer Science and Engineering Degree Programme
- ii. The Curriculum of V to VIII semesters of B.E Computer Science and Engineering Degree Programme

as passed in the BOS meeting held on 05 /07/2021.

The Department of Computer Science and Engineering can include recent publication of text books.

**Resolved to Approve the above for B.E Computer Science and Engineering Degree Programme.**

**ACM 03.02.05 DIT: Department of Information Technology**

**To consider and approve**

- i. The curriculum and syllabus of III & IV semesters of B.Tech Information Technology Degree Programme
- ii. The Curriculum of V to VIII semesters of B.Tech Information Technology Degree Programme
- iii. The Curriculum and the syllabus of III & IV semester of M.E (Computer Science and Engineering with Specialization in Networks) Degree Programme

as passed in the BOS meeting held on 14 /06/2021.

The department of Information Technology can give course-wise assessment pattern for the courses of UG and PG programmes.

The above suggestion may be incorporated in the next revision of Regulation.

**Resolved to Approve the above for B.Tech Information Technology and M.E (Computer Science and Engineering with Specialization in Networks) Degree Programmes.**

**ACM 03.02.06 DAE: Department of Automobile Engineering**

**To consider and approve**

- i. The curriculum and syllabus of III & IV semesters of B.E Automobile Engineering Degree Programme.
- ii. The Curriculum of V to VIII semesters of B.E Automobile Engineering Degree Programme.

as passed in the BOS meeting held on 26/06/2021.

The Department of Automobile Engineering can group elective courses based on domain specialization.

**Resolved to Approve the above for B.E Automobile Engineering Degree Programme.**

**ACM 03.02.07 DEI : Department of Electronics and Instrumentation Engineering**

**To consider and approve**

- i. The curriculum and syllabus of III & IV semesters of B.E Electronics and Instrumentation Engineering Degree Programme.
- ii. The Curriculum of V to VIII semesters of B.E Electronics and Instrumentation Engineering Degree Programme.

as passed in the BOS meeting held on 12 /05 /2021.

Professional Ethics in Engineering course in the professional elective list can be replaced by one core course, as it is available in the mandatory course Universal Human Value.

**Resolved to Approve the above for B.E Electronics and Instrumentation Engineering Degree Programme.**

**ACM 03.02.08 DBA: Department of Master of Business Administration**

**The curriculum and Syllabus of I to IV Semesters of MBA degree programme was already approved in the first Academic Council Meeting.**

**ACM 03.02.09 DCA: Department of Master of Computer Applications**

**To consider and approve**

The bridge courses for non IT students admitted for the academic year 2020-2021.  
as passed in the BOS meeting held on 28 /07/2021.

**Resolved to Approve the above for Master of Computer Applications Degree Programme.**

**ACM 03.03: Business brought forwarded by the Controller of Examinations:**

The Chairperson requested Dr. P.R. Vijayalakshmi HOD/CSE, and Controller of Examinations to brief the proctored online Examination modalities. For the conduct of end semester examination the guidelines of Anna University were followed. The end semester examinations for I & VIII semester UG and I semester PG were conducted through online mode. The examination pattern was MCQ with one hour duration. The end semester examinations for II and III year were conducted through online with descriptive pattern. Re-exam for UG and PG programmes also have been conducted as per Anna University Guidelines.

The online proctoring was done by faculty members for every fifty students. The end semester examination for the Project course of UG programme was conducted in college campus. The project work for PG programme was conducted through online mode.

The Results of I semester UG and PG programmes and VIII semester UG programmes as passed in Result Passing board held on 11/06/2021 were presented by CoE.

**To consider and approve the End Semester Examinations for online courses to be followed with three hours MCQ pattern from the Academic Year 2021-2022.**

**Resolved to conduct the End Semester Examinations for online courses to be followed from the Academic Year 2021-2022.**

**ACM 03.04: Value Added Courses and Open Electives:**

**To consider and approve the guidelines and forms for value added courses, online courses and list of open elective courses.**

