

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

(An Autonomous Institution affiliated to Anna University, Chennai)

**DEPARTMENT OF MECHANICAL ENGINEERING**

Ref: KLNCE/BoS/MECH/2020

18.08.2020

**Minutes of First Board of Studies Meeting**

The First Board of Studies meeting of Mechanical Engineering Department was conducted on 18.08.2020 (Tuesday) at 11.45 a.m. through ONLINE MODE.

**Meeting Link:**

<https://us02web.zoom.us/j/5897343816?pwd=Z3daVUhqSXFsMk5MOXIYUkNUOEExNdz09>

**Members Present:**

<b>S. No.</b>	<b>Name, Designation and Institute Details</b>	<b>Details of Members</b>
1	<b>Dr.P.Udhayakumar</b> Prof. & HOD, Department of Mechanical Engineering, K.L.N. College of Engineering, Pottapalayam – 630 612.	<b>CHAIRMAN</b>
2	<b>Dr.R.B.Anand</b> Professor, Department of Mechanical Engineering, National Institute of Technology, Tiruchirapalli – 620 015.	<b>ANNA UNIVERSITY NOMINEE</b>
3	<b>Dr.G.Saravana Kumar</b> Professor, Department of Engineering Design, Indian Institute of Technology Madras Chennai	<b>SUBJECT EXPERT</b> (Other than Parent University)
4	<b>Dr. T. Ramesh</b> Associate Professor, Department of Mechanical Engineering, National Institute of Technology, Tiruchirapalli – 620 015.	<b>SUBJECT EXPERT</b> (Other than Parent University)
5	<b>Dr.Balakrishnan Gopal</b> Engineering Manager, Caterpillar India Pvt Ltd Chennai.	<b>INDUSTRY EXPERT</b>
6	<b>Dr. D. Threshkumar</b> Principal. PTR College of Engineering and Technology, Madurai	<b>POST GRADUATE MERITORIOUS ALUMNI</b>
7	Dr.M.R.Thansekhar, Professor / Mech	<b>INTERNAL MEMBER</b>

8	Dr.A.N.Balaji, Professor / Mech	<b>INTERNAL MEMBER</b>
9	Dr.P.Sabarinath ASP/Mech	<b>INTERNAL MEMBER</b>
10	Dr. D. Satheeshpandian ASP/Mech	<b>INTERNAL MEMBER</b>
11	Dr .A. Hemalatha ASP/Mech	<b>INTERNAL MEMBER</b>
12	Dr.C. Anbumeenakshi ASP/Mech	<b>INTERNAL MEMBER</b>
13	Dr. R. Ashok Kumar AP(SG)/Mech	<b>INTERNAL MEMBER</b>
14	Dr.S.Porselvi AP(SG)/Mech	<b>INTERNAL MEMBER</b>
15	Dr. D. Muthukrishnan AP(Sr.Gr) / Mech	<b>INTERNAL MEMBER</b>
16	Mr. E.V.Ganeshbabu AP/Mech	<b>INTERNAL MEMBER</b>
17	Mr. S. Nallathambi AP/Mech	<b>INTERNAL MEMBER</b>
18	Mr. N.Nagasubramanian AP/Mech	<b>INTERNAL MEMBER</b>
19	Mr.M. Mohanraj AP/Mech	<b>INTERNAL MEMBER</b>
20	Dr. K.J. Nagarajan AP/Mech	<b>INTERNAL MEMBER</b>
21	Dr.G.R.Raghav AP/Mech	<b>INTERNAL MEMBER</b>
22	Mr.T. Samynathan AP/Mech	<b>INTERNAL MEMBER</b>
23	Mr.T.L.Vijayakumar AP/Mech	<b>INTERNAL MEMBER</b>
24	Mrs.B. Devi AP/Mech	<b>INTERNAL MEMBER</b>
25	Dr.R. Pandiarajan AP/Mech	<b>INTERNAL MEMBER</b>
26	<b>Dr.A.V. Ramprasad</b> Principal, K.L.N. College of Engineering, Pottapalayam – 630 612.	<b>SPECIAL INVITEE</b>
27	<b>Dr.R. Alageswaran</b> IQAC Co-ordinator, K.L.N. College of Engineering, Pottapalayam – 630 612.	<b>SPECIAL INVITEE</b>

On behalf of the Management, Principal and Department of Mechanical Engineering, Dr.P.Udhaya kumar, Prof.& HOD, Chairman, Board of Studies of Mechanical Engineering Department welcomed the Anna University Nominee, Subject Experts (Other than Parent University), Industry Expert, Post Graduate Meritorious Alumni, Internal Members of Mechanical Engineering Department and Special Invitees.

The Chairman, BoS of Mechanical Engineering Department presented the following as per the following agenda.

1. Presentation of B.E. (Mech. Engg.) Program – I to VIII semesters curriculum (proposed) for the students admitted from the Academic Year 2020-21.
2. Presentation of Syllabus for Mechanical Engineering courses offered in the First and Second semester of B.E. / B.Tech Degree Programs - B.E Mechanical Engineering, B.E. Electrical and Electronics Engineering, B.E. Electronics and Communication Engineering, B.E. Computer Science and Engineering, B.E. Automobile Engineering, B.E. Electronics and Instrumentation Engineering and B.Tech. Information Technology.

After the presentation, the following suggestions were given by the various Experts.

- Total Credit 182 is slightly higher and hence suggested to reduce as per the AICTE UG Model Curriculum
- To reduce credit from 4 to 3 for the subject 'English for Technical Communication' in I Semester and 'Advanced Technical Communication' in II Semester.
- To concentrate more on practical aspects rather than study of tools in 'Industrial Practices Workshop' in I Semester
- To include Basic Engineering Courses such as 'Engineering Mechanics', Strength of Materials and Strength of Materials Laboratory in II and III Semester.
- To rename the subject name 'Metallurgy, Metrology and Quality Control' course as 'Metrology and Quality Control' and Metallurgy may be accommodated in Manufacturing Technology course in IV Semester.
- To combine the syllabus of 'Engineering Thermodynamics', 'Applied Thermodynamics' and 'Thermal Engineering' into two subjects such as 'Engineering Thermodynamics in III Semester and Thermal Engineering in IV Semester.
- To rename the subject name 'CAD/CAM & Robotics' course as 'CAD/CAM' in V Semester and offer 'Industrial Robotics' as a Professional Elective Course.
- To include the Computational Fluid Dynamics Laboratory practices in Computer Aided Simulation and Analysis Laboratory (VI Semester).

- To change 'Industrial Engineering' course from VI Semester Core Course to Professional Elective Course.
- To reduce the total credits in VII Semester so as to enable the students to have placement training activities.
- To provide only elective courses in VIII Semester so that the students may undergo for internship in industries.
- To introduce 'Data analytics for Mechanical Engineers' as a Professional Elective Course.
- To introduce recent advancements in automotive sector like Autonomous and Electronic Vehicle as an Open Elective Course.

**Based on the suggestions given by the members, it is resolved to approve the R2020 B.E. (Mech. Engg.) curriculum with the following modifications.**

- Total Credits of B.E. (MECH) – I to VIII semesters has been reduced from **182 to 170** in line with AICTE model curriculum.
- Credit for 'English for Technical Communication' and 'Advanced Technical Communication' has been reduced.
- More experiments are included in 'Industrial Practices Workshop' in I Semester.
- Basic Engineering Courses such as 'Engineering Mechanics' has been moved from third semester to second semester and Strength of Materials and Strength of Materials Laboratory has been moved from fourth semester to third semester
- 'Metallurgy' part is removed from 'Metallurgy, Metrology and Quality Control' course and included in 'Manufacturing Technology'.
- The courses 'Applied Thermodynamics' and 'Thermal Engineering' are combined and it is offered as 'Thermal Engineering' in 4<sup>th</sup> semester. 'Heat and Mass Transfer' is moved to 5<sup>th</sup> semester and 'Automotive Technology' is introduced in 6<sup>th</sup> semester.
- 'Robotics' part of 'CAD/CAM & Robotics' course is removed and 'Industrial Robotics' offered as Professional elective course in 7<sup>th</sup> semester
- Computational Fluid Dynamics Laboratory practices are included in Computer Aided Simulation and Analysis Laboratory (VI Semester).
- 'Industrial Engineering' course is offered as Professional Elective Course.

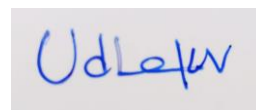


- Total credits in VII Semester are reduced from 21 to 18 to enable the students to prepare placement activities.
- New elective named 'Data Analytics for Mechanical Engineers' is offered in VII Semester.
- Only elective courses are offered in VIII Semester to enable the students to undergo Project training/ Internship.

As per the directions of UGC and guidance of Anna University Chennai, Dr. P. Udhayakumar, Chairman / BoS, Mechanical Engineering Department requested the BoS members to permit him to recommend the list of examiners both for Question Paper Setting and Valuation in Autonomous Examination Pattern.

Board of Studies recommended the above resolutions to be presented in the **Academic Council for further approval.**

Dr.D.Satheeshpandian, Associate Prof. / Mech proposed the Vote of Thanks.



**Dr.P. Udhayakumar**  
**Professor & Head/ Mech. Engg**  
**Chairman /BoS**

Copy to Governing Body  
Academic Council  
Coordinator/IQAC  
Principal  
File

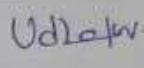
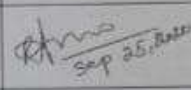
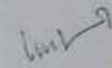
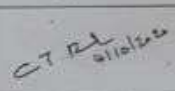
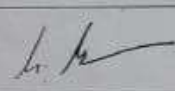
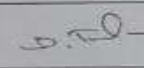
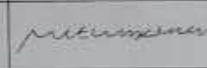

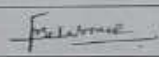
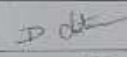
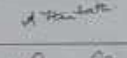
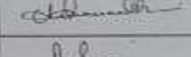
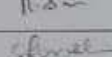
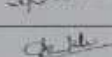
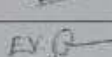
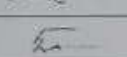



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**DEPARTMENT OF MECHANICAL ENGINEERING**

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
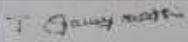
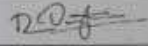



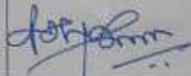
18.08.2020

**Minutes of First Board of Studies Meeting**

**Members Present:**

S. No.	Name, Designation and Institute Details	Details of Members	Signature
1	Dr.P.Udayakumar Prof. & HOD, Department of Mechanical Engineering, K.L.N. College of Engineering, Pottapalayam – 630 612.	CHAIRMAN	
2	Dr.R.B.Arand. Professor, Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli – 620 015.	ANNA UNIVERSITY NOMINEE	
3	Dr.G.Saravana Kumar Professor, Department of Engineering Design, Indian Institute of Technology Madras Chennai	SUBJECT EXPERT (Other than Parent University)	
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16	Mr. E.V.Ganeshbabu AP/Mech	INTERNAL MEMBER	
17	Mr. S. Nallathambi AP/Mech	INTERNAL MEMBER	
18	Mr. N.Nagasubramanian AP/Mech	INTERNAL MEMBER	
19	Mr.M. Mohanraj AP/Mech	INTERNAL MEMBER	

Exam Cell: Controller of Exams

20	Dr. K.J. Nagarajan AP/Mech	INTERNAL MEMBER	
21	Dr.G.R.Raghav AP/Mech	INTERNAL MEMBER	
22	Mr.T. Samynathan AP/Mech	INTERNAL MEMBER	
23	Mr.T.L.Vijayakumar AP/Mech	INTERNAL MEMBER	
24	Mrs.B. Devi AP/Mech	INTERNAL MEMBER	
25	Dr.R. Pandiyarajan AP/Mech	INTERNAL MEMBER	
26	Dr.A.V. Ramprasad Principal, K.L.N. College of Engineering, Pottapalayam - 630 612.	SPECIAL INVITEE	
27	Dr.R. Alageswaran IQAC Co-ordinator, K.L.N. College of Engineering, Pottapalayam - 630 612.	SPECIAL INVITEE	



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POTTAPALAYAM - 630 612**

*An Autonomous Institution*

**(Approved by AICTE, New Delhi & Affiliated to Anna University,  
Chennai)**

**(An ISO 9001: 2015 Certified Institution)**

**(Accredited by NBA, New Delhi for B.E. Mech, EEE, ECE, CSE B.Tech. IT &  
Accredited with B++ Grade by NAAC, Bengaluru)**

**(Approved Research Centre for Dept. of Mech, EEE, ECE, CSE by Anna  
University, Chennai)**



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**K.L.N. Sourashtra College of Engineering Council  
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**Minutes of the First  
Board of Studies (BoS) Meeting for the  
UG and PG Programme  
Degree: B.E., ECE  
Degree: M.E., Communication Systems**

*Date of the Meeting: 07.08.2020*

*Online Platform: G-Meet*

*Time: 02.00 pm*



### First BoS Meeting Agenda




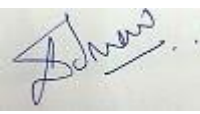


**Date: 07.08.2020 (Friday) | Time: 02.00 PM| Online Platform: G-Meet**



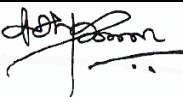
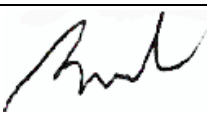
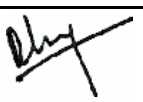







**G-Meet Link: <https://meet.google.com/fst-gcmt-isn>**



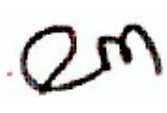

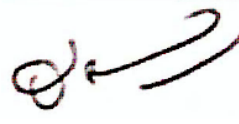
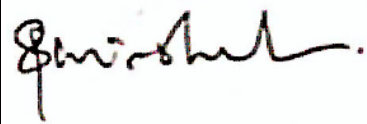
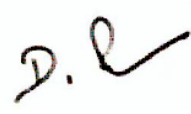
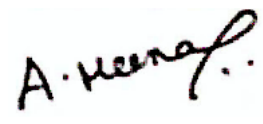
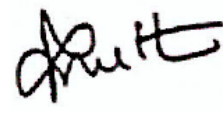

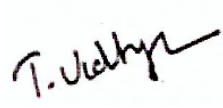
Welcome Address	Dr.A.V.Ramprasad, Principal Professor /ECE, KLNCE
Introduction of Anna University Nominee , External Expert Members , and Internal Members	Chairman: Dr.V.Kejalakshmi, Professor & Head/ECE, KLNCE
About the Department & Teaching Learning Practices followed in the Department	Dr.R.Jeyanthi Professor/ECE , KLNCE
Department Vision, Mission, PSOs & PEOs	Dr. B. Buvaneswari Associate Professor/ECE , KLNCE
Summary of feedback provided by stakeholders and Department Advisory Committee Meeting (DAC) members & Measures Planned for approval	Chairman: Dr.V.Kejalakshmi, Professor & Head/ECE, KLNCE
Presentation of B.E.,ECE curriculum (I to VIII semester)	Chairman: Dr.V.Kejalakshmi, Professor & Head/ECE, KLNCE
Presentation of B.E.,ECE II semester detailed syllabus and course outcomes	Dr.P.Karpagavalli Associate Professor/ECE, KLNCE
Comments and Suggestions	Anna University Nominee , External Expert Members , and Internal Members
Presentation of M.E., Communication systems curriculum and syllabus (I to IV semester)	Dr. S.C Sivaprakash, Professor/ECE, KLNCE
Comments and Suggestions	Anna University Nominee , External Expert Members , and Internal Members
Vote of Thanks	:Mr.S.R.Naresh, Associate Professor/ECE,KLNCE

## External Members Present

The BoS Meeting for the ECE department held on 07.08.2020 (Friday) at 2.00 PM in the Google Meet online platform. The following members have attended the meeting.

