



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C.Nagar, K.Vellakulam - 625 701, (Near Virudhunagar), Madurai District.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**Minutes of Meeting —BoS—7<sup>th</sup> May, 2021**

**MINUTES OF THE 2<sup>nd</sup> ONLINE MEETING**

**BOARD OF STUDIES OF U.GProgram :B.E (Computer Science and Engineering)**

**DATE:** 7<sup>th</sup>May, 2021, Friday

**Time:** 11.15 AM – 1.00 PM

**PLATFORM:**Microsoft Teams

**Meeting Recording link :**

[https://kcetvnro.org-my.sharepoint.com/:v:/g/personal/ramyacse\\_kamarajengg\\_edu\\_in1/ER8i19-S1tZDnK1LJy5TJ2MBMvKEmF1dSPLwdD54qjHFmw?e=1EeuSc](https://kcetvnro.org-my.sharepoint.com/:v:/g/personal/ramyacse_kamarajengg_edu_in1/ER8i19-S1tZDnK1LJy5TJ2MBMvKEmF1dSPLwdD54qjHFmw?e=1EeuSc)

**IN ATTENDANCE:**

S.No	Name of the Expert	Designation	Capacity
1.	Dr.R.B.V.Subramaanyan, Professor and Head, Department of Computer Science and Engineering	National Institute of Technology, Warangal E-mail ID: rbvs66@nitw.ac.in Phone No: 9491346969	Academic Council nominated Expert Members
2.	Dr.SabuM.Thampi Professor	Indian Institute of Information Technology Management-Kerala, Trivandrum E-mail ID: sa- bu.thampi@iiitmk.ac.in Phone No: 9447103005	



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3	Mr.G.S.Raman, Director, Training Division	Sri Moogambikai Infotech Solutions, Madurai raman.g@mookambikainfo.com <a href="mailto:ramansriranga@gmail.com">ramansriranga@gmail.com</a> Phone No: 8870324388	Industrialist
4	Dr.R.Venkatesan, Assistant professor, CSE	Karunya University, Coimbatore <a href="mailto:rlvenkei2000@karunya.edu">rlvenkei2000@karunya.edu</a> Phone No: 98948 80563	Alumni

FACULTY OF COMPUTER SCIENCE AND ENGINEERING		MEMBERS
S.No	Name of the Faculty	Designation
1	<b>Dr.A.Meenakshi</b>	Associate Professor and Head
2	<b>Dr.M.IndraDevi</b>	Professor PG (M.E - CSE) Programme Co-ordinator
3	<b>Dr.R.Muthuselvi</b>	Professor
4	<b>Dr.A.Anandh</b>	Associate Professor / CSE UG (AI &DS) Programme Co-ordinator
5	<b>Dr.R.Ramya</b>	Assistant Professor / CSE UG (CSE) Programme Co-ordinator
6	<b>Mr.L.Prabakar</b>	Assistant Professor / CSE
7	<b>Dr.V.SuthaJebakumari</b>	Assistant Professor / CSE
8	<b>Mr.G.Srinivasan</b>	Assistant Professor / CSE
9	<b>Mr.B.Muthukrishnavinayagam</b>	Assistant Professor / CSE



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10	<b>Mrs.K.Muthulakshmi</b>	Assistant Professor / CSE
11	<b>Mrs.P.Swathika</b>	Assistant Professor / CSE
12	<b>Ms.S.Janani</b>	Assistant Professor / CSE
13	<b>Mrs.T.Maharajothi</b>	Assistant Professor / CSE
14	<b>Ms.G.Nirmala</b>	Assistant Professor / CSE
15	<b>Mr.M.Rajasekaran</b>	Assistant Professor / General Engg
16	<b>Ms.G.Vijayalalitha</b>	Assistant Professor / CSE
17	<b>Dr.P.Praveen Kumar</b>	Assistant Professor / AI & DS
18	<b>Mrs.M.Kanimozhi</b>	Assistant Professor / AI & DS
19	<b>Ms.T.Rajashree</b>	Assistant Professor / AI & DS

**THE MINUTES:**

The meeting is called for considering the Undergraduate (B.E - CSE) curriculum & syllabi.