**Resolved to Approve the above from the Academic Year 2021-2022.**

The following are the suggestions given by Nominees and Experts

1. For few courses, text/Reference books may be revised in B.E- EEE programme.
2. For B.E- ECE programme, the last unit in the course “Principles of Digital signal Processing” can be replaced with Multi rate Signal processing topic instead of Digital Signal Processors.
3. For B.E. CSE and B.Tech-IT programmes, in the Discrete Mathematics course, the title of the Unit – III can be revised.
4. B.Tech-IT programme has to include IT specific course in the Fifth semester. The elective course Natural Language Processing in M.E programme may be replaced with other emerging Technology course. For ‘Protocols and Architectures for Wireless Sensor Networks’ course, WSN nodes can be purchased to demonstrate Tiny OS concepts. Also, this course may be converted to Theory cum Practical course in the next revision.
5. The department of Automobile Engineering can include new courses in open elective such as Autonomous Vehicles etc.
6. The title of the course Electrical and Electronic Instrumentation may be revised.
7. The Open Elective courses like Human Rights offered by Engineering departments can be handled by the faculty of Science and Humanities.
8. The online invigilation duty can be monitored by the faculty for every 25 to 30 students.

The above suggestions are resolved and incorporated.

The meeting was ended with vote of thanks by Dr. T. Jothimurugan, Director/MBA.



**Signature of the Chairman**

**CC to ACM Members**

**CC to File**

## KLNCE R-2020 Amendments

EXISTING	PROPOSED
<p>Online Courses (UG-Clause 4.9 &amp; PG-Clause 3.7)</p> <p>Students may be permitted to undergo online courses (which are provided with certificates) with the approval of Head of the Department.</p> <p>Students may be permitted to credit any approved online course instead of elective courses subject to a maximum of three credits for each course. The approved list of online courses will be provided by Academic council from time to time. 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.</p> <p>Copies of the online course certificates should be submitted to the Head of the Department.</p>	<p>Online Courses (UG-Clause 4.9 &amp; PG-Clause 3.7)</p> <p>Students may be permitted to undergo online courses (which are provided with certificates) with the approval of Head of the Department.</p> <p>Students may be permitted to credit any approved online course instead of elective courses subject to a maximum of three credits for each course. The approved list of online courses will be provided by Academic council from time to time. <b>The student needs to obtain certification or credit to become eligible for writing the End Semester Examination to be conducted by Controller of Examinations.</b> 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.</p> <p>Copies of the online course certificates should be submitted to the Head of the Department.</p>

## ANNEXURE II

### Guidelines for conducting value added courses

A Value added course offered by the department should not be a course listed in the curriculum of any programme offered in the Institution.

#### Course Structure:

1. The request for approval of syllabus along with the schedule for the value added course should be communicated to Head Academic courses at least 30 days before the date of commencement of the course. The Syllabus (15 / 30 periods), Schedule and the Details of Faculty handling the course approved by Chairman Academic Council.
  - a. The course offered should not be the same as any course listed in the curriculum of the respective programme/ or any other programme offered in the institution.
  - b. The value added courses may be also conducted during weekends / vacation period.
  - c. The course can be offered only for the students studying V/VI/VII semester of UG programmes.
  - d. Industry experts / eminent academicians from other Institutes are eligible to offer the value added course.
  - e. The course can be offered only if there are atleast 5 students opting for it.
  - f. The course can either be a theory course or a theory course with practical components.
  - g. The students may be allowed to take value added courses offered by other departments after obtaining permission from Head of the Department offering the course.

#### Duration

2. The duration of value added courses is 15 (30) periods.

For the one (two) credit courses either 15 (30) periods of theory or a combination of theory and laboratory may be offered. Where, 2 periods of laboratory = 1 period of theory.

#### Evaluation

3. The value added courses shall carry 100 marks and shall be evaluated through internal assessments only.
  - a. Two Assessments shall be conducted preferably one in the middle and the other at the end of the course by the Department concerned.
  - b. The duration of assessment is one hour each.
  - c. The total marks obtained in the tests shall be converted to 100 marks and rounded to the nearest integer.

- d. 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 list of students along with the marks and the grades earned may be forwarded to the Controller of Examinations.
- e. The senior faculty member nominated for the course is responsible for maintaining and processing the records with regard to assessment marks and results.

### **Passing Requirement and Grading**

- 4. The passing requirement for value added courses shall be 50% of the marks prescribed for the course (Internal assessment only)
  - a. The grades O, A+, A, B+, B obtained for the one/two credit shall figure in the Mark sheet under the title 'Value Added Courses'. The other grades RA, SA will not figure in the mark sheet.
  - b. The credits earned through value added courses shall not be considered for calculating GPA and CGPA.
  - c. The credits earned through value added courses shall not be considered for classification of degree.