Dr.V.Kejalakshmi Professor & Head/ECE, KLNCE	<b>Chairman</b>	
Dr.M.Poongothai, Associate Professor/ ECE Coimbatore Institute of Technology	<b>Anna University Nominee</b>	
<b><u>Subject experts from outside the Parent University to be nominated by the Academic Council</u></b>		
Dr.U.Syed Abudhagir Associate Professor/ECE B.V. Raju Institute of Technology, Medak, Telangana.	<b>External Expert Member</b>	
Dr.D.Sriram Kumar Professor/ECE National Institute of Technology, Tiruchirappalli.	<b>External Expert Member</b>	
<b><u>Representative from Industry</u></b>		
Mr.R.B.Anent Prakash Senior Manager Synopsis Inc., Bangalore	<b>External Expert Member</b>	
<b><u>Postgraduate meritorious alumnus</u></b>		
Dr.B.Sridevi Professor Velammal Institute of Technology Chennai	<b>External Expert Member</b>	

<b><u>Special Invitees</u></b>		
Dr.A.Sivanantha Raja Professor and Head/ECE Alagappa Chettiar Government College of Engineering and Technology		
Dr.A.V.Ramprasad Principal, KLNCE.		
Dr.R.Alageswaran IQAC Coordinator, KLNCE.		
<b><u>Internal Members Present</u></b>		
Dr.S.C.SIVAPRAKASH Professor/ECE, KLNCE.		
Dr.R.JEYANTHI Professor/ECE, KLNCE.		
Dr.N.JANAKIRAMAN Professor/ECE, KLNCE.		
Mr.S.R.NARESH Associate Professor/ECE, KLNCE.		
Dr.P.KARPAGAVALLI Associate Professor/ECE, KLNCE.		
Dr.K.R.SHANTHY Associate Professor/ECE, KLNCE.		
Dr.R.MOHAN KUMAR Associate Professor/ECE, KLNCE.		
Dr.B.BUVANESWARI Associate Professor/ECE, KLNCE.		
Dr.P.S.KUMARESH Assistant Professor (SG) /ECE, KLNCE.		

Dr.S.SUBHA Assistant Professor (SG) /ECE, KLNCE.		
Mrs.R.THILAGAVATHY Assistant Professor (Sr.Gr) /ECE, KLNCE.		
Ms.L.MEENAKSHI Assistant Professor (Sr.Gr) /ECE, KLNCE.		
Mrs.M.AMUDHA Assistant Professor (Sr.Gr) /ECE, KLNCE.		
Mrs.T.R.MUTHU Assistant Professor (Sr.Gr) /ECE, KLNCE.		
Mr.S.RAVI SANKAR Assistant Professor /ECE, KLNCE.		
Mr.D.ANAND Assistant Professor /ECE, KLNCE.		
Mrs.A.MEENA Assistant Professor /ECE, KLNCE.		
Mrs.R.PAVITHRA Assistant Professor /ECE, KLNCE.		
Mr.S.SELVA KUMAR Assistant Professor /ECE, KLNCE.		
Mrs.T.VIDHYA Assistant Professor /ECE, KLNCE.		



## Minutes of Meeting

The following points have been discussed in the BoS Meeting of the Electronics and Communication Engineering (ECE) Department, which was held on 07.08.2020 (Friday) at 02.00 pm in the Google Meet online platform.

- Dr.A.V.Ramprasad, Principal & Professor/ECE, KLNCE welcomed AU nominee, External expert members, Internal members, and special invitee.
- The Chairman of BoS Dr.V.Kejalakshmi, Professor and Head/ECE introduced External BoS Members to the board and further internal members introduced themselves.
- Dr.R.Jeyanthi, Professor/ECE, KLNCE briefed about the Department, Teaching Learning Process practiced in the department.
- Dr. B. Buvaneswari, Associate Professor/ECE briefed about the Department Vision, Mission, PSOs and PEOs.

**Chairman of BoS Dr.V.Kejalakshmi, Professor and Head/ECE presented the following:**

- Chairman of BoS briefed about the curriculum framing process and discussed the feedback of stakeholders in the design of ECE curriculum.
- As per the feedback obtained from the stakeholders, and with reference to the AICTE model curriculum, the following changes have been made in the existing Anna University (AU) Curriculum, Regulation-2017 (R-2017).
  - UNIX and Shell Programming lab is newly introduced in the first semester of Regulation-2020 ECE syllabus to understand basics of various OS related concepts, from a programmer's point of view, like files, directories etc.
  - The following courses in the AU R2017 ECE curriculum are grouped as a single course in the R2020 ECE Curriculum.

R2017		R2020	
Semester	Course Name	Semester	Course Name
II	Basic Electrical and Instrumentation	II	Basic Electrical Engineering and Electron Devices
II	Electron Devices		
III	Electronics Circuits - I	III	Analog Electronics
IV	Electronics Circuits - II		

- Object Oriented Programming Lab which falls in the III semester of R2020 ECE syllabus will be exercised with both C and C++ languages.
- As per the guidelines of AICTE, Universal Human Values course is added in the second year (III semester).
- The basic concepts of Verilog Programming are included in the Digital System Design theory as well as practical Course.
- Mini-Project is introduced in the VI semester as a Career enhancement course to address a Program Outcome about Project Management and Finance.
- Electives like Multi-core Programming, Mixed C and Assembly Language Programming , Data Science and Analysis and Artificial Intelligence are introduced to equip students with skills in recent technologies.
- Non-Credit Mandatory courses are incorporated in the curriculum as per the Guidelines of the AICTE.

- Chairman: Dr.V.Kejalakshmi, Professor & Head/ECE, KLNCE presented B.E. ECE curriculum (I to VIII semester).
- Course outcomes and the detailed syllabus of B.E.ECE II semester has been presented by Dr.P.Karpagavalli, Associate Professor/ECE.
- Dr. S.C Sivaprakash, Professor/ECE presented M.E. Communication systems curriculum and syllabus (I to IV semester).

### **Suggestions from Experts:**

#### **Dr.M.Poongothai, AU Nominee suggested the following,**

- Recommended to introduce placement perspective core/elective courses from V semester onwards.
- Also, suggested to incorporate the application oriented concepts in python programming language.
- Clarified about Value Added Courses.

#### **For PG Programme, AU Nominee recommended the following,**

- Insisted to encourage students in Project based learning. Mini-Project may be assessed with proper evaluation pattern to measure the learning capability of the students
- Courses like Fundamentals of 5G technology, Mobile computing, Virtual reality can be included

**Dr.D.Sriram Kumar, External Expert member suggested the following,**

- The total credit for the UG Programme should be aligned with the credit suggested by AICTE.
- Insisted to reduce the credit 188 , and make it closer to 165.
- Suggested to introduce a theory cum practical course.
- The course name “Linear Integrated Circuits” can be changed as Analog integrated circuits and “Linear Integrated Circuits Lab” can be changed as Analog integrated circuits Lab.
- Also, clarified about the syllabus of Transmission Lines and Antennas. The content of the course Transmission Lines and Antennas will be very vast and may over-burden the students.
- Suggested to assign a Microwave course in VII semester.
- Also, suggested to give more importance in the Control Systems part while designing a course titled “Control & Instrumentation” as in the GATE syllabus.
- Courses which are aligned with the latest technology can be added to the open elective list.

For PG Programme, he recommended the following,

- All theory courses can be conducted within the first year of M.E.
- Maximum One year duration can be given for project course
- Students may be allowed to do internship in the Industry

**Dr.U.Syed Abudhagir, External Expert member suggested the following,**

- In Python Programming Syllabus, data structures concepts may be included.
- Also, recommended to introduce Job oriented electives before the start of the VII semester.
- Algorithms based courses can be given as electives.

**Mr.R.B.Anent Prakash, External Expert member suggested the following,**

- Recommended to include Verilog HDL modeling in the course titled Digital System Design. Also, he suggested practicing students in Verilog Programming while conducting the Digital Lab. Suggested Python labs be in Unix OS.

**Dr.B.Sridevi, External Expert member suggested the following,**

- Suggested to check the norms followed in the AICTE curriculum

**Dr.A.Sivanantha Raja, Special Invitee suggested the following,**

- Special Invitee said that the credit fixed for the course ‘Professional Communication’ is not sufficient. He suggested increasing it.
- In Open Electives, the courses from mechanical and automobile engineering may be included.
- Also, while practicing Mini-Project to the students , they should be able to focus on ‘E-Waste Management’.
- Special Invitee added that the new education policy is focusing on how to make students job-creators (Entrepreneur);So he suggested to include the courses which describe entrepreneurship qualities.
- List of Elective / Online courses can be mentioned in the curriculum.
- As per AICTE suggestion, he advised to fix 20 credits for the online course.
- Special Invitee added that in M.E., syllabus, the inclusion of Research Methodology is mandatory as per the AICTE guidelines.

**BoS recommended the above resolutions to be presented in the Academic Council for further approval.**

- Mr.S.R.Naresh, Associate Professor/ECE thanked all the members for their cooperation and valuable suggestions.



**Chairman/ECE Board**

**CC to General Body, Academic Council, Principal, File**

## Meeting Follow-up Actions Taken

**As per the suggestions from the External Expert members, the following corrections have been done in the UG and PG Curriculum and Syllabus.**

**As per Dr.M.Poongothai**, AU Nominee's suggestion, the following modifications have been done in the 2020 curriculum:

1. Placement perspective core/elective courses have been introduced in the V semester onwards
2. Application oriented training for python programming language is too early for the first semester students. So it will be exhibited in the higher semester during the Project contest.
3. Value Added Courses are recommended and incorporated in the 2020 curriculum.
4. A Mini project course is added in the second semester of ME programme.
5. Advanced courses like Fundamentals of 5G technology, Mobile computing and Virtual reality have been included as electives.

**As per Dr.D.Sriram Kumar**, External Expert member's suggestion, the following modifications have been done in the 2020 curriculum:

1. The total credit of UG course is set as 170.
2. The theory cum practical course, which combines theory and lab have been introduced for the following courses.
  - 20CS304 - Object Oriented Programming and Data Structures
  - 20EC404 - Principles of Digital Signal Processing
  - 20EC505 - Advanced VLSI Design
  - 20EC602 - Communication Networks
3. "Transmission Lines and Antennas" Course has been separated into two courses, namely "Transmission lines and Wave Guides" course (V Semester) and "Modern Antennas in Wireless Telecommunications" course (VI Semester).
4. Advanced and emerging technology courses will be added in the open elective courses list.

**As per Dr.U.Syed Abudhagir**, External Expert member's suggestion the following modifications have been done in the 2020 curriculum:

1. In the Python Programming Syllabus, few basic searching algorithms are present.

2. Job oriented electives are offered before the start of the VII semester.
  - One professional elective course is added in V semester.
  - Job oriented courses and Embedded and Real Systems Course are shifted to VI semester from VII semester.
  - Also, the Machine Learning Technique theory course and its corresponding laboratory course are added in the curriculum.
3. Algorithm specific courses like “Design and Analysis of Algorithms” have been included in Open Elective – I.

**As per Mr.R.B.Anent Prakash, External Expert member’s** suggestion, the following modifications have been done in the 2020 curriculum:

- Verilog HDL modeling is included in the course titled Digital System Design and Digital Lab.

**As per Dr.A.Sivanantha Raja, Special Invitee’s** suggestion, the following modifications have been done in the 2020 curriculum:

1. The credit for the course ‘Professional Communication’ is increased to 1.5
2. In the curriculum the elective courses are indicated as Open Elective / Online Course.
3. Also, while practicing Mini-Project to the students, they will be guided to focus on ‘E-Waste Management’.
4. Entrepreneurship course is included in Professional Elective – I (V Semester) and Open Elective – II (VII Semester).
5. Due to placement training activities, the number of theory courses in VII Semester is only five instead of six.
6. As per AICTE model curriculum, “Research Methodology and IPR” course is introduced in the first semester of P.G. Programme.



**Chairman/ECE Board**

**ENCL:**

1. **B.E. ECE I to VII Semester Curriculum**
2. **B.E. ECE II Semester Detailed Syllabus**
3. **M.E. Communication Systems I to IV Semester Curriculum and Syllabus**

**CC to General Body, Academic Council, Principal, File**

**K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM- 630612.**

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

Ref:KLNCE/BoS/EEE/2020








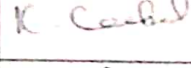

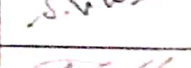
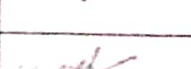
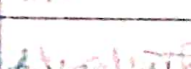

10.08.2020

Board of Studies meeting-10th August 2020









**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING****Minutes of Meeting**

The first Board of Studies (BoS) meeting of the Department of Electrical and Electronics Engineering was held on 10th August 2020, through online mode.

(meeting id: <https://meet.google.com/wnb-ghzg-osl?hs=151>)

MEMBERS PRESENT:			Signature
S. No	Name, Designation and College	Details Details of Members	
1	Dr. S.M. KANNAN Professor & Head, Dept. of EEE, K.L.N. College of Engineering.	Chairman	
2	Dr. M. Geethanjali, Professor, Dept. of EEE, Thiagarajar College of Engineering, Madurai.	Anna University nominee	
3	Dr. R. Rajathy, Associate Professor, Dept. of EEE, Pondicherry Engineering College, Puducherry.	Subject expert from outside the Parent University	
4	Dr. G.Y. Rajaa Vikhram, Assistant Professor, Dept. of Electronics and Instrumentation Engineering, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu District.	Subject expert from outside the Parent University	
5	Mr. Balaji Gopalsamy, Senior Manager, R&D, Broadcom Research Private Limited, Bengaluru	Member representing corporate sector	
6	Sankaran Ramasamy, Engineering Director, Blueberry Semiconductor PVT Ltd, Bengaluru	Member representing industry	
7	S. Kuruseelan, Assistant Professor, School of Electrical Engineering (SELECT), Vellore Institute of Technology, Vandalur, Chennai	Member representing Postgraduate meritorious alumnus	
8	Dr. S. Venkatesan, Professor, EEE	Internal member	
9	Dr. K. Gnanambal, Professor, EEE	Internal member	
10	Dr. S. Parthasarathy, Professor, EEE	Internal member	
11	Dr. S. Venkata Narayanan, Professor, EEE	Internal member	
12	Dr. P. Loganathurai, Associate Professor/EEE	Internal member	
13	Dr. M. Jegadeesan, Associate Professor/EEE	Internal member	
14	Mr. A. Marimuthu, Associate Professor/EEE	Internal member	



15	Dr S. Manoharan, Assistant Professor (Sr. Gr) /EEE	Internal member	
16	Mr. M. Jeyamurugan, Assistant Professor (Sr. Gr) /EEE	Internal member	
17	Mr. M. Balamurugan, Assistant Professor /EEE	Internal member	
18	Mr. N. Vimal Radha Vignesh, Assistant Professor /TEE	Internal member	
19	Mr. A. Manoj, Assistant Professor /EEE	Internal member	
20	Mrs. R. Sridevi, Assistant Professor /TEE	Internal member	
21	Dr. A. V. Ramprasad, Principal, K. L. N. College of Engineering	Special Invitee	
22	Dr. R. Alageswaram, HoD/IT, IQAC Coordinator, K. L. N. College of Engineering	Special Invitee	

Signature of HoD/EEE



Dr.S.M.Kannan, Chairman, Board of studies (BoS), Electrical and Electronics Engineering, welcomed all the members present. The members introduced themselves. The Chairman briefed about the college and the department. The Chairman informed that the B.E./B.Tech, first year curriculum and syllabus will be implemented from the academic year 2020-2021, after getting the approval of the BoS and Academic council. The M.E. Power Systems Engineering course, first year curriculum and syllabus will be implemented from 2020-2021, onwards after the approval of the BoS and Academic council.

Dr.S.M.Kannan, presented, the proposed, B.E. Electrical and Electronics Engineering, I to VIII semester curriculum. He informed that the curriculum was framed as per the guidelines of AICTE, UGC and Anna University, Chennai.