**DISCUSSIONS:**

1. Dr.A.Meenakshi, welcomed the gathering and introduced the external members. She presented the Vision, Mission, of the Department and also presented the PEO and PSO of the program, B.E(CSE).
2. Dr.A.Meenakshi discussed about the Minutes of the first BoS, the action taken and the ratification carried out in the curriculum and syllabi.
3. Dr.A.Meenakshi discussed about the Proceedings of 1<sup>st</sup> Academic Council Meeting held on 17th July 2020 to the experts. The highlights of the discussion were as follows:



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	<p><b>Recommendations from the Governing Body and Academic Council for Framing UG Curriculum(CSE)</b></p>	<p>Credit range: 165 – 170                  20 – 24 credit per Semester.                  VIII Sem Project Work: 8 – 10 credits                  Online Course (Maximum 6 credits)                  Audit Course (Mandatory non credit)                  First semester is common for all Programme                  First year credit range : 40 – 42                  Engineering Graphics to be in II Semester                  Programme specific papers could be offered in II Sem.                  AICTE &amp; AU 2019 curriculum could be taken as base for framing curriculum.                  III Sem Mathematics (Programme specific)                  Mandatory</p>
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**B.E (CSE) curriculum discussion:**

4. Dr.A.Meenakshi presented the B.E(CSE) curriculum.
5. Dr.R.B.V.Subramaanyan inquired about the title “Listening and Speaking” , if it is correct. Dr.A.Meenakshi replied that it was approved in the Board of studies of the English Department.
6. Dr.Sabu.M.Thampi inquired whether there is any syllabus on “Technical Communication” and Dr.A.Meenakshi replied that it is in Semester VI as Professional Communication.
7. Dr.R.B.V.Subramaanyan and Dr.Sabu.M.Thampi suggested to change the title of the subject Software Engineering with UML diagrams as Software Engineering with UML Design.
8. Dr.R.B.V.Subramaanyan suggested to distribute the credit as 1.5 for (DBMS – 3hrs, Algorithms Lab – 3hrs) in Semester IV. He also suggested to have DAA Lab separately instead of combining with Theory.
9. Dr.R.B.V.Subramaanyan asked whether Operating System is included in syllabus. Dr.A.Meenakshi replied that it is offered as System programming and Operating Systems in semester III.



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10. Dr.R.B.V.Subramaanyan and Dr.Sabu M.Thampi, suggested to interchange Design and Analysis of Algorithms from Semester IV to Semester V and Computer Networks with lab from Semester V to Semester IV.
11. Dr.Sabu M.Thampi, suggested to have Big Data analytics Lab. Dr.A.Meenakshi replied that it is given as Big Data Analytics- Tools and Techniques in professional elective course.
- ~~12.~~ Dr.R.Venkatesan asked whether the different domains will be specified anywhere in the marksheet of the student. Dr.A.Meenakshi replied that such information will not be provided in the marksheet.
13. Dr.Sabu.M.Thampi suggested offering Industrial IoT as Open elective. Dr.A.Meenakshi acknowledged that it is offered by the other Department.
14. Dr.Sabu.M.Thampi suggested to have MongoDB in the Syllabus, Dr.A.Meenakshi replied that it is given as valued added course.
15. Dr.R.Ramya presented the detailed syllabus of B.E(CSE)
16. Dr.R.B.V.Subramaanyan suggested to change the Data Structures lab as Data Structures Laboratory using Python.
17. Dr.R.B.V.Subramaanyan suggested to change the title of Unit 3 title in the subject Design and Analysis of Algorithms (Semester IV) from Dynamic Programming and Greedy Techniques to Greedy Techniques and Dynamic programming.
18. Dr.SabuM.Thampi suggested to have some introduction topics about Grid and Cloud Computing in the subject Distributed Systems in Semester VI
19. Dr.R.B.V.Subramaanyan and Dr.SabuM.Thampi suggested to modify some of the topics in Artificial Intelligence syllabus. ( Semester IV)
20. Dr.Sabu.M.Thampi suggested to give some projects in Internet Programming Laboratory(Semester V)
21. Dr.Sabu.M.Thampi suggested to include sensor based experiments in IoT and Machine Learning Laboratory.(Semester VI)
22. Dr.SabuM.Thampi inquired, whether Network Security is having a lab course. (Se-