### **Maximum Number of Courses**

- 5. A student can earn a maximum of 2 credits during the entire programme of study by attending one two credit course or two one credit courses which would be over and above the required maximum number of credits for the award of the degrees.



**APPLICATION FOR CONDUCTING VALUE ADDED COURSES-FORM I**

1. Name of the Department :
2. UG programme :
- 3. DETAILS OF THE VALUE ADDED COURSES :**
  - a. Name of the Value Added Courses :
  - b. Type of Value Added Courses (Theory / Lab / Lab integrated Theory/others)
  - c. Short Description Enclosure 1 enclosed - YES / NO
  - d. Syllabus including Reference Enclosure 2 enclosed - YES /NO
  - e. Name of the Coordinator :
  - f. Date of conduct of value added course :
- 4. TARGET AUDIENCE :**

Semester (indicate if more than one) Others
- 5. DETAILS OF FACULTY HANDLING THE COURSE :**
  - a. Name of the Faculty handling the Value Added course :
  - b. Details including designation and expertise Enclosure 3 enclosed - YES /NO
  - c. Contact details  
Email ID :  
Phone No :
6. **Tentative Time Table** including dates of internal assessments : Enclosure 4 enclosed - YES / NO
7. Number of students opting for the course:
8. Department Consultative Committee- Minutes : Enclosure 5 enclosed - YES / NO
9. Name and Designation of the Coordinator:

**Head of the Department**  
(with date & seal)

**Head -Academic Courses**

**Controller of Examinations**

**DETAILS OF COMPLETION OF VALUE ADDED COURSE-FORM II**

1. Name of the Department :
2. Name of the Value Added Course offered :
3. Name of the Faculty offered the course : Academic / Industry
4. Name of the Coordinator :  
Email :  
Contact :
5. Date of Conduct of Value Added Course :

Details of students attended the course:

<b>S.No</b>	<b>Name of the student</b>	<b>Reg. No.</b>	<b>Programme</b>	<b>Semester</b>	<b>Marks</b>	<b>Grade</b>

**Faculty Handling the Course (if Available)**

**Class Committee Chairperson/  
Senior Faculty nominated by HOD**

**Coordinator**

**Head of the Department**  
**(with date & seal)**

### ANNEXURE III

#### Guidelines for online courses

- The duration of the online course is minimum of 8 weeks.
- The approved list of online courses will be provided by the standing committee of the institution from time to time.
- The student may be permitted to credit one online course instead of one professional elective course / open elective courses.
- Online course with three credits can be considered for one elective course.
- The students may enroll any one of the online courses listed by standing committee. They may enroll in any of the semesters from III to VII Sem of their study. They shall enroll in NPTEL/SWAYAM/etc., and earn the certification in that semester of study from the competent body.
- The student shall write the end semester examination conducted by CoE of college in the next semester by registering the course in college. The details of students who earned certification and are willing to write the end semester examination shall be submitted to CoE through Chair Person within one month from the commencement of classes. The student shall be permitted to write the exam only if he/she got the certification and register for the end semester examination.
- The evaluation for the online course is done through end semester examination only. There is no internal evaluation. The end semester examination will be conducted for three hours duration with MCQ pattern. The marks earned by the student in the end semester examination shall be considered for grade calculation of the online course. The student shall earn minimum 50% marks in end semester examination for the successful completion of the online course.
- After successful completion of the end semester examination, the student shall apply for credit transfer and shall drop any one elective course offered in the subsequent semesters. The same shall be informed to CoE through the Chair-Person within one month from the commencement of classes. In case, if any student got the online certification in VII semester, he/she may be permitted to drop any one elective course, offered in VIII semester, with the following condition. He/she should write the end semester examination for online course in VIII semester and should successfully complete the course for credit transfer of online course instead of elective course.
- The online line course name along with credit and grade earned by the student will be transferred to the marksheet of the student.

**APPLICATION FOR CONDUCTING ONLINE COURSE-FORM-III**

1. Name of the Department :
2. Name of the Online Course offered with  
course provider Eg.,Swayam, NPTEL etc., :
3. Name and course code of Professional  
elective Course for which online  
course is credited :
4. Name of the Coordinator :
- Email :
- Contact :

**Students details enrolled for online course:**

<b>S.No</b>	<b>Name of the student</b>	<b>Roll number</b>	<b>Year &amp; Semester</b>

**Coordinator****Head of the Department  
(With date and seal)****Head – Academic Courses****Controller of Examinations**