Chairman presented the curriculum and syllabus of Electrical and Electronics Engineering courses offered in the first and second semester of B.E./B.Tech Degree programs, B.E Mechanical Engineering, B.E. Electrical and Electronics Engineering, B.E. Electronics and Communication Engineering, B.E. Computer Science and Engineering, B.E. Electronics and Instrumentation Engineering, B.E. Automobile Engineering and B.Tech Information Technology.

He also presented the Curriculum and syllabus, M.E. Power Systems Engineering, I to IV semesters.

The members had through discussion and suggested the following.

- (i) The chairman initially presented the total credits points for B.E.EEE to 180 and the members suggested to revise in line with AICTE model curriculum.
- (ii) In the second semester of B.E.CSE & B.Tech IT, for the course, 20 EE204-Basic Electrical and Electronics Engineering, instruction regarding “Qualitative treatment only” may be given in the syllabus for the benefit of the subject handlers and question paper setters.
- (iii) In M.E. Power Systems Engineering, as per AICTE model curriculum, Research Methodology and IPR, Audit course-I,II and open Elective may be included.
- (iv) In the curriculum of M.E.Power Systems Engineering, courses like SCADA and Substation Automation, Digital Protection and Renewable Energy integration in Smart grid may be included.
- (v) In M.E.Power Systems Engineering, the course 20PS3E4-Electric Vehicles and Power Management, the title may be changed as Electric Vehicles and Energy Storage system or Hybrid Electric vehicle.
- (vi) In M.E. Power Systems Engineering, the course 20PS3E6 - Control System Design for Power Electronics title may be changed as Design of Power Electronic converters.
- (vii) In the M.E. Power Systems Engineering, revised edition by the same author may

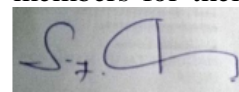
be included in the Text/Reference book section.

- (viii) Emerging topics such as Power System optimization, Cyber security for Power system operation, IOT based Power system automation, Power theft, Machine learning for Power systems and Phasor Measurement Unit (PMU) may be included as units in the exiting courses or may be added as separate course.

Based on the suggestion given by the members, it is resolved to approve the curriculum and syllabi, with the following modifications.

- (i) Total credits points for B.E.EEE – I to VIII semesters has been revised, as per AICTE model curriculum.
- (ii) In the second semester of B.E.CSE & B.Tech IT, for the course, 20EE204- Basic Electrical and Electronics Engineering, instruction regarding “Qualitative treatment only” given in the syllabus for the benefit of the subject handlers and question paper setters.
- (iii) In M.E.Power systems Engineering, as per AICTE model curriculum, Research Methodology and IPR, Audit course-I, II and open Elective are included..
- (iv) In the syllabus of M.E .Power Systems Engineering, for the courses like Advanced Power System protection, Smart Grid, topics on Digital protection, Renewable Energy sources integrated with Smart grid added.
- (v) In M.E. Power Systems Engineering, the course 20PS3E4-Electric Vehicles and Power Management, the title has been changed as Electric Vehicles and Energy Storage system.
- (vi) In M.E.Power Systems Engineering, the course 20PS3E6 - Control System Design for Power Electronics title has been changed as Design of Power Electronic converters.
- (vii) In the M.E. Power Systems Engineering, revised edition (latest print) by the same author included in the Text/Reference book section.
- (viii) Topics on Power Theft, Machine learning for Power systems and Phasor Measurement Unit (PMU) are included in the syllabus of Energy management and Auditing, Soft computing Techniques respectively.

Board of studies recommended the above resolutions to be presented in the Academic Council for further approval. Dr.K.Gnanambal, Professor/EEE, thanked all the members for their kind cooperation and the meeting came to an end.



Chairman /BoS

Cc to above members



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

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

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Ref: KLNCE/BoS/CSE/2020

17.08.2020

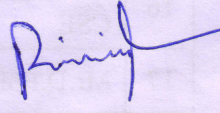
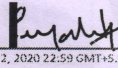


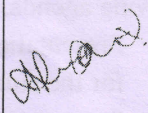
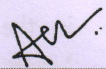
**Minutes of First Board of Studies Meeting**

The First Board of Studies meeting of Computer Science and Engineering department was conducted on 15.08.2020 at 2.30 p.m. through online.

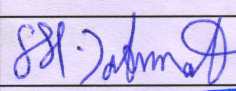
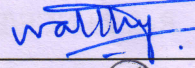
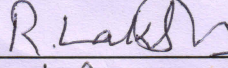
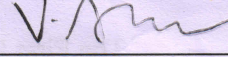
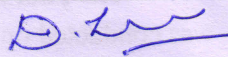

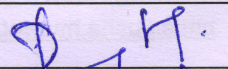
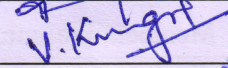
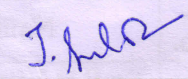
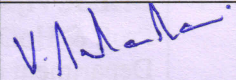

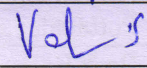
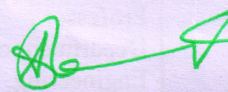
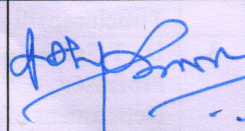
Meeting Link:

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Members Present:

S. No.	Name of the Members	Category	Signature
1	<b>Dr.P.R.Vijayalakshmi</b> Prof. & HoD, Department of Computer Science and Engineering, K.L.N. College of Engineering, Pottapalayam – 630 612.	CHAIRMAN	
2	<b>Dr.N.Ramasubramanian</b> Professor , Department of Computer Science and Engineering, National Institute of Technology, Tiruchirapalli – 620 015.	ANNA UNIVERSITY NOMINEE	 <small>Ramasubramanian (Oct 2, 2020 22:59 GMT+5.5)</small>
3	<b>Dr.T.Subbulakshmi</b> Professor , Department of Computer Science and Engineering, Vellore Institute of Technology, Chennai – 600 127.	SUBJECT EXPERT (outside the Parent University)	 <small>Dr. T. Subbulakshmi, VIT, 03-10-2020</small>
4	<b>Dr. R. Ramalakshmi</b> Professor , Department of Computer Science and Engineering, Kalasalingam University, Krishnankoil -626 128.	SUBJECT EXPERT (outside the Parent University)	
5	<b>Mr.A.P.Vinoth Kumar</b> Senior IT Analyst – SAP SPP, Neovia Logistics, Chennai.	Industry Expert	
6	<b>Mr.K.J.Ashok Babu</b> Information Security Consultant – PCI, Stickman Consulting Pvt. Ltd., Shivaji Nagar, Bangalore – 560001.	Postgraduate Meritorious Alumnus	 <small>Ashok Babu (Oct 5, 2020 16:53 GMT+5.5)</small>



S. No.	Name of the Members	Category	Signature
7	Dr.S.Miruna Joe Amali, Professor / CSE	Member	
8	Dr.T.R.Vedhavathy, Professor / CSE	Member	
9	Dr.R.Lakshmi, ASP / CSE	Member	
10	Mr.V.Bhaskar, ASP / CSE	Member	
11	Mr.D.Pravin Kumar, ASP / CSE	Member	
12	Dr.P.Premkumar, ASP / CSE	Member	
13	Dr.M.Raghini, ASP / CSE	Member	
14	Mrs.V.Karpagam, AP (Sr. Gr.) / CSE	Member	
15	Mr.J.Sulthan Alikhan, AP (Sr. Gr.) / CSE	Member	
16	Dr.V.Akilandeswari, AP (Sr. Gr.) / CSE	Member	
17	Mr.D.Prabhu, AP / CSE	Member	
18	Mrs. S. Venkatalakshmi, AP / CSE	Member	
19	<b>Dr.A.V.Ramprasad</b> Principal, K.L.N. College of Engineering, Pottapalayam – 630 612.	Special invitee	
20	<b>Dr.R.Alageswaran</b> HoD/IT, IQAC Coordinator, K.L.N. College of Engineering, Pottapalayam – 630 612.	Special invitee	

At the outset, on behalf of KLNCE Management, Principal and Department of CSE Dr.P.R.Vijayalakshmi , Prof. & HoD, Chairman, Board of Studies of CSE department welcomed the Anna University Nominee , BoS of CSE department, other BoS members from various reputed academic institutions and from industries. Also, she welcomed all the members present in the meeting.

The Chairman, BoS of CSE department presented the following as per the following agenda.

1. Presentation of B.E. (CSE) program – I to VIII semesters curriculum (proposed) for the students to be admitted from the Academic Year 2020-21.
2. Presentation of syllabus for Computer Science and Engineering courses offered in the first and second semester of B.E./ B.Tech Degree programs - B.E Mechanical Engineering, B.E. Electrical and Electronics Engineering,



B.E. Electronics and Communication Engineering, B.E. Computer Science and Engineering, B.E. Automobile Engineering, B.E. Electronics and Instrumentation Engineering and B.Tech Information Technology.

After the presentation, the following suggestions were given by the Experts.

Dr.N.Ramasubramanian, Prof. / CSE, NIT, Trichy gave the suggestions to modernize the curriculum and syllabus as well. Initially, Professor informed that the curriculum is well framed from III semester to VIII semester and told that the Total Credit 188 is slightly higher and so suggested to reduce.

- Suggested to refer Computer Engineering Curricula Recommendations by ACM rather than Computer Science Curricula Recommendations because it is necessary to give the Engineering aspects of Computer Systems to B.E.(CSE) students.
- Programming Courses need not be a Theory Course. It can be considered as a Practical Course or Theory cum Practical Course.
- Suggested to include Introduction to Algorithms in place of Object Oriented Programming Theory Course in III semester so that all basic algorithms can be taught.
- Suggested to update Design and Analysis of Algorithms as Design and Analysis of Parallel Algorithms.
- Suggested to have Computer Organization and Architecture as a single course or Computer Organization and Computer Architecture as two courses.
- Suggested to combine Microprocessor and Embedded Systems and also suggested to include ARM architecture so that students can aware about the commercially utilized architectures.
- Suggested to give 2 separate laboratory courses i.e. Microprocessor Laboratory and Embedded Systems Laboratory in place of one Microprocessor and Microcontroller Laboratory. In Embedded Systems laboratory suggested that Experiments on Basics of Microcontrollers, Basics of IoT on using ARM architecture can be given.
- Suggested that Mobile Architecture and Programming can be given instead of Mobile Computing.
- Cloud Computing can be considered as an elective course. The elective course Machine Learning Techniques can be given as a compulsory course with the course name as Machine Learning Theory and Practice. And also suggested that this course can be taught s VI semester and Artificial Intelligence in VII semester. Similarly, Machine Learning Laboratory in place of Cloud Computing Laboratory.

Dr.T.Subbulakshmi, Prof. /CSE, VIT, Chennai suggested that the programming course name can be given as conceptual based rather than particular about the programming language name. Also, suggested to include mini projects in every laboratory courses. Professor also suggested to include OOP concepts in Python theory and to group the elective subjects domain based.



Dr.R.Ramalakshmi, Prof. / CSE, Kalasalingam University, Krishnankoil suggested for changing the course name Internet Programming Laboratory as Web Technology Laboratory. Also, suggested that as per AICTE model curriculum, the Course Project Work can be given for 15 credits in two semesters.

Mr.A.P.Vinoth Kumar, Senior IT Analyst- SAP SPP, Neovia Logistics, Chennai appreciated that all the latest technologies have been included and suggested that Lab Model can be conducted as Workshop based Model i.e. assigning group projects. Also, informed that the faculty members will also equip themselves in latest technologies by attending industrial training for the better outcome.

Mr.K.J.Ashok Babu, PG alumnus also suggested that mini projects / case study can be included in all the laboratory courses.

The Subject Experts from academic institutions suggested that

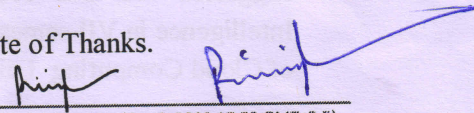
- Total Credits can be reduced as per AICTE model curriculum.
- Syllabus can be framed by referring latest edition of Text Books and Reference Books.

Based on the suggestions given by the members, it is resolved to approve the R 2020 B.E.(CSE) curriculum with the following modifications.

- Total Credits of B.E.(CSE) – I to VIII semesters has been revised as per AICTE model curriculum.
- In III semester, Data Structures course title has been changed as Data Structures and Algorithms and Object Oriented Programming course is given as a practical course.
- In IV semester, Computer Architecture course title has been changed as Computer Organization and Architecture and Design and Analysis of Algorithms as Design and Analysis of Parallel Algorithms.
- In V semester, Microprocessors and Microcontrollers course (both Theory and Practical) title has been changed as Microprocessors and Embedded Systems and Internet Programming as Web Technology and given as a practical course.
- In VI semester, Mobile Computing and Machine Learning courses title have been changed as Mobile Architecture and Programming and Machine Learning Theory and Practice.

Board of Studies recommended the above resolutions to be presented in the Academic Council for further approval.

Dr.S.Miruna Joe Amali, Prof. / CSE proposed the Vote of Thanks.

  
Vijayalakshmi P.R. (Oct 5, 2020 17:50 GMT+5.5)

**Dr.P.R.Vijayalakshmi, Prof. & HoD / CSE**  
**Chairman / Board of Studies**

**Cc to Governing Body, Academic Council, Coordinator / IQAC, Principal, File**





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

**(An Autonomous Institution, Approved by AICTE, New Delhi )**

**Affiliated to Anna University, Chennai**

**(An ISO 9001: 2015 Certified Institution)**

**Accredited by NAAC, Bengaluru**



**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**

Ref: KLNCE/BoS/EIE/2020

19.09.2020

**First Board of Studies (BoS) Meeting**

**First BoS Meeting Agenda**

**Date of the Meeting: 19.09.2020 (Saturday)**

**Time : 11.A.M**



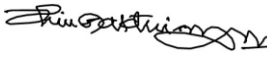
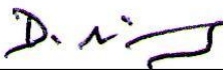

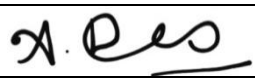

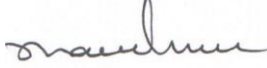


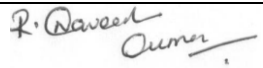
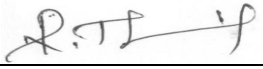
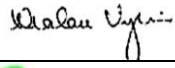

**Online Platform: G –Meet**

**G- Meet Link : <http://meet.google.com/xhf-raab-mto>**

Welcome Address	Chairman : Prof. S. Nagammai Professor & HOD/EIE
Introduction of Anna University Nominee, External Expert Members, and Internal Members	Dr. A. Umarani Professor/EIE
Introductory Address	Dr. A.V. Ram Prasad Principal, KLNCE
About the Department	Dr.D.Pradeep kannan Professor/EIE
Presentation of of B.E.,EIE UG Curriculum (I to VIII semester)	Chairman: Prof. S. Nagammai Professor & HOD/EIE
Comments & Suggestions	Anna University Nominee , External Expert Members
Vote of Thanks	Mr. P.Ravikumar ASP/EIE

**MINUTES OF FIRST BOARD OF STUDIES MEETING - 19.09.20 (SATURDAY)**

The first Board of Studies meeting of Electronics & Instrumentation Engineering department was conducted through online on 19-09-2020 (Saturday) at 11.00 a.m. The following members were present in the Meeting