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mester VII), Dr.A.Meenakshi acknowledged that a Security lab is there in the syllabus.

23. Dr.Sabu M.Thampi suggested to include Smart Multimedia topic in Multimedia systems (Elective – II, Semester V)
24. Dr.Sabu.M.Thampi suggested to include applications of NLP in Unit 5 of the subject Natural Language Processing(Elective – VI, Semester VII)
25. Dr.R.Venkatesan suggested to provide online courses offered by IBM Cognitive class to the students.He also suggested that Badges will be provided from IBM, which will be helpful for the students to link it in their LinkedIn profile. Also, he explained that three courses are offered by IBM Cognitive Class. a) Introduction to Data Analytics b) Introduction to Artificial Intelligence c) Python for Data Science and the students can learn it for free of cost.
26. Dr.A.Meenakshi, presented the faculty list in the three member committee which was constituted for online courses, value added courses and internship. She also presented the panel of experts for staff selection and for question paper scrutiny. She gave an overview about the end semester examination process and presented the performance of the students in end semester examination ( 2020 -2021 ODD).
27. The updated syllabus , for the program specific papers in second semester, CS1201 – Object oriented programming using python and CS1211- Object oriented programming using python Laboratory , was approved by the BOS members .
28. Finally the Board of Studies members approved the entire Curriculum and syllabi of B.E(CSE).
29. Dr.R.Ramya proposed the vote of thanks to all the external and internal members and the meeting adjourned.



### Department of ECE

Date : 11-05-2021

### Board of Studies of Electronics and Communication Engineering

### Minutes of the 2<sup>nd</sup> Board of Studies Meeting (Online Mode)

Date : 08-05-2021 Saturday

Time : 02.30 P.M to 5.00 P.M

Platform : Microsoft Teams

Meeting Link : [https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_YzhjNDM0MjUtNTQ3Zi00Nzc3LWlyOTYtNzE3MTNjOTQ0OWVm%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%22e2bd1ae4-544b-4688-9cd6-e10de0b4a9ec%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_YzhjNDM0MjUtNTQ3Zi00Nzc3LWlyOTYtNzE3MTNjOTQ0OWVm%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%22e2bd1ae4-544b-4688-9cd6-e10de0b4a9ec%22%7d)

### In Attendance:

S.No	Name of the Expert	Designation	Capacity
1	Dr.H.Umma Habiba, Ph.D.,	Professor, ECE, Sri Venkateswara College of Engineering, Irungattukottai - 602117. Sriperumbudur Taluk.	Anna University Nominee
2	Dr.D.Sriram Kumar, Ph.D.,	Professor, ECE, National Institute of Technology, Tiruchirappalli - 620015.	Academic Council Nominee
3	Dr.A.Amalin Prince, Ph.D.,	Associate Professor, Department of EEE, BITS Pilani, K.K.Birla Goa Campus, Zuarinagar, Goa – 403726.	Academic Council Nominee
4	Mr.M.Chinnathambi, M.E.,	Technical Lead, Viasat India, Global Infocity, Module 1 & 2, 5th Floor, Block C, No. 40, MGR Salai, Perungudi, Chennai - 600097.	Industrialist Nominee
5	Dr.R.Preetha, Ph.D.,	Assistant Professor, ECE, SRM Institute of Science and Technology, Ramapuram, Chennai - 600089.	Alumni Nominee