<b>MEMBERS PRESENT:</b>			
<b>S. No</b>	<b>Name, Designation and College Details</b>	<b>Details of Members</b>	<b>Signature</b>
1.	<b>Prof.S.Nagammai</b> Professor & Head, Department of Electronics & Instrumentation Engineering, K.L.N. College of Engineering.	Chairman	
2.	Dr. N.Sivakumaran , Professor, Instrumentation & Control Engineering, National Institute of Technology, Tiruchirappalli-15	Anna University Nominee	
3.	Dr. P.Thirusakthimurugan , Professor & Head /EIE, Pondicherry Engineering College, Puducherry.	Subject expert outside the Parent University	
4.	Dr. D. Sivakumar, Professor/EIE, Annamalai University, Annamalai Nagar Chidambaram.	Subject expert outside the Parent University	
5.	Dr. P. R.Venkateswaran, Manager, Welding Research Institute, BHEL, Trichy.	Industry Expert	
6.	Dr.A.Umarani, Professor/EIE	Member	
7.	Dr.D.Pradeep Kannan, Professor/EIE	Member	
8.	Mr. P.Ravikumar, Associate Professor	Member	
9.	Dr. S.Balamurugan, Assistant Professor (Sr.Gr)	Member	
10.	Mrs.K.Dhanalakshmi, Assistant Professor	Member	On leave
11.	Mrs.N.Vishnu Devi, Assistant Professor	Member	
12.	Mr.R.Naveeth Kumar, Assistant Professor	Member	
13.	Mrs.R.Thenmozhi, Assistant Professor	Member	
14.	Mrs.V.Malarvizhi, Assistant Professor	Member	
15.	Dr.A. V.Ramprasad, Principal, K.L.N.College of Engineering.	Special Invitee	



16.	Dr.R. Alageswaran, HoD/IT, IQAC Coordinator, K.L.N.College of Engineering.	Special Invitee	
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**The following points were discussed in the meeting:**

- ❖ On behalf of KLNCE Management, Principal and Department of EIE, S.Nagammai, Professor&HOD/EIE, Chairman of Board of Studies of EIE department welcomed AU nominee, External expert members, internal members, and special invitee.
- ❖ Dr.A.UmaRani, Professor/EIE introduced External BoS Members to the board and further internal members have introduced themselves.
- ❖ Dr.A.V.Ramprasad, Principal, KLNCE delivered the introductory address about the achievements of the Institution from the inception. He briefed about the process of curriculum development in KLNCE.
- ❖ Dr.D.Pradeep kannan, Professor/EIE briefed about the Department Vision, Mission statements and highlighted the department academic activities, achievements, industry collaboration, department Research and Development activities.
- ❖ The Chairman informed that the B.E./B.Tech, first year curriculum and syllabus will be implemented for the students to be admitted from the Academic year 2020-2021, after getting the approval of the BoS and Academic council.
- ❖ Prof S. Nagammai, Chairman of BoS presented the proposed B.E. Electronics & Instrumentation Engineering curriculum from I to VIII semester before the experts. She informed that the curriculum was framed as per the guidelines of AICTE,UGC and Anna University, Chennai.

**After the presentation, the following suggestions were given by the various Experts**

**General Suggestions from the Experts:**

Total credit points in the proposed curriculum of B.E/EIE is 174 which are higher and members suggested to reduce the credit points referring AICTE model curriculum.

Experts suggested to give more importance to instrumentation oriented courses since the course has multifunctionality role.

Experts suggested that the courses listed in NPTEL may be offered as elective courses for the benefit of the students.

### **Suggestions related to courses by the Experts:**

#### **I and II Semester:**

- i. The experts suggested to shift the course Electric circuit analysis from II to III semester. Instead one subject titled 'Basics of instrumentation' may be included in II semester to attract the instrumentation aspirants.
- ii. Industrial practices workshop may be shifted to II semester as the course Electric circuits lab is shifted to III semester.

#### **III Semester:**

- i. A suggestion has been given to verify the need of the programming course OOPS (Theory and Lab) for B.E.EIE program.
- ii. The experts suggested to split Devices and Machines Lab into two Laboratory courses namely,
  - Devices and Circuits Laboratory
  - Electrical Machines Laboratory

#### **IV Semester:**

- i. The experts suggested to merge Electrical measurements (4<sup>th</sup> semester) and Electronic Instrumentation (5<sup>th</sup> semester) courses into a single course titled 'Electrical and Electronic instrumentation'.
- ii. Experts suggested to shift the course 'Communication Engineering' into V semester, instead suggested to include a course 'Signals and Systems' towards GATE preparation.

#### **V Semester:**

- i. Electronic instrumentation course to be replaced with 'Communication Engineering'.

#### **VI Semester:**

- i. The experts suggested merging PC and CCP courses with modified course content.
- ii. LDCS course may be renamed as PLC & DCS and suggested to shift to 7<sup>th</sup> semester.
- iii. Analytical Instruments course to be renamed as Analytical Instrumentation.
- iv. Suggested to include mini project with Technical Seminar course so as to enhance practical skills.

#### **VII Semester:**

- i. The experts suggested to interchange the course BMI with PLC & DCS.
- ii. The experts suggested to replace the course IDN with a course titled 'Smart and wireless Instrumentation' so as to have recent industrial exposure.

- iii. The experts suggested to include the courses like IOT & Smart Wireless Instrumentation and Instrumentation System Design either as core or elective course.

### **PROFESSIONAL ELECTIVES**

- i. The experts suggested to split the course 'MEMS and Nano science' into two separate courses.
- ii. The experts suggested to give more weightage to core paper rather than Management, Science and Humanities course under Professional elective courses.

### **Follow up Action**

**Based on the suggestion given by the Expert members, it is resolved to approve the curriculum of I to VIII semester of Electronics and Instrumentation Engineering with the following modifications.**

- i. As per the AICTE model curriculum and regulation R- 2020 KLNCE, the total credits points have been revised between 165 and 175.
- ii. It has been decided to have uniform curriculum and syllabus in the first year, first and second semester for B.E./B.Tech degree programs, as per guidelines of AICTE, UGC and Anna University Chennai, to meet out the credit points of various category of courses such as basic, Humanity Science, Engineering Science, etc.
- iii. As per the suggestion of the expert members it is decided to incorporate modifications in the curriculum and syllabus of B.E. Electronics and Instrumentation Engineering from 3 to 8 Semester.

### **III Semester:**

- i. OOPS Lab will be merged with OOPS theory for a credit of 4
- ii. Devices and Machines Lab will be split into two courses namely
- Electron Devices and Circuits Laboratory
  - Electrical Machines Laboratory

### **IV Semester:**

- i. Electrical Measurements subject will be renamed as Electrical and Electronic Instrumentation.
- ii. Communication engineering course will be shifted to 5<sup>th</sup> semester, instead Signals and System course will be included.

### **V Semester:**

- i. Electronic instrumentation subject will be replaced with Communication Engineering.

### **VI Semester:**

- i.PC and CCP will be merged as rename as Process and Computer Control with modified contents.
- ii.LDCS course will be renamed as PLC and DCS and shifted to 7<sup>th</sup> semester instead BMI course will be shifted to 6<sup>th</sup> Semester.
- iii.Analytical Instruments will be renamed as Analytical Instrumentation.
- iv.Technical seminar EEC course has been replaced with mini Project.

### **VII Semester:**

- i.Courses titled 'Smart and wireless Instrumentation' and Industrial Data has been included under Professional Elective courses.
- ii.CCP course will be removed instead PLC & DCS course will be included.
- iii.A course titled 'Instrumentation System Design' is included as core course.

### **Professional Elective**

As per the Experts suggestion more weight age for core course has been given with the following core electives such as,

- i.Instrumentation in paper industry.
- ii.Instrumentation in Iron & steel industry.
- iii.Cyber physical system.
- iv.Industrial IOT.
- v.Digital control system.

Further Board of Studies of Electronics and Instrumentation Engineering recommends the above resolutions to be presented in the Academic Council for further approval.

❖ Mr.P.Ravikumar, Associate Professor/EIE thanked all the members for their cooperation and valuable suggestions.



**Chairman/ BoS**  
**S.NAGAMMAI, Prof& Head/EIE**

**Cc To : Governing Body, Academic Council, Coordinator / IQAC, Principal and File.**



# K. L. N. COLLEGE OF ENGINEERING

Pottapalayam, Sivagangai District - 630612.

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



Ref: KLNCE/BoS/Au.Engg./2020

21.08.2020

## First Board of Studies meeting - 20<sup>th</sup> August 2020

### DEPARTMENT OF AUTOMOBILE ENGINEERING

#### Minutes of Meeting

The First Board of Studies (BoS) meeting of the Department of Automobile Engineering was held on 20<sup>th</sup> August 2020 in online mode.

(<https://us02web.zoom.us/j/5897343816?pwd=Z3daVUhqSXF5Mk5MOXIYUkNUOEhNdz09> )

<b>MEMBERS PRESENT:</b>		
<b>S. No.</b>	<b>Name, Designation and College Details</b>	<b>Details of Members</b>
1.	Dr.R.M.Satheesh Kumar, Professor &Head, Department of Automobile Engineering. K.L.N. College of Engineering.	Chairman
2.	<b>Dr. V. M. Murugesan</b> Associate Professor, Department of Automobile Engineering, PSG College of Technology, Coimbatore.	Anna University nominee
3.	<b>Dr. J. Jerald</b> Associate Professor, Department of Production Engineering, NIT, Tiruchirappalli.	Subject expert outside the Parent University
4.	<b>Dr. R. Vasudevan</b> Professor and Dean, School of Mechanical Engineering, VIT University, Vellore.	Subject expert outside the Parent University
5.	<b>Mr. K. Sundar</b> Assistant General Manager, Quality Assurance Hi-Tech Arai Pvt.Ltd, Madurai.	Industry Expert
6.	<b>Mr. P. Baskara Sethupathi</b> Assistant Professor (SG) Department of Automobile Engineering, SRM IST, Chennai.	Meritorious alumnus
7.	Mr.R.V.Suresh Babu, Associate Professor, Automobile Engineering	Member
8.	Dr.J.Rajesh Babu, Associate Professor, Automobile Engineering	Member

9.	Mr.N.Rajkumar, Associate Professor, Automobile Engineering	Member
10.	Mr.S.Suresh, Assistant Professor (SG.Gr) Automobile Engineering	Member
11.	Mr.L.Vivek Krishnakumar, Assistant Professor (Sr.Gr), Automobile Engineering	Member
12.	Mr.G.S.Santha venkatesh, Assistant Professor, Automobile Engineering	Member
13.	Mr. R.Vijayabalan, Assistant Professor, Automobile Engineering	Member
14.	Mr.S.Mohamed Jameen, Assistant Professor, Automobile Engineering	Member
15.	Mr.P.Karthik Selvan, Assistant Professor, Automobile Engineering	Member
16.	Dr.A.V.Ramprasad, Principal, K.L.N. College of Engineering.	Special Invitee
17.	Dr.R. Alageswaran, HoD/IT, IQAC Coordinator, K.L.N. College of Engineering.	Special Invitee

Mr. N. Raj Kumar, Associate Professor, Automobile Engineering, welcomed all the experts and members for the first online BOS meeting of Automobile Engineering.

Dr. J. Rajesh Babu, Associate Professor, Automobile Engineering, introduced the expert members.

Dr. R. M. Satheesh Kumar, HOD, Automobile Engineering briefly presented the details of the College and Department starting with Vision and Mission. Dr.A.V.Ramprasad, Principal, briefed about the achievements of the College.

Dr. R. M. Satheesh Kumar, Chairman, BoS, Au.Engineering presented the first year B.E./B.Tech curriculum and syllabus which will be followed from the academic year 2020-2021 onwards after getting the approval of the BoS and Academic council.

Dr. R. M. Satheesh Kumar, presented the proposed curriculum of B.E. Automobile Engineering from I to VIII semesters. He informed that the curriculum was framed as per the guidelines of AICTE, UGC and Anna University, Chennai.

After reviewing the proposed curriculum of B.E Automobile engineering, the expert members suggested the following points.

- (i) Total credit points in the proposed curriculum of B.E. Automobile Engineering are 178 which are higher and members suggested to reduce the credit points referring AICTE model curriculum.

Dr. V. M. Murugesan suggested the following

- (ii) Suggested to offer the Applied Thermodynamics subject in III semester and Automotive Engines in IV semester.
- (iii) Change the name of Automotive Engine Component design and Automotive Chassis Component design subjects of VI semester into Design of Automotive components and Design of Chassis components.
- (iv) Some subject offered in electives is similar to core subjects, can be removed and new subjects may be introduced in electives.
- (v) Suggested for Internship for students for one week or two week to be made mandatory.
- (vi) Dr.R.Vasudevan suggested to include Elective courses like Battery and Battery management system, Ergonomics, Heating, Ventilation & Air conditioning (HVAC) and Mat lab & simulation courses.
- (vii) Dr.J.Jerald suggested that in elective 4 of VIII semester two subjects namely production Planning and control and Computer integrated manufacturing is similar and suggested to exclude one subject and introduce some other subject in elective courses. He also suggested to avoid any repetition in the content of the syllabus.
- (viii) He also suggested to distribute the credit points in each semester in a balanced way to avoid more credits in one semester and less credits in one semester.
- (ix) Mr. Sundar suggested to include a subject with the contents like legal requirement for automobiles, emission standards and Automotive Homoglation.
- (x) Mr. Baskara Sethupathy Suggested to include Industry based courses.
- (xi) Suggested to encourage the students to do online courses like NPTEL instead of elective courses.

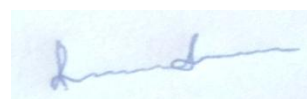
Based on the suggestion given by the members, it is resolved to approve the curriculum of I to VIII semester of Automobile Engineering with the following modifications.

- (i) Total credits points for B.E. Automobile Engineering I to VIII semester has been reduced to 170 and revised as per AICTE model curriculum and per regulation of KLNCE 2020.

- (ii) The course Applied Thermodynamics is included in III semester and the Course Engineering Mechanics is shifted to II semester.
- (iii) The course names of Automotive Engine Component design and Automotive Chassis components design of VI semester modified as Design of Automotive Engine components and Design of Automotive Chassis components
- (iv) The courses Manufacturing Technology in III semester and Manufacturing of Automotive components in semester VII professional elective 2 seems to similar and hence alternative courses HVAC is introduced in semester VII Professional elective 2 course.
- (v) Student Internship for one week or two week program is mandatory as per the regulation of KLNCE 2020.
- (vi) The elective courses HVAC, Battery and Management contents are added in the course of Electric Vehicle in V semester. Matlab will be offered as value added course.
- (vii) In VIII semester elective courses, Computer Integrated Manufacturing is offered and instead of Production Planning Control, Regulatory Mechanism for Transportation systems course is included.
- (viii) Repetition of the syllabus contents in some courses is avoided.
- (ix) Credit points are distributed in a balanced way.
- (x) Automotive Homoglation contents are included in the course Automotive testing in elective 4 of VIII semester and Automobile Legal requirements is included in the course Automotive Pollution Control in elective 4 of VIII semester.
- (xi) Industry based courses will be offered as one or two credit courses.
- (xii) Students can take online courses like NPTEL instead of any one elective course as per regulations of KLNCE 2020.

Board of studies of Automobile Engineering recommending the above resolutions to be presented in the Academic Council for further approval.

Mr. S. Suresh, Assistant Professor (SG), Automobile Engineering thanked all the members for their suggestions for the improvement of curriculum and their kind cooperation.



**CHAIRMAN / BoS**

**Dr.R.M.Satheesh Kumar, Prof & Head/Au.Engg.**

Cc to Members of BoS, Governing Body, Academic Council

Coordinator / IQAC, Principal and File.




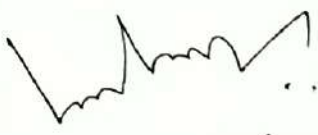
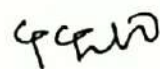

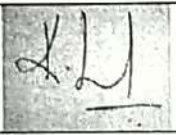


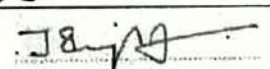
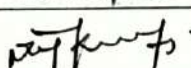
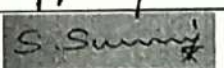
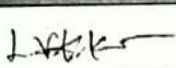
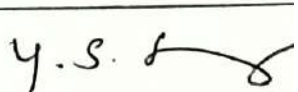

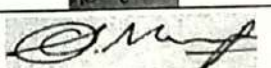
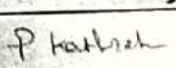

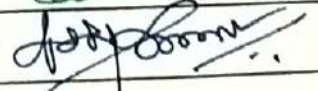
Board of Studies meeting-20th August 2020  
DEPARTMENT OF AUTOMOBILE ENGINEERING

Minutes of Meeting

The first Board of Studies (BoS) meeting of the Department of Automobile Engineering was held on 20th August 2020, through online mode.

(meeting id:https://us02web.zoom.us/j/5897343816?pwd=Z3daVUhqSXF5Mk5MOXIYUkNUOEExNdz09)

MEMBERS PRESENT:

S. No	Name, Designation and College	Details Details of Members	Signature
1	Dr.R.M.Satheesh Kumar, Professor & Head, Department of Automobile Engineering. K.L.N. College of Engineering.	Chairman /BoS -	
2	Dr. V. M. Murugesan Associate Professor, Department of Automobile Engineering, PSG College of Technology, Coimbatore.	Anna University Nominee	
3	Dr. J. Jerald Associate Professor, Department of Production Engineering, NIT, Tiruchirappalli.	Subject expert outside the Parent University	
4	Dr. R. Vasudevan Professor and Dean, School of Mechanical Engineering, VIT University, Vellore.	Subject expert outside the Parent University	
5	Mr. K. Sundar Assistant General Manager, Quality Assurance Hi-Tech Arai Pvt.Ltd, Madurai.	Industry Expert	
6	Mr. P. Baskara Sethupathi Assistant Professor (SG) Department of Automobile Engineering, SRM IST, Chennai.	Meritorious Alumnus	
7	Mr.R.V.Suresh Babu, Associate Professor, Automobile Engineering	Member	
8	Dr.J.Rajesh Babu, Associate Professor, Automobile Engineering	Member	
9	Mr.N.Rajkumar, Associate Professor, Automobile Engineering	Member	
10	Mr.S.Suresh, Assistant Professor (SG.Gr) Automobile Engineering	Member	
11	Mr.L.Vivek Krishnakumar, Assistant Professor (Sr.Gr) Automobile Engineering	Member	
12	Mr.G.S.Santha venkatesh, Assistant Professor, Automobile Engineering	Member	
13	Mr. R. Vijayabalan, Assistant Professor, Automobile Engineering	Member	
14	Mr.S.Mohamed Jameen, Assistant Professor, Automobile Engineering	Member	
15	Mr.P.Karthik Selvan, Assistant Professor, Automobile Engineering	Member	
16	Dr.A.V.Ramprasad, Principal.	Special Invitee	
17	Dr.R. Alageswaran, HoD/IT, IQAC Coordinator,	Special Invitee	

Signature of HOD/Au.Engg.



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

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

**Department of Information Technology**

**Ref: KLNCE / BoS//IT/2020/**

**Date: 18.08.2020**

**Minutes of First Board of Studies Meeting**

The first Board of Studies meeting was conducted through online on 17-08-2020 (Monday). The meeting was started by 10:00am. The following points were discussed in the meeting.

**Meeting Link**

**<https://us02web.zoom.us/j/5897343816?pwd=Z3daVUhqSXFzMk5MOXIYUkNUOEhNdz09>**

**Members Present:**

- |   |  |   |
|---|--|---|
| 1 | <b>Dr.R.Alageswaran</b><br>Prof. & HoD<br>Department of Information Technology<br>K.L.N. College of Engineering  | CHAIRMAN  |
| 2 | <b>Dr.S.Padmavathi</b><br>Professor<br>Department of Information Technology<br>Thaigarajar college of Engineering                                      | ANNA UNIVERSITY<br>NOMINEE                                |
| 3 | <b>Dr.Shunmugham R. Pandian</b><br>Associate Professor<br>IIITDM, Kancheepuram,  | SUBJECT EXPERT<br>(from outside the Parent<br>University) |
| 4 | <b>Dr. A. Umamakeswari</b><br>Dean<br>School of Computing, Shanmugha Arts, Science,<br>Technology & Research Academy SASTRA Deemed to be<br>University | SUBJECT EXPERT<br>(from outside the Parent<br>University) |
| 5 | <b>Mr.SathyaNarayana</b><br>University Focal<br>Honeywell Technologies and Solutions   | Industry Expert   |
| 6 | <b>Ms.M.Priya</b><br>PHP Developer ,<br>Pruvity HR Solutions Pvt. Ltd  | Postgraduate Meritorious<br>Alumnus                       |

7	<b>Mr.A.Muruganantham</b> General Manager Hexaware Technologies	Special invitee
8	<b>Dr.A.V.Ramprasad</b> Principal K.L.N. College of Engineering,	Special invitee
9	Dr.G.RAMESH, Professor / IT	Member
10	Dr.P.GANESH KUMAR, Professor / IT	Member
11	Dr.J.S.KANCHANA , ASP /IT	Member
12	Dr.S.ILANGO VAN, ASP / IT	Member
13	Dr.S.ILANKUMARAN, ASP / IT	Member
14	Mr.A.SELVARAJ, (Sr. Gr.) / IT	Member
15	Mr.C.PANDIAN, (Sr. Gr.) / IT	Member
16	Mr.M.SATHEESH KUMAR, AP / IT	Member
17	Dr.S.RAMESH, AP / IT	Member
18	Mrs.C.MANJULA DEVI, AP / IT	Member
19	Ms.S.VIJAYASHARMILA, AP / IT	Member
20	Mr.J.GAUTAM, AP / IT	Member
21	Mr.V.ARAVINDA RAJAN, AP / IT	Member

- **Dr.R.Alageswaran, Chairman /BOS** welcomed the members of BOS and introduced the members.
- **Dr.P.Ganeshkumar, Professor/IT**, highlighted the department academic activities, achievements, Industry collaboration, Industry Collaborated Hackathon events, Student's internship, Funding granted from MSME, Consultancy projects, Department incubation centre, and Department research and Development activities.
- **Dr.A.V.Ramprasad, Principal** gave introductory remarks about the achievements of the Institution from the inception. He outlined the process of curriculum development in KLNCE.
- **Chairman/BOS** presented the Curriculum of UG programme B.Tech-IT (3<sup>rd</sup> to 8<sup>th</sup> Semester) and the syllabus for IT related course Problem Solving using Python Programming which is offered commonly for all the B.E and B.Tech Programme offered in first semester and Programming in C course offered in second semester. AICTE model curriculum and R-2017 of Anna University have been followed for framing curriculum and syllabus, chairman/BOS told.

## **Suggestions and Recommendations by BOS members for B.Tech-IT Programme:**

### **1. Dr.A.Umamakeshwari**

- i. OOAD course can be moved to V semester and Software Engineering to VI semester in order to make the students to understand software engineering principles better.
  - ii. The number periods assigned for Web programming course in V semester should be either 2L+2T or 3L+1T to assign 4 credit to this course.
  - iii. The member pointed out that there are more experiments in Problem Solving using Python Programming.
- Dr. R. Alageswaran told that some of the simple experiments will be combined and students will be asked to do in lab hours.

### **2. Mr.SathyaNarayana**

- i. Beyond employability the engineering curriculum can focus on entrepreneurship also. The member asked to include entrepreneurship related course in the curriculum to make students self-employable.
  - ii. According to National Educational Policy 2020 released by MHRD, this Department has to identify a couple of research areas including cross disciplinary, make it big and brand it. This would create the pull globally, member told.
  - iii. Project funding from DST, DRDO etc can be encouraged through project proposal submission by the faculty members.
  - iv. Industry driven credit courses can be included in the curriculum, he added.
- **Dr.P.Ganeshkumar** replied to **Mr.SathyaNarayana's Comments.**

Department has an incubation centre in the name of Virtual Godown Technology, through which students are practising the industry culture, updating their skills as per the emerging technology.

Through the Innovation Promotion Cell (IPC) of KLNCE, interdisciplinary project contests have been organized every year, through which innovative ideas are promoted for funding from MSME. More than 8 Funding projects received from MSME ,Newdelhi & IISC Bangalore.

Our institution signed MoU with HTS, HCL and LinyTop, china for student's internship, knowledge transfer and technical training to the faculty members. The Industry collaborated certificate courses such as Salesforce, AWS are conducted as value added course, Ganesh told.

### **3. Dr.Shunmugham R Pandian**

- i. Embedded System course can be included as core course instead of elective course in the curriculum since the skill set on Embedded System is highly required in industries.
- ii. The Syllabus should be designed in such a way that students should get more practical oriented exposure.

iii. Use of Free Open Source Software should be encouraged for learning.

iv. Keeping common space by the college for designing Robots, Drones, VR, 3D printing, GSM based energy meter, electric vehicles, Apps development will convert the student's innovation into product.

v. The students should undergo online courses like edex, coursera, etc in order to enhance skills.

vi. The member reminded that the points suggested through mail can be considered while framing the syllabus for IT related subjects.

- **Dr.P.Ganeshkumar** replied to **Dr.Shunmugham RPandian** 's comments.

Our department has industry collaborated Honeywell Sentience lab for the students of IT,CSE and ECE to do inter disciplinary projects. Industry on demand projects have been successfully completed by our students.

- **Dr.R.Alageswaran** told that the points suggested by **Dr.Shunmugham RPandian** with regard to first year common subjects will be send to the respective BOS of S&H and Engineering departments for consideration.

#### **4. Mr. A. Muruganantham**

i. Giving importance to Big data Analytics course is needed since current technology has more thrust on this.

ii. As part of DBMS course, Instead of focusing traditional fundamental concept of RDBMS, NoSql database and open source data base may be included in DBMS course.

iii. A course which covers a full stack application development can be included as elective.

iv. He reiterated the importance of doing industry certification course like Microsoft azure, AWS certification etc.

- For the suggestion related to certification, **Chairman/BOS** replied that the students are getting certifications like Sales Force, AWS, industry 4.0, through ICTACT academy. Infosys also supports us for getting industry certification courses through Infytq, Chairman told.

#### **5. Ms.M.Priya**

i. PHP and jquery can be included in web programming course since skills on php and jquery are highly required in the industry.

ii. A new course can be included as elective in 6<sup>th</sup> semester instead of E-Commerce course.

- For Ms. Priya's comment about php and JQuery, **Dr.S.IIankumaran** replied that webpage development by using php is taught through TFSD club of IT department.

## **6. Dr.S.Padmavathi**

- i. Dr.S.Padmavathi encouraged for reducing lecture hours to 2 instead of 3 to make 2L+2T for 4 Credit for Web programming course. The member suggested that the sufficient faculty members and lab facility need to be ensured to conduct tutorial hours.
  - ii. The total credits of B.Tech IT Programme needs to be reduced as AICTE has reduced the total credits to 160.
  - iii. The contribution of minimum and maximum credits assigned to each category of courses like HS, BS, ES, PC, PE, EEC and MC should be clearly mentioned in Curriculum.
  - iv. The contribution of credits to be earned by lateral entry students needs to be mentioned since they join from second year and losing course credits of HS, BS and ES.
  - v. In III semester the total credit is 27 and this can be reduced if possible.
  - vi. Most of the elective courses are common to CSE and the member suggested that the curriculum can be reframed before next BOS meeting with new list of elective courses more specific to IT department specialization.
  - vii. IOT, Full stack development, Data Mining and Communication Technology were recommended as elective courses.
  - viii. The credits in 7<sup>th</sup> semester can be reduced so as to enable the students to prepare for the placement.
- **Dr.G.Ramesh**, Professor/IT presented Curriculum and Syllabus of I to IV Semester of PG programme M.E. (CSE) (With Specialization in Networks).

### **Suggestions and Recommendations by BOS members for M.E – CSE (WSN) Programme:**

#### **1. Dr. A. Umamakeshwari**

- i. The titles for all the units in Software Architectures and Design should be mentioned like other subjects.
- ii . The text books for all courses in PG syllabus need to be included. All courses are mentioned with reference books only. Text books should be mentioned with edition, year of publication, publisher name properly, member suggested.

#### **2. Dr. Shanmugham R Pandian**

- i. The projects such as Game development, APP development can be included in theory course like DSA to improve programming skills in first semester.
- ii. The number of experiments in lab courses can be reduced and course projects can be included. Also, the member suggested that laboratory components or mini project can be included in the courses like IOT and Wireless Technology.

iii. The PG students should be motivated to do research, to prepare research paper and publish in Scopus and SCI indexed journals. Good UG students also should be identified and encouraged to do research, member told.

### 3. Dr. S. Padmavathi

- i. The new elective courses can be included since the subjects coincide as such with AU Syllabus.
  - ii. The recent editions for the courses need to be included in the syllabus.
  - iii. More importance needs to be given for Term paper writing course in second semester which would be more useful for the student to prepare and publish paper in reputed conference and journal from second semester itself.
  - iv. In first semester course “Advanced Data Structures and Algorithms”, the first unit title may be changed instead of “Role of algorithms in computing”. Since, unit contents focus the analysis part the algorithms.
  - v. The Course name of Data Structures Lab in first semester can be Advanced Data Structures and Algorithms Laboratory.
  - vi. Expert lectures from industry and from reputed institution may be organized for the course like Information Storage Management, digital forensic, 5G technology, SDN etc. For course like ISM, EMC<sup>2</sup> or any other cloud service provider’s syllabus can be referred
  - vii. Case study or mini project in 5<sup>th</sup> Unit can be included wherever possible for improving the quality of learning.
- Principal told that the all the points discussed about reduction in credits can be put up in standing committee of Academic council. After discussing with chairman of other departments the lab courses can be combined with theory to reduce the credits of UG curriculum, he told. Theory cum practical course can be included wherever possible, (in III and IV year) Dr. S. Padmavathi and Dr. Shunmugham R. Pandian suggested.
  - **Dr.P.GaneshKumar** consolidated the comments suggested by expert members of BOS.

Based on the suggestions given by the experts / members, it is resolved to approve the R 2020 B. Tech (Information Technology) and M.E. CSE (WSN) curriculum with the following modifications.

#### UG Programme – B. Tech (IT)

Sl. No.	Comments by BOS Expert / Member	Action Taken
1.	OOAD course can be moved to V semester and Software Engineering course to VI semester.	New course titled Software Engineering Essentials has been included, in fifth semester, which covers both Software Engineering and OOAD concepts.

Sl. No.	Comments by BOS Expert / Member	Action Taken
2.	Ratio between Lecture and Tutorial hour should be either 2:2 or 3:1 (Web Programming in V semester)	Yes. Web Programming course has been included under Theory cum practical with 3L + 2P to have 4 credits.
3.	Entrepreneurship related course can be included.	Yes. Entrepreneur Development Course has been included as Elective.
4.	Embedded systems course can be included as core course instead of elective course.	Yes. Microprocessors and Embedded systems course has been included as core course.
5.	More importance to Big Data Analytics can be given.	Data Analytics core course has been included in the curriculum.
6.	New elective course can be included instead of E commerce.	Yes. Information Storage Management has been included instead of E commerce
7.	Total credits should be reduced as per AICTE revised model curriculum norms	Yes. Total credits have been reduced from 188 to 172.
8.	Minimum and maximum credits assigned to each category of courses like HS, BS, ES, PC, PE, EEC and MC should be clearly mentioned in Curriculum.	The Standing committee of Academic council suggested to follow Anna University guidelines in this regard.
9.	The contribution of credits to be earned by lateral entry students needs to be mentioned.	The Standing committee of Academic council suggested to follow Anna University guidelines in this regard.
10.	Total credit in 3rd semester is 27. This can be reduced by moving one paper to forth coming semesters.	Yes. Total credit in 3rd semester is reduced to 24. ADC has been moved from third semester.
11.	New elective courses more specific to IT can be included.	Yes. New elective courses such as 1.Information Storage Management 2. Building Enterprise Application 3.Evolutionary Algorithms 4. User Interface Design 5. R and Python Programming for Data Science have been included as new elective courses.
12.	The credits in 7 <sup>th</sup> semester can be reduced so as to enable the students to prepare for the placement.	Yes. The total credit in 7 <sup>th</sup> semester has been reduced to 19.
13.	Theory cum practical course can be included wherever possible	Yes. Web Programming and FOSS and Cloud computing courses have been changed as Theory and Practical Course.