<b>Internal Members of BoS – ECE Department</b>		
<b>S.No</b>	<b>Name</b>	<b>Designation</b>
1.	Dr.R.Suresh Babu, M.E.,M.B.A.,Ph.D.,	Professor and Head / ECE, Chairman of BoS – ECE
2.	Dr.C.Geetha Priya, M.E.,Ph.D.,	Professor / ECE
3.	Dr.A.Geetha, M.E.,Ph.D.,	Associate Professor / ECE
4.	Dr.R.S.Venkatesan, M.E.,Ph.D.,	Assistant Professor / ECE
5.	Dr.V.Jeyalakshmi, M.E.,Ph.D.,	Assistant Professor / ECE
6.	Dr.T.Pandiselvi, M.E.,Ph.D.,	Assistant Professor / ECE
7.	Dr.N.M.Mary Sindhuja, M.E.,Ph.D.,	Assistant Professor / ECE
8.	Mrs.T.Prathiba, M.E.,(Ph.D.,)	Assistant Professor / ECE
9.	Mrs.C.Nagavani, M.E.,(Ph.D.,)	Assistant Professor / ECE
10.	Mr.M.Ramesh, M.E.,(Ph.D.,)	Assistant Professor / ECE
11.	Mr.R.Ashok, M.E.,(Ph.D.,)	Assistant Professor / ECE
12.	Mrs.S.Nisharani, M.E.,(Ph.D.,)	Assistant Professor / ECE
13.	Mr.P.Aravind, M.E.,	Assistant Professor / ECE
14.	Mrs.P.Ramalakshmi, M.E.,(Ph.D.,)	Assistant Professor / ECE
15.	Mrs.M.Stella Mercy, M.E.,(Ph.D.,)	Assistant Professor / ECE
16.	Mr.S.Alwyn Rajiv, M.E.,(Ph.D.,)	Assistant Professor / ECE
17.	Mrs.M.Gokila, M.E.,	Assistant Professor / ECE
18.	Mrs.P.Muthumari, M.E.,	Assistant Professor / ECE
19.	Mrs.A.J.Bhuvaneshwari, M.E.,	Assistant Professor / ECE

### **The Minutes:**

The meeting is called for considering the Undergraduate curriculum & syllabi (III semester to VIII semester) and Postgraduate Syllabi Amendments.

### **Discussions:**

1. HOD/ECE gave a warm cordial welcome to all the members of the Board of Studies and ECE department.
2. HOD/ECE gave a brief presentation about the PEOs, POs and PSOs (UG and PG) of the ECE department and requested approval for the same from the BOS Members.
3. HOD/ECE discussed on the gist of 1<sup>st</sup> AC meeting held on 17<sup>th</sup> July 2020 to the BoS experts. The highlights of the discussion were as follows:



<p><b>Recommendations from the Governing Body and Academic Council for Framing UG Curriculum:</b></p>	<ol style="list-style-type: none"> <li>1. Credit range: 165 - 170</li> <li>2. 20 - 24 credit per Semester.</li> <li>3. VIII Sem Project Work: 8 - 10 credits</li> <li>4. Online Course (Maximum 6 credits)</li> <li>5. Audit Course (Mandatory non credit)</li> <li>6. First semester is common for all Programme</li> <li>7. First year credit range : 40 - 42</li> <li>8. Engineering Graphics to be in II Semester</li> <li>9. Programme specific papers could be offered in II Sem.</li> <li>10. AICTE &amp; AU 2019 curriculum could be taken as base for framing curriculum.</li> <li>11. III Sem Mathematics (Programme specific) Mandatory</li> </ol>
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4. Once after getting the approval from BOS members in 1<sup>st</sup> BOS Meeting, the approval for PG curriculum and Syllabi (M.E – Communication and Networking) is submitted to the 2<sup>nd</sup> Academic Council Meeting.
5. Similarly, once after getting the approval from BOS members in 1<sup>st</sup> BOS Meeting, the approval for UG curriculum and Syllabi – I Year (B.E. – Electronics and Communication Engineering) is submitted to the 2<sup>nd</sup> Academic Council Meeting.
6. In the 2<sup>nd</sup> Academic Council Meeting, the Executive Council for monitoring exam related activities is formed.
7. Approval is requested for the First BoS Minutes from the BoS members.
8. **HOD/ECE presented the proposed R2020 UG Programme Curriculum and Syllabi for the following**
  - a. B.E. - ECE 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year (3<sup>rd</sup> to 8<sup>th</sup> semester)
  - b. Syllabus for Common Courses
  - c. Syllabus for General Papers
  - d. Syllabus for Open Electives
  - e. Syllabus for Audit Courses
  - f. Curriculum Framework Semester wise with credit.
9. **HOD/ECE explained the Process for framing Curriculum and Syllabi which involves the following.**
  - a. Syllabus Framing Committee comprising of HOD and Domain Experts
  - b. Syllabus Framing Sub Committee comprising of Domain Experts and Domain Subject Incharges.
  - c. Syllabus Presentation Domain Wise at Department Level

- d. Syllabus Presentation Semester Wise at Department Level
  - e. Syllabus Presentation at Board of Studies
  - f. Suggestion / Comments by BoS Members
  - g. Syllabus updation & Final approval from BoS Members
  - h. Syllabus Presentation & Approval by Academic Council
10. The different domains of the Electronics and Communication Engineering are identified by the HoD. Based on the expertise of the faculty members and the competency matrix of individual faculty member, HoD will allocate the domain experts and the domain subject incharges.

<b>S. No</b>	<b>Domain Name</b>	<b>Domain Experts</b>
1.	Circuits & VLSI domain	Dr.R.S.Venkatesan Mr.P.Aravind
2.	Embedded & IoT domain	Dr.V.Jeyalakshmi Mrs.C.Nagavani
3.	Signal, Image & Video Processing domain	Dr.A.Geetha Mrs.T.Prathiba
4.	Wireless Communication & Networking domain	Dr.C.GeethaPriya Mrs.S.Nisharani
5.	RF & Microwave domain	Dr.N.M.MarySindhuja Mr.R.Ashok

11. Syllabus Framing Sub-Committee consists of domain experts and domain subject in charges. Domain experts and Domain subject in charges were allocated with different courses based on their domain, their expertise and the competency matrix. Domain expert conducted meetings with domain subject incharges and framed the syllabus based on the guidelines. The domain expert discussed the course objectives, syllabus (Addition / deletion with justification) and Course outcomes for individual courses allocated to domain subject incharges. The domain experts consolidated the syllabus framed by the domain subject incharges and send the same to the HoD / UG Program Coordinator / BoS Coordinator.
12. Syllabus Presentation Domain Wise at Department Level by the various Domain subject incharges and Syllabus Presentation Semester Wise at Department Level by the UG Program Coordinator. And the final drafted syllabus is presented to the BoS members in Board of Studies Meeting.