### PG Programme – ME (CSE) (WSN)

Sl.No.	Comments by BOS Expert / Member	Action Taken
1.	Titles for all the units in Software Architectures and Design should be mentioned like other subjects.	Yes. Included appropriate titles for all the five units in Software Architectures and Design Course.
2.	Include text books for all courses in PG syllabus. All courses are mentioned with references books only.	Standing Committee of Academic Council suggested to follow AU guidelines in this regard.
3.	Course name of Data Structures Lab in first semester should be Advanced Data Structures and Algorithms Laboratory	Yes. The course name has been changed as Advanced Structures and Algorithms Laboratory (ADSA) Lab.
4.	Include projects such as Game development, APP development in theory course like DSA.	Yes. Applications development have been included in Advanced Data Structures and Algorithms (ADSA) Laboratory.
5.	Number of experiments can be reduced and Mini project can be included in Laboratory.	Yes , number of Experiments are reduced and application development have been included in ADSA Lab.
6.	Mini-project related to courses IOT and Wireless network can be included.	Yes. Mini project on IoT product development and Case study on mobile edge computing in 5G networks have been included and the course outcome have been modified suitably.
7.	Include new elective courses can be included as the curriculum coincide with AU syllabus.	New electives such as, 1. Research methodology and IPR 2. Data Science and Big Data Analytics 3. Deep Learning have been included as new elective courses.
8.	Publisher name and edition must be checked for all the subjects.	Yes. Also, new recent reference books are included for almost all the courses.
9.	Evaluation of Term paper writing should have publication.	Yes. The student must present and publish the work in the reputed International conference / Journal. Evaluation pattern has been changed.
10.	In Advanced Data Structure and Algorithms course the first unit title may be changed instead of “Role of algorithms in computing”.	Yes. The title of the first unit has been changed to Introduction to Algorithm Analysis.
11.	Include case study or mini project for every course in the fifth Unit for improving the quality of learning.	Yes. Mini Project / Case study has been included wherever possible.

All other points suggested by the BOS experts/ Members for curriculum improvement will be considered while framing the syllabus.

Board of Studies recommended the above resolutions to be presented in the **Academic Council for further approval.**

- **Dr.J.S.Kanchana** Associate Professor/IT delivered Vote of Thanks.
- The technical support for the entire meeting was done by **Mr.J.Gautam**, Assistant Professor/IT
- This BOS online meeting came to end at 12:20pm








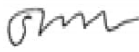





**Dr. R. Alageswaran, Prof. and Head / IT**  
**Chairman / Board of Studies**

**CC to General Body**  
**Academic Council**  
**Coordinator / IQAC**  
**Principal**  
**File**

**K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM - 630 612**  
**(An Autonomous Institution affiliated to Anna University, Chennai)**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**FIRST BoS MEETING on 17.08.2020**

**Members Present:**

S. No.	Name of the member with designation and address	Details of Member	Signature
1	Dr.R.Alageswaran Prof. & HoD Department of Information Technology K.L.N. College of Engineering	CHAIRMAN	
2	Dr.S.Padmavathi Professor Department of Information Technology Thiagarajar college of Engineering	ANNA UNIVERSITY NOMINEE	
3	Dr.Shunmugham R. Pandian Associate Professor IIITDM, Kancheepuram	SUBJECT EXPERT (from outside the Parent University)	
4	Dr. A. Umamakeswari Dean School of Computing, Shanmugha Arts, Science, Technology & Research Academy SASTRA Deemed to be University	SUBJECT EXPERT (from outside the Parent University)	
5	Mr.SathyaNarayana University Focal Honeywell Technologies and Solutions	Industry Expert	sathyanarayan.subbiah@honeywell.com Digitally signed by sathyanarayan.subbiah@honeywell.com DN: cn=sathyanarayan.subbiah@honeywell.com Date: 2021.04.17 19:20:04 +05'30'
6	Ms.M.Priya PHP Developer , Pruvity HR Solutions Pvt. Ltd	Postgraduate Meritorious Alumnus	
7	Mr.A.Muruganantham General Manager Hexaware Technologies	Special invitee	
8	Dr.A.V.Ramprasad Principal K.L.N. College of Engineering,	Special invitee	
9	Dr.G.Ramesh, Professor / IT	Member	
10	Dr.P.Ganesh Kumar, Professor / IT	Member	

11	Dr.J.S. Kanchana , ASP /IT	Member	
12	Dr.S.Ilangovan, ASP / IT	Member	
13	Dr.S.Ilankumaran, ASP / IT	Member	
14	Mr.A.Selvaraj, (Sr. Gr.) / IT	Member	
15	Mr.C.Pandian, (Sr. Gr.) / IT	Member	
16	Mr.M.Satheesh Kumar, AP / IT	Member	
17	Dr.S.Ramesh, AP / IT	Member	
18	Mrs.C.Manjula Devi, AP / IT	Member	
19	Ms.S.Vijayasharmila, AP / IT	Member	
20	Mr.J.Gautam, AP / IT	Member	
21	Mr.V.Aravind Rajan, AP / IT	Member	

# K.L.N. COLLEGE OF ENGINEERING

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

## Department of Master of Computer Applications

Date: 14.08.2020

The first Board of Studies meeting was conducted through online on 14-08-2020(Friday). The meeting was started exactly in the scheduled time 10:00 AM.

### 1. Members of Board of Studies

**CHAIRMAN: Dr. MR.ILANGO, DIRECTOR / MCA**

**The faculty members of MCA department:**

S. No.	Name of the faculty	Designation
1.	Dr. C. Ashok Baburaj	Member, Associate Professor
2.	Dr. S. Suresh Raja	Member, Associate Professor
3.	Mr. R. Somas Kandan	Member, Associate Professor
4.	Dr. S.R. Raja	Member, Associate Professor
5.	Mrs. R. Uma Maheswari	Member, Assistant Professor(Sr.Gr.)
6.	Mrs. M.S.C. Sujitha	Member, Assistant Professor
7.	Mrs. R. Kiruthika	Member, Assistant Professor
8.	Dr. B. Subashini	Member, Assistant Professor

### 2. Subject experts from outside the Parent University

S. No.	Name of Member	Designation / Department	Institution Name
1.	Dr.PL.Chithra	Professor, Department of Computer Science	Guindy Campus, University of Madras, Chennai – 600 025.
2.	Dr. K. Mohan	Associate Professor, Department of Information Security	School of Computer Science and Engineering, Vellore Institute of Technology (VIT), Vellore, India - 632014

### 3. Anna University Nominee

S. No.	Name of Member	Designation / Department	Institution Name
1.	Dr. S. Vijayalakshmi	Professor / Department of Computer Applications	Thiagarajar College of Engineering, Madurai, India – 625025.

### 4. Industry expert

S. No.	Name of Member	Designation	Name of the industry
1.	Mr. Kathir Kamanathan	Chief Executive Officer	Chella Software, No: 5, I Floor, Ishwarya Laxmi Plaza, Lake View Road, K.K.Nagar, Madurai-625 020.

### 5. One postgraduate meritorious alumnus

S. No.	Name of Member	Designation	Name of the Industry/ Institute
1.	Mr. K.M. Yadeesh Kumar	Senior Software Engineer	BNP Paribas Group, Chennai

### 6. Special Invitee

S. No.	Name of Member	Designation	Name of the Industry/ Institute
1.	Dr. A.V. Ram Prasad	Principal	K. L. N. College of Engineering
2.	Dr. R. Alageswaran	HOD / IT, IQAC Coordinator	K. L. N. College of Engineering

### Minutes of the First Board of Studies Meeting – 14.08.2020 (Friday)

The following points were discussed in the meeting.

- **Dr. MR. Ilango, Chairman /BOS** welcomed the members of BOS and Staff members of MCA department.
- First agenda is self introduction of MCA staff members. Staff members introduced themselves by informing their Qualification, Area of interest, over all Experience and Experience in KLNCE. They have also informed about their Ph.D. domain.
- **Mrs. M.S.C. Sujitha, AP / MCA** presented slides about the department. She has presented slides about MCA inception, Initial In-take, Accreditation status, Graduation Results, Rank holders, Placement, National and International Conferences organized by MCA, Paper publications and presentations by MCA staff members and salient features of MCA department.

- **Dr. C. Ashok Baburaj, ASP / MCA** presented a word file to specify the important points in PG regulations which includes common regulations for all PG programmes such as MCA, MBA and M.E.
- **Mr.R.Somas Kandan, ASP / MCA** presented slides to introduce Anna University Representative Dr. S. Vijayalakshmi Professor, TCE, Academic members Dr. PL. Chithra, Professor, Madras University, Dr. K. Mohan, Professor, VIT and Industrial Expert Mr. Kathir Kamanathan, CEO, Chella Software and PG Alumni Mr. K.M. Yadeesh Kumar, BNP Paribas Group.
- **MCA Director Dr. MR. Ilango**, presented curriculum and syllabus of 2020 regulations. He has mentioned about Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Objectives (PSOs) of regulations 2020. He informed that courses are classified as Foundation Courses, Professional Core, Employability Enhance Courses and Professional Electives and audit courses. Totally 20 courses are designated as Professional Cores courses and 16 courses are designated as Professional Electives. Communication Lab, Mini Project and Main project are included in EEC.
- He informed that 51 credits are assigned for first year and 35 credits are assigned for second year. Total credit is 86. Students have to undergo training for value added courses. For online courses, successful completion and certification will enable a student to get exemption from a professional elective.

### **Suggestions and recommendations by BOS members for MCA Programme:**

#### **1. Dr. S. Vijayalakshmi** suggested the following points.

- i.Number of labs in the syllabus may be reduced especially in the third semester.
- ii.Both MAD & WAD lab can be combined as Application Development Lab.
- iii.Check whether Network Security Lab is needed.
- iv. Consider Data Mining & Data warehousing as a core paper.
- v.Addition of recent text books and reference books for Operating Systems course.
- vi.Content of J2EE may be reduced as the syllabus is heavy for the course “Web Application Development”.

**2. Dr. K. Mohan** suggested the following points.

- i. Check whether Computer Organization subject is needed or not. If needed it may be considered as an elective subject and not as a core paper.
- ii. Totally having 19 core and 16 elective papers – try to reduce the core paper and increase the elective paper.
- iii. PG course should emphasize more on elective subjects.
- iv. As per AICTE, MBA has more credit than MCA, so number of credits may be reduced.
- v. SPM should be considered as core paper & not as elective.
- vi. Check whether both Java and Python are needed because both syllabus are overlapping.

**3. Dr. PL. Chithra** suggested the following points.

- i. Combine both Python and Data Structures lab.
- ii. Syllabus is more focusing on networking papers, try to reduce it and focus on Machine Learning, Artificial Intelligence, DIP, Data Analytics.
- iii. Web sources can be included for all subjects.
- iv. One unit of any subject must be given as assignment or self learning using online sources.
- v. Include Soft Computing, Artificial Intelligence & Digital Image Processing as Professional Electives.

**4. Mr. Kathir Kamanathan** suggested the following points.

- i. In future frame the syllabus based on campus recruitment i.e Syllabus must be framed based on where students have to be placed.
- ii. Member requested to conduct a survey among recent alumni students to know that what other technical courses they might have been studied during MCA for better placement and positions.

**5. Mr. K.M. Yadeesh Kumar** suggested the following points.

- i. Member insisted that Artificial Intelligence, Soft Computing may be included either as Elective or Core in the curriculum.
- ii. Member also requested to include ANGULAR JS and NODE JS in the lab cycle programs to enable the students to become full stack web developer.

- **Dr. S.R. Raja** Associate Professor / MCA delivered Vote of Thanks.
- The technical support for the entire meeting was done by **Dr.B.Subashini** Assistant Professor/MCA
- This BOS online meeting came to an end at 12:20 PM.



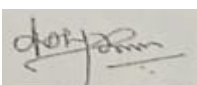
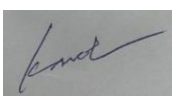
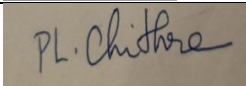
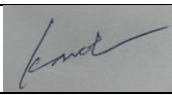

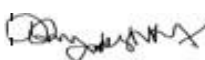


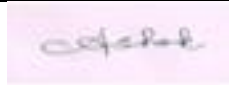
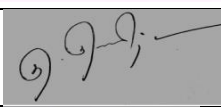
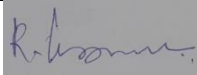
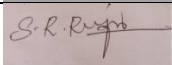

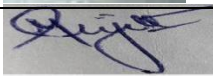
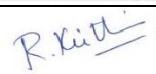
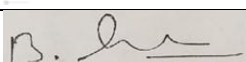
## **Resolutions**

- ❖ As per suggestion, recent text books and reference books have been included for Operating System Course.
- ❖ As per suggestions given by Dr. S. Vijayalakshmi and Dr. PL. Chithra, Network Security Lab is removed from the Syllabus and web programming lab is included in the second semester.
- ❖ As per suggestion given by Dr. K. Mohan, Software Project Management course is included in the third semester as an additional course; so, the number of theory courses in the third semester has been increased to six.
- ❖ As per suggestion given by Dr. S. Vijayalakshmi, both Mobile Application Development Lab and Web Application Development lab are combined together and titled as “Application Development Lab”.
- ❖ “Artificial Intelligence” is included as Professional Elective in the Professional Elective 2 group as per suggestion given by Dr. PL. Chithra.
- ❖ We have decided to keep “Computer Organization” course in the first semester because this is the only course which includes hardware components in our curriculum. Moreover this course is included in all previous Anna University regulations such as regulation 2010, 2013 and regulation 2017. This suggestion may be considered in the next BOS meeting.
- ❖ As per suggestion given by Dr. PL. Chithra, we are happy to inform that some of the MCA students have already undergone NPTEL course training and also got certification.
- ❖ It has been decided to keep both Java and Python theory and lab courses in our curriculum because of potential employability opportunities available for both courses.
- ❖ We have decided to keep “Data Mining and Data Science” course as professional elective. Students will always select this course as elective subject because of its interestingness and also it includes current trends in Data Mining and Data Science.



**Dr. MR. Ilango, Director / MCA  
Chairman / Board of Studies**

Name of the BOS Member	Designation	Signature
Dr. MR. Ilango	Chairman / Board of Studies	
Dr. A. V. Ram Prasad	Special Invitee	
Dr. R. Alageswaran	Special Invitee	
Dr. S. Vijayalakshmi	AU Nominee	
Dr. PL. Chithra	Subject Expert/ Other than Parent University	
Dr. K. Mohan	Subject Expert/ Other than Parent University	
Mr. Kathir Kamanathan	Industry Expert	
Mr. K.M. Yadeesh Kumar	PG Alumnus	

Name of the BOS Member	Designation	Signature
Dr. C. Ashok Baburaj	Member / BOS	
Dr. S. Suresh Raja		
Mr. R. Somas Kandan		
Dr. S.R. Raja		
Mrs. R. Uma Maheswari		
Mrs. M.S.C. Sujitha		
Mrs. R. Kiruthika		
Dr. B. Subashini		



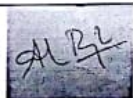
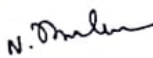
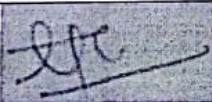
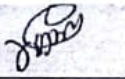
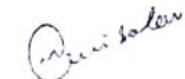
**Dr. MR. Ilango, Director / MCA  
Chairman / Board of Studies**

**K.L.N.COLLEGE OF ENGINEERING, POTTAPALAYAM-630612.****DEPARTMENT OF MANAGEMENT STUDIES**




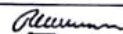
Date: 20.08.2020







The first Board of Studies meeting of Department of Management Studies held on  
20.08.2020 (Thursday) at Zoom Meet.

**Members Present:****I - Details of Expert Members:**

S. No	Name of the Member & Designation	Category	Signature
1.	<b>Dr. K.Arulrajan</b> Professor / Dept of Management Studies, PSG Institute of Management, Coimbatore	Anna UniversityNominee	
2.	<b>Dr.N.Thamaraiselvan</b> Professor, Dept of Management Studies National Institute of Technology, Tiruchirappalli	Subject Expert Member from Outside-ParentUniversity.	
3.	<b>Dr.C.JothiBaskara Mohan</b> Associate Professor & Head - Dept of Business Administration, Thiagarajar College, Madurai	Subject Expert Member from Outside-ParentUniversity.	
4.	<b>Dr. Vijailakshmi Stephen</b> Managing Director, Vijailaskhmi Hitech Solutions, Madurai	IndustryExpert.	
5.	<b>Mr. M.Devibalan</b> Director, Syasans Career Analytics Pvt Ltd, Chennai	Meritorious Alumnus	

**II - Details of Internal Members:**

S. No	Name of the Member	Designation	Signature
1.	<b>Dr.A.V.Ramprasad</b>	Principal, KLNCE	
2.	<b>Dr.T.Jothimurugan</b>	Chairmen – BoS& Director,MBA	
3.	<b>Dr.S.N.R.Srikumar</b>	Professor,MBA	
4.	<b>Dr.R.S.Balasenthil</b>	Associate Professor1	

5.	Mrs.B.Shanthi	Assistant Professor(SG)	
6.	Mr.B.Palanivelrajan	Assistant Professor(SG)	
7.	Dr.K.S.Hariharan	Assistant Professor (Sr.Gr.)	
8.	Mr.T.S.Ramkumar	Assistant Professor(SG)	
9.	Mrs.T.Sownthariya	Assistant Professor I	
10.	Ms.T.ShobanaDevi	Assistant Professor I	

In the beginning of the meeting, Dr.A.V.Ramprasad, Principal, K.L.N.College of Engineering welcomed all members and briefed them about the Department of Management Studies. The BOS members highly appreciated and expressed their satisfaction.

At the outset, Dr. T. Jothimurugan, Director also welcomed all the members for the First Board of Studies meeting and he highlighted about department activities and achievements. He briefed the syllabus formation and regulations. He requested Dr.R.S.Balasenthil-Associate Professor 1, MBA to present the curriculum and syllabus of MBA program in the meeting.

Members of the BOS discussed the following points:

**The following suggestions were given by Dr.K.Arulrajan:**

- Objectives of the subject to be set in a single paragraph and Programme Outcome and Course Outcome are to be mapped.
- As the students of MBA join from various undergraduate streams, the number of subjects per semester have to be reduced from the existing eight papers so as to reduce the burden of students.
- It was recommended Latest text books, preferably published after year 2015 onwards should be prescribed for all subjects. Reference books may be of old editions.
- The overall credit for the curriculum can be increased up to 92.
- In the first semester the subject 'Management and Organizational Behavior' should have 4 credits instead of 3. The first two units should cover the 'Principles of Management' and the last three units have to cover 'Organizational Behavior'.
- To have 4 credits for most of the papers in the second semester.
- In 3<sup>rd</sup> semester the Marketing elective paper 'Social Marketing' has to be replaced with 'Digital Marketing'.
- Entrepreneurship Development paper has to be taught in 4<sup>th</sup> Semester instead of 3<sup>rd</sup> semester, so keep the student in contact with the institution during final semester.



**The following suggestions were given by ByDr.N.Thamaraiselvan:**

- Suggested to shift Total Quality Management paper from I to III semester.
- Insisted to have a unit for 'Principles of management' in 'Management and Organizational Behavior' paper and 2 units each for Individual Behavior and Group Behavior.
- It was suggested to include some basic topics like average etc. in the first semester paper Statistics for managers and offer practical exposure for that through some basic software.
- It was suggested to reduce the number of subjects in 1<sup>st</sup> Semester since it has very short period of time and the remaining can be given in the upcoming semesters.
- It was advised to have 1 or 2 core papers in IV semester or offer some elective papers in the IV semester so that the students may be in contact within the campus and this may be useful for their placement.
- It was insisted to give a course or certification over Lifeskill
- It was suggested to have 2 credits for Business communication as it is a Professional Development course.

**The following suggestions were given by ByDr.C.JothiBaskara Mohan:**

- It was recommended to have Organizational Development and Organizational Climate to be added in Unit 5 in Organizational Behaviour since the students may have the knowledge over the elective paper Organizational theory, Design and Development and to add a subject on stress management.

**Suggestions by Dr. Vijailakshmi Stephen:**

- It was suggested to have 5 or 6 papers in theory and 1 or 2 papers for lab which will be helpful for the students to enhance their practical knowledge.
- It was suggested to conduct more certification oriented programs for the students. And also offer more Workshops for the students by offering Certificates.
- Recommended to have Module 1 and 2 for Business Analytics lab.
- It was suggested to give more importance on these two papers which the industry needs now (Digital Finance and Digital Marketing).
- It was suggested that each and every student should have a digital documentation and international certificate before the final semester. It was also suggested that students should be encouraged towards paper presentation and journal publications.

**Suggestions by Mr. M.Devibalan:**

- It was suggested to give inputs on Creative expressions in Business communication which will help the students for placement.

**Following are the resolutions and outcome made in the meeting.**

**I. The following resolutions have been carried out in the course titled -'20MB102 Management Concepts & Organizational Behavior', offered in the Firstsemester**

- 1) Unit 1-Introduction to management; Unit 2 – Planning and organizing; Unit 3- controlling ; Unit 4 – Introduction to OB & Individual behavior; Unit 5- Leadership & Motivation  
are modified as

Unit 1-Introduction to management; Unit 2 – Managerial Functions; Unit 3- Introduction to OB & Individual behavior ; Unit 4 – Group Behavior; Unit 5- Leadership & Motivation

- 2) Number of credits has been increased from 3 to 4 for this subject.

**II. The following resolutions have been carried out in the course titled "Statistics for Management" (20MB105), offered in the First semester of Master of Business Administration programme**

1. **Unit- I** has been changed to **Unit-V**
2. **Unit-II, III, IV, V** has been reordered as **Unit- I, II, III, IV.**
3. Six course outcomes have been framed.
4. The books, **Statistics for Management** by **K. Subramanian** and **A.Santha** and **Statistics for Management** by **Srivatasva TN** and **Shailajarega** are included in the reference booklist.
5. The following books are removed from the reference booklist
  - **"Complete Business Statistics** by **Aczel A.D. and Sounderpandian J**
  - **An Introduction to Statistical Learning with Applications in R** by **Gareth James, Daniela Witten, Trevor Hastie, Robert Tibshirani**
  - **Introductory Statistics** by **Prem.S.Mann**
6. Number of credits has been increased from 3 to 4

**III. The course titled - '20MB106' Total Quality Management', offered in the Firstsemester has been shifted to Third semester with paper code 20MB302**

**IV. The course titled -'20MB205' Information Management', offered in the Second semester has been shifted to First semester with paper code 20MB106**

**V. The course titled -'20MB107' Business communication skills' is removed from the First semester. Instead of that a Practical course titled – '20MB4E1 Managerial Skills' is introduced in the Fourth semester comprising of Communications skills.**

**VI. The course titled -'20MB1E1' Business Data Analysis', offered in the First semester is retitled as - 'Business Data Analysis - 1'**

**VII. The following resolutions have been carried out in the course titled Applied Operations Research (20MB201), offered in the Second semester**

1. Title has been renamed to **"Operations Research for Management"** instead of **"Applied Operation Research"**
2. Six course outcomes have been framed.



3. Text books have been removed and the following books are included in reference.

**Operations Research by Pannerselvam**

**Quantitative Techniques in Management by N. D Vohra**

The book titled "Introduction to Management Science" by **Bernard W. Taylor** has been removed from the reference booklist

4. Number of credits has been increased from 3 to 4 for this course.

**VIII.** Number of credits has been increased from 3 to 4 in the following second semester courses:

**Financial Management, Human Resource Management, and Operations Management**

**IX.** The course titled - '20MB2E1 Business Data Modeling', offered in the second semester has been retitled as - 'Business Data Analysis -2'

**X.** The course code titled - '20MB302 Strategic Management', offered in the third semester has been changed to **20MB301** and the number of credits has been increased from 3 to 4

**XI.** In Marketing Elective two papers - Brand Management (20MB3M1), and Social Marketing (20MB3M7) - have been replaced with - Digital Marketing (20MB3M6), and Supply Chain Management (20MB3M8).

**XII.** In Human Resource Management Elective, a new paper - 'Stress Management and Counseling (20MB3H7)' has been added.

**XIII.** The course titled - '20MB301 Entrepreneurship Development', offered in the Third semester has been shifted to Fourth semester with paper code 20MB401

**XIV.** Objectives for all courses have been set in a single paragraph. Latest text books, published in the year 2015 or latter are prescribed for all subjects.

Finally, **Mrs.B.Shanthi**, Assistant Professor (SG) / MBA, thanked all the members for their kind cooperation and for giving valuable suggestions for the enhancement of curriculum and syllabus.



**Dr.T.Jothimurugan, Director / MBA  
Chairman / Board of Studies**

**CC to: GB, ACM, Principal and IQAC  
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**K.L.N. College of Engineering**  
(An Autonomous Institution Affiliated to Anna University, Chennai)  
Accredited by NAAC  
Pottapalayam- 630 612, Sivagangai District, Tamilnadu.



06/09/2020

Board of Studies meeting – 31<sup>st</sup> August 2020  
DEPARTMENT OF SCIENCE AND HUMANITIES





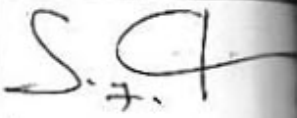


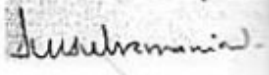
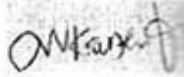
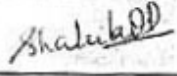
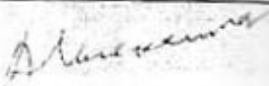
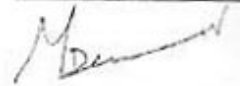
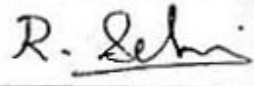

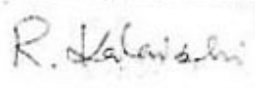

**Minutes of the Meeting**

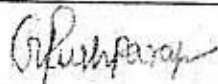
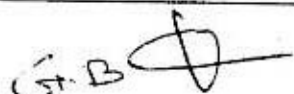
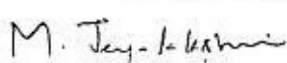
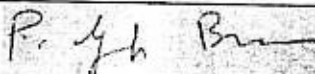
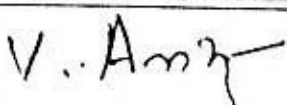
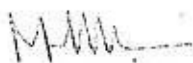
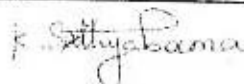
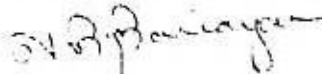

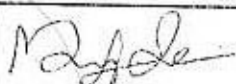
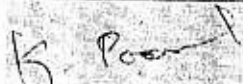

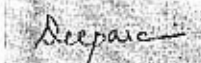

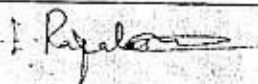
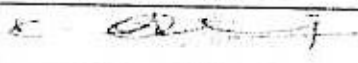
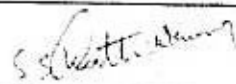
First Board of Studies Meeting (through online-<https://us02web.zoom.us/j/5897343816?pwd=Z3daVUhqSXFsMk5MOXIYUkNUOEhNdz09> Meeting ID: 589 734 3816 Passcode: 20TBTj) for Science and Humanities Department (Maths, Physics, Chemistry, English) held on 31<sup>st</sup> August 2020 at 2:00pm.

**Members Present:**

No	Name, Designation and College Details	Details of Members	Signature
1.	Dr. J.K. Subashini, Professor & Head / Mathematics	Chairman	
2.	Dr. G. Senguttuvan, Professor & HOD, Department of Physics & Nanoscience and Nanotechnology, UCE, BIT campus Anna university, Tiruchirapalli	Anna University Nominee	
3.	Dr. S. Rajakarthiyan Assistant Professor, Physics Thiagarajar college, Madurai	Subject Expert outside the Parent University	
4.	Dr. V. Sridevi Associate Professor & Head, Chemistry Lady Doak college, Madurai	Subject Expert outside the Parent University	
5.	Dr. S. Jeya Bharathi Professor & Head, Mathematics Thiagarajar College of Engineering, Madurai	Subject Expert / Mathematics	
6.	Dr. P. Pirabakaran Assistant Professor, Mathematics, Anna University College of Engineering Dindigul	Subject Expert / Mathematics	
7.	Dr. V. Gayathri Associate Professor, Nanomaterials Research Laboratory, Department of Physics, Thiagarajar College of Engineering, Madurai	Subject Expert / Physics	
8.	Dr. V. K. Sivasubramanian Principal, K.L.N. Arts and Sciences college, Pottapalayam, Sivaganga	Subject Expert / Chemistry	
9.	Dr. M. Kottaisamy, Professor & Head, Chemistry, Thiagarajar College of Engineering, Madurai	Subject Expert / Chemistry	



10.	Dr. R. Subramania Pillai, Associate Professor & Head, English, Anna University College of Engineering, Dindigul	Subject Expert / English	
11.	Mr. Rubesh Babu Takku Mohan, Director, T.K.D. Enterprise Pvt. Ltd., & Shri Sarathi Garments Pvt. Ltd., Madurai	Industry Representative	
12.	Dr. S. Rajaram Managing Director First Class Wire Netting Company, Madurai	P.G. Alumnus	
13.	Dr. A. V. Ramprasad, Principal	Special Invitee	
14.	Dr. S.M.Kannan Professor & Head Department of EEE K.L.N. College of Engineering	Special Invitee	
15.	Dr. V. Kajalakshmi Professor & Head, Department of ECE K.L.N. College of Engineering	Special Invitee	
16.	Dr. Gandhidasan Retd. Professor, Chemistry	Special Invitee	
17.	Mr. K.S.K. Subramanian Retd. Professor, Mathematics	Special Invitee	
18.	Mr. N.V. Karthikeyan, Associate Professor & Head / Physics	Member	
19.	Mrs. O.D. Shakila, Associate Professor & Head/Chemistry	Member	
20.	Dr. A. Raviakkumar, Professor & Head / English	Member	
21.	Dr. M. Deverajan, Professor / Mathematics	Member	
22.	Dr. R. Selvarani, Associate Professor / Mathematics	Member	
23.	Dr. S. Sabarinathan, Assistant Professor (SG) /Mathematics	Member	
24.	Mrs. R. Kalaiselvi, Assistant Professor / Mathematics	Member	
25.	Mrs. M. JansiSelva Rani, Assistant Professor / Mathematics	Member	

Mr. G. Pushparajan, Assistant Professor / Mathematics	Member	
Mr. G. B. Kannan, Assistant Professor / Mathematics	Member	
Mrs. M. M. Jeyalakshmi, Assistant Professor / Mathematics	Member	
Mr. P. Ganesh Babu, Assistant Professor / Mathematics	Member	
Mr. V. Ananth, Assistant Professor / Mathematics	Member	
Mrs. M. Nancy Femila, Assistant Professor / Mathematics	Member	
Mrs. K. Sathyabama, Assistant Professor / Mathematics	Member	
Dr. N. R. Ramanujam, Associate Professor / Physics	Member	
Dr. R. Geetha, Associate Professor / Physics	Member	
Mrs. M. Manjula Devi, Assistant Professor / Physics	Member	
Mr. K. Poovendran, Assistant Professor / Physics	Member	
Mrs. R. Susila, Assistant Professor / Physics	Member	
Dr. G.J. Deeparani, Associate Professor/ Chemistry	Member	
Mr. T.D. Kishorilal, Assistant Professor/ Chemistry	Member	
Mrs. E. Rajalakshmi, Assistant Professor/ Chemistry	Member	
Mr. K. Ayyampandi, Assistant Professor/ Chemistry	Member	
Mr. S.S. Karthick Kumar, Assistant Professor/ English	Member	

The meeting started with the screen sharing information by the Chairman of BoS, Science and Humanities  
 Dr. J.K. Subashini, Professor & Head, Mathematics. Dr.A. Raviekkumar, Professor & Head, Department of

English delivered the Welcome Address. Dr.R.Geetha introduced the AU Nominee and all the subject experts.

Then Dr. A.V.Ramprasad, Principal offered special address. He elaborated the fame, excellence and merits of the institution. He made a specific account on attaining the Autonomous status.

This was followed by Dr.J.K. Subashini, Professor & Head, Mathematics presenting Curriculum and Syllabi of I B.E./B.Tech., courses under Science and Humanities covering the Mathematics, Physics, Chemistry and English for the first and the second semesters. She then continued the presentation of syllabi for I B.E./B.Tech., first and second semesters. Further she presented syllabi for PG courses M.E. Communication Systems first semester, M.E. CSE (with specialization in Networks) first semester, MBA first and second semesters, MCA first semester.

The AU Nominee and all the subject experts made their comments, recommendations and remarks for individual subjects. Dr.J K Subashini, Professor & Head, Mathematics explained, justified and took note on certain points for ratification.

This was followed by the presentation of syllabi for I B.E./ B.Tech., Physics subjects for Mechanical Engineering and Automobile Engineering, EEE&EIE, CSE&IT and ECE separately.

Prof. N.V. Karthikeyan, HOD, Physics presented syllabi of theory and practical for both the semesters. The AU Nominee offered his comments recommendations and remarks on the syllabi and made some observations for common title for all branches. He further offered observations on modifications within the unit contents. Subject experts also came out with their recommendations. Prof. N.V. Karthikeyan HOD, Physics explained the grounds on framing the syllabi so and agreed to go along with observations from AU Nominee and subject experts.

Then Dr. G.J. Deeparani, Associate Professor, Chemistry presented the syllabi of theory and practical for Chemistry subject. AU Nominee and subject experts offered their remarks recommendations and observations on essential topics for engineering stream.

Subject experts of Chemistry stressed upon inclusion of laboratory experiments in correspondence with the theoretical topics.

Dr.G.J.Deeparani, explained the inclusion of important topics for engineering learning. She agreed to go with the observations made by the AU Nominee and subject experts.

Finally Dr. A. Raviakkumar Professor & Head, Department of English presented the syllabus for the first and second semester theory subjects Technical Communication (20HS101), Advanced Technical Communication (20HS201), and Communication Skills laboratory (20HSL1).

As for the presentation of English course the subject expert Dr. R. Subramania Pillai, Associate Professor & Head, English, Anna University College of Engineering, Dindigul expressed his satisfaction over the design title of the subjects and individual units. He appreciated the contents of the syllabus for all the subjects and advised not to reduce the volume of the same.

He came out with two remarks. The first one related to the number of lecture hours to match the contents of the theory subjects. The second remark related to the modification of the title for Unit IV in second semester theory ADVANCED TECHNICAL COMMUNICATION (20HS201).

Anna University nominee Dr. G. Senguttuvan, Professor & HOD, Department of Physics & Nanoscience and Nanotechnology, UCE, BIT campus, Anna university, Tiruchirapalli expressed his satisfaction and

approval on all aspects related to the curriculum and syllabus. He advised to carry out the remarks expressed by the subject expert. Accordingly AU nominee's recommendations have been carried out to finalize the curriculum and syllabus.

Dr. G.J. Deeparani, Associate Professor, Chemistry offered Vote of Thanks to the gathering. Meeting came to an end at 5:30 pm.

Following are the observations made / suggestions given by Anna University Nominee and respective Subject experts.

#### **I. Department of Mathematics**

**Dr. G. Senguttuvan, Anna University nominee suggested the following:**

- I. Uniformly two or three objectives may be framed in each course
- II. At least five Course outcomes may be framed for each course.

**Dr. S. Jeyabharathi suggested the following :**

- I. James Stewart book may be included in the first and Second semester Mathematics course.
- II. In the second semester course "Laplace transform and Advanced Calculus (20BS201)", the topic semi circular contour may be removed in Unit V.
- III. In PG syllabus at least five reference books covering one or two units may be given.
- IV. In the first semester MCA course titled "MATHEMATICAL FOUNDATIONS FOR COMPUTER APPLICATIONS" (20MC101), some topics like Predicate Calculus, Propositions Calculus and NFA regular languages may be included. Also, the book "Discrete Mathematical Structures with applications to Computer Applications" by Trembley J.P and Manohar may be added in the reference.
- V. In the Second Semester MBA course, the title "Applied Operations Research" may be changed.

#### **Meeting Follow up -Actions Taken**

**I. The following correction have been carried out in the course titled "Fundamentals of Engineering Mathematics (20 BS101)", offered in the First semester of all B.E/B.Tech programmes**

- -Section numbers (in brackets) are removed in "Calculus, Early Transcendental" by James Stewart .

**II. The following corrections have been carried out in the course titled "Laplace transform and Advanced Calculus (20BS201)", offered in the Second semester of all B.E/B.Tech programmes.**

1. In Unit 5 semicircular contour topic has been removed.
2. "Calculus, Early Transcendental" by James Stewart has been added in the reference book list

**III. The following corrections have been carried out in the course titled, "APPLIED MATHEMATICS FOR COMMUNICATION ENGINEERS" (20MA101), offered in the First semester of M.E (Communication Systems) Programme.**

- Five reference books are given, each covering one or two units.

**IV. The following corrections have been carried out in the course titled, "APPLIED PROBABILITY AND STATISTICS" (20MA102), offered in the First semester of M. E. CSE (With Specialization in Networks) Programme.**

1. General CO covering all the units has been removed.
2. Two COs have been framed for Unit II.
3. In the references, the following new edition books have been included.



- Devore, J. L., "Probability and Statistics for Engineering and the Sciences", 8th Edition, Cengage Learning, 2015.
- Richard A. Johnson and Dean W. Wichern, "Applied Multivariate Statistical Analysis", 6th Edition, Pearson Education, Asia, 2007.

V. The following corrections have been carried out in the course titled **"MATHEMATICAL FOUNDATIONS FOR COMPUTER APPLICATIONS"** (20MC101), offered in the First semester of Master of Computer Applications Programme.

1. In Unit- III (Mathematical logic) has been replaced with the topics given in Anna University regulation 2017 syllabus.
2. In Unit- V- The topics NFA and Regular languages are included.
3. **"Discrete Mathematical Structures with applications to Computer Applications"** by Trembley J.P and Manohar has been added in the reference book list.
4. **"Engineering Mathematics"**, Volume II by M.K.Venkataraman is removed and **"Discrete Mathematics"** by M.K.Venkataraman has been included.

VI. The following corrections have been carried out in the course titled **"Statistics for Management"** (20MB105), offered in the First semester of Master of Business Administration programme

1. Unit- I is given as Unit- V and Unit-II, III, IV, V are given as Unit- I, II, III, IV.
2. The books, Statistics for Management by K. Subramanian and A.Santha and Statistics for Management by Srivastava TN and Shailaja rega are included in the reference book list.

VII. The following corrections have been carried out in the course titled **Applied Operation Research** (20MB201), offered in the Second semester of Master of Business Administration programmed

1. Title has been changed to **"Operations Research for Management"** instead of **"Applied Operation Research"**
2. Text books are removed and the following books are included in reference.  
Operations Research by Pannerselvam  
Quantitative Techniques in Management by N. D Vohra

2. Department of Physics

Observations made / Suggestions given by Anna University Nominee and Subject Experts:

Dr. G. Senguttuvan, Anna University Nominee

- I. For each unit, at least two objectives and one Course outcome may be given. Also, a same bullet has to be used for all subjects.
- II. In the first semester course **"Foundation of Engineering Physics (20BS102)"**, subject title has to be changed. It may be **"Fundamentals of Engineering Physics"** or **"Physics for Engineers"** or just **"Engineering Physics"**. Also, subject titles of Physics and Chemistry should be in similar manner.
- III. In the list of experiments offered for **Basic Science Laboratory (20BS1L1) - Physics laboratory**, use 'R' in **"rigidity modulus"** in the first experiment. Also, in the fifth experiment **"bandgap of semiconductor"** may be written as **"bandgap of semiconductor diode"**. One 'demo experiment' may be identified.
- IV. In one of the second semester courses, **Applied Materials Science (20BS202)** offered to B.E. Mechanical & Automobile Engineering branches, Subject title may be changed as **"Applied Physics"**.
- V. In other two second semester courses, **Physics for Electronics Engineering (20BS203)** and **Physics for Information Science (20BS204)**, one more reference book has to be included.

Dr. S. Rajakarthishan, Subject Expert from Outside the University

- I. In **Applied Materials Science (20BS202)**, title may be changed as "Applied Physics" or "Advanced Materials Physics". He agreed with AU nominee.
- II. In UNIT - III of the same course, some of the topics are same as in first semester course. The repeated topics have to be removed; instead relevant topics have to be included. AU nominee agreed with him.
- III. In the list of text books, Page number of the topics covered in the syllabus may be included for the convenience of students.

#### **Dr.V.Gayathri, Subject Expert from Parent University**

As the expert was not able to interact with the members due to audio interruption, she followed the meeting and sent her suggestions through email.

- I. In UNIT - I of first semester course, remove "Three" from "Three moduli of elasticity".
- II. In UNIT - II of the same course, replace "Solid lasers" with "Solid state laser".
- III. In the first experiment of **Basic Science Laboratory (20BS1L1) - Physics laboratory**, replace 'Torsion' with 'Torsional'. In fourth experiment, method or apparatus to be used may be included.
- IV. In the third course outcome of the same course, replace 'LASER' with 'laser light'. In fifth course outcome, 'Examine' may be changed as 'Estimate'.
- V. In **Applied Materials Science (20BS202)** course, title may be changed as "Advanced Materials Science". Third objective may be the first one.
- VI. In UNIT - I of **Physics for Electronics Engineering (20BS203)** course, 'Expression for electrical...' may be replaced to 'Derivation of electrical...'.
- VII. In UNIT - V of **Physics for Information Science (20BS204)** course, 'Types of carbon nanotubes' and 'Introduction to Quantum computation' may be included.

#### **Meeting Follow up -Actions Taken**

- I. Required objectives and course outcomes have been supplied.
- II. In the first semester course "**Foundation of Engineering Physics (20BS102)**",
  - a. Subject title has been changed as "**Engineering Physics**". Course title of Chemistry is also changed accordingly.
  - b. In UNIT - I, "Three" from "Three moduli of elasticity" has been removed.
  - c. In UNIT - II, "Solid lasers" is replaced with "Solid state laser".
- III. In the syllabus offered for **Basic Science Laboratory (20BS1L1) - Physics laboratory**,
  - a. 'Demo experiment' is identified and indicated in the syllabus.
  - b. "rigidity modulus" is changed as "Rigidity modulus" and "Torsion" is replaced with "Torsional" in the first experiment.
  - c. Apparatus to be used is included as "using Ultrasonic Interferometer" in the fourth experiment.
  - d. 'diode' is inserted after "bandgap of semiconductor" in the fifth experiment.
  - e. In the third course outcome, 'LASER' is replaced with 'laser light'. In fifth course outcome, 'Examine' is changed as 'Estimate'.
- IV. In one of the second semester course, **Applied Materials Science (20BS202)**,
  - a. Subject title has been changed as "**Applied Physics**".
  - b. No changes have been done in the order of objectives as it is in unit wise order.
  - c. Title of UNIT - III is changed as "**Non Destructive Testing Methods**" and the repeated topics are replaced relevantly.

- V. In second semester courses, **Physics for Electronics Engineering (20BS203)** and **Physics for Information Science (20BS204)**,
- In UNIT – I, 'Expression for electrical...' is replaced by 'Derivation of electrical...'.
  - Types of carbon nanotubes has been included UNIT – V of both the courses and 'Introduction to Quantum computation' is included in the course '**Physics for Information Science (20BS204)**'
  - The following reference book has been included in both the courses, "**N. Garcia and A. Damask, "Physics for Computer Science Students", Springer Verlag, 2012**".
- VI. As per AU nominee's suggestion, students have to go through the book and identify the topics. Hence, the page numbers are not included in the list of text books.
- \* The modified title is incorporated in the syllabus.

## Department of Chemistry

Following are the observations made / suggestions given by AU Nominee and respective Subject experts.

**Dr. G. Senguttuvan, AU nominee suggested the following:**

In the course "Basics of Engineering Chemistry (20BS103)", the course title has to be changed. Also, course title of Physics and Chemistry should be in similar manner.

**Dr. V. Sridevi, suggested the following:**

1. In the "Basics of Engineering Chemistry (20BS103)", in UNIT I – Water and its Treatment, to add applications of nanomaterials.
2. In the "Basics Science Laboratory (20BS1L1)", in 3<sup>rd</sup> experiment, to expand DO as Dissolved oxygen.

**Dr. M. Kottaisamy suggested the following:**

1. In the "Basics of Engineering Chemistry (20BS103)", in UNIT I – Water and its Treatment, to include Electrodialysis.
2. In UNIT – III, Electrochemistry and Corrosion, to add factors affecting electroplating and Corrosion Inhibitors and to remove some topics like Potentiometric, conductometric titrations or some topics.
3. In UNIT – V, Analytical Techniques, to remove the word "simple" in the simple applications of UV, IR, and to remove Gas Chromatography.
4. The course outcomes should be in simple sentence.
5. In the "Basics Science Laboratory (20BS1L1)", in 3<sup>rd</sup> experiment, to expand DO as Dissolved oxygen as suggested by Dr. V. Sridevi.
6. To change the course outcomes of Basic Science Laboratory.

### Meeting Follow up -Actions Taken

The following corrections have been carried out in the course titled "Basics of Engineering Chemistry (20BS103)",

1. Subject title has been changed as "Engineering Chemistry"
2. In Unit-I, "Electrodialysis method and Application of nanomaterials for water purification" have been included.
3. In Unit –II, "Measurement of EMF, Conductometric and Potentiometric titration" have been removed and "Factors affecting electroplating and Corrosion Inhibitors" are included.
4. In Unit – V, In "Simple applications of UV and IR spectroscopy" the word "simple" is removed and "Gas Chromatography" is also removed.
5. Course outcomes are modified into simple sentences.



#### 4. Department of English

##### Recommendation of the Subject Expert

Dr. R. Subramania Pillai, Associate Professor & Head, English Anna University College of Engineering recommended to modify Unit-IV title in the Second Semester 20HS201 – ADVANCED TECHNICAL COMMUNICATION

The number of lecture hours should be increased as 4 lecture hours to match the contents of the theory subjects

##### Meeting Follow up -Actions Taken

Unit – IV title has been modified as **EMPLOYABILITY CORRESPONDENCE** and the same incorporated in the syllabus.

Planned to allocate FOUR lecture hours in the timetable

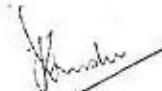
##### Comments by the Anna University Nominee

Dr. G. Senguttuvan, Professor & HOD, Department of Physics & Nonoscience and Nanotechnology, UCE, BIT campus, Anna University, Tiruchirapalli satisfied and approved all aspects related to syllabus.

He advised to carry out the remarks given by the subject expert.

##### Meeting Follow up -Actions Taken

As per the recommendations, Modifications have been incorporated in the syllabus with the concurrence of the subject expert.



Chairman/BOS S&H Department  
Dr. J.K. Subashini, Professor & Head / Mathematics

CC:

1. General Body
2. Academic Council
3. Principal
4. File