13. **HOD/ECE explained the Process for framing Syllabus for the Common Courses which involve the following**
  - a. Identification of Common Courses by respective HODs
  - b. Deputation of Common Course Incharges (based on Domain Expertise) by respective HODs
  - c. Selection of Common Course Coordinator
  - d. Meetings Conducted by the Common Course Coordinator to Common Course Incharges and Domain Experts
  - e. Discussions on Designing the Course Objective and Course Outcomes.
  - f. Discussions on Framing the Syllabus based on the Guidelines
  - g. Finalized Syllabus Presentation in the Respective Departments & BOS for Approval.
14. HOD/ECE listed the various Common Courses and the Common Course Incharges/ Common Course Coordinators to BoS Members.
15. In the common courses, in addition the syllabus for the management papers “Principles of Management”, “Total Quality Management” & “Professional Ethics & Human Values” were sent to external expert Dr.E.V.Rigin, M.Sc., M.Phil., M.B.A., M.Phil., Ph.D., Assistant Professor & Zonal Coordinator-YRC, Department of Youth Welfare Studies, School of Youth Empowerment, Madurai Kamaraj University, Madurai for review and the corresponding suggestions were included in the syllabus framing for those management papers.
16. **HOD/ECE discussed the BoS members about their suggestions and recommendations given during 1<sup>st</sup> BoS Meeting with respect to the curriculum of B.E-ECE. The following justifications/modifications were made in the UG curriculum as suggested in the 1<sup>st</sup> BoS meeting.**
  - a. Dr. H. Umma Habiba, Ph.D., suggested that Instead of “C Language” in “Fundamentals of Computing and Programming” theory course “Python and C programming languages” can be given - All the courses are common to all branches in Semester 1 and “C Language” is included as per the suggestion received from the Academic Council Team.
  - b. Mr. M. Chinnathambi, M.E., suggested the usage of Matlab Simulink tools for “Circuit Analysis” course. - As the classes are going Online, MultiSim and Every Circuit Simulation Tools are currently used.

- c. Dr. H. Umma Habiba, Ph.D., suggested renaming “Fundamentals of Data Structures in C” subject (Theory and Practical) as “Data Structures and Algorithms” – Accepted and changed as per the suggestion.
- d. Dr. H. Umma Habiba, Ph.D., suggested that in RF domain area, in semester 3 “Electromagnetic Theory” can be changed to “Electromagnetic Fields and Waves” - Accepted and changed as per the suggestion.
- e. Dr.D.Sriram Kumar, Ph.D., suggested introducing Theory cum Lab Courses. – As per the suggestions Theory cum Lab Courses were introduced.
- f. Dr.A.Amalin Prince, Ph.D., suggested the usage of available open source tools for the Theory and Lab courses. – Open Source tools used are MultiSim, Every Circuit, PSPICE, Emulator 8086 / EMU 8051, VLab etc.,
- g. Dr. H. Umma Habiba, Ph.D., suggested to include “Waveguides” concepts in the course “Transmission Lines and RF Engineering” - Included in the syllabus framed
- h. Dr. A. Amalin Prince, Ph.D., insisted to stress the Importance of “Object Oriented Programming” course in their placement interviews – Accepted and included in professional electives list.
- i. Dr.H.Umma Habiba, Ph.D., suggested introducing the course “RF Signal Integrity in system design” - Included in professional electives.
- j. Mr.M.Chinnathambi, M.E., suggested including “Software Engineering and Software Development Life Cycle” course in professional Electives – This course is offered by CSE department as Open Elective to other departments.
- k. Dr.R.Preetha, Ph.D., suggested introducing “Web Designing, Java Programming, IOT and Mobile App Development” courses in the Elective courses – This course is offered by CSE department as Open Elective to other departments.
- l. Dr. D. Sriram Kumar, Ph.D., appreciated that the presence of Online Course alone in 8<sup>th</sup> semester will pave way for industry internship projects.
- m. Dr. D. Sriram Kumar, Ph.D., suggested including “Electronics Packaging” and “Bio MEMS” courses in open electives – Included in Open Electives List
- n. Dr. A. Amalin Prince, Ph.D., suggested including “Machine Learning” Course in open electives list – Offered by CSE department as Open Elective.
- o. Dr.R.Preetha, Ph.D., suggested introducing “PCB Design Course” in open electives list – Included as a Value Added Course.

- p. Dr.D.Sriram Kumar, Ph.D., suggested introducing “Green Environmental Engineering”, “Energy Audit” in Audit courses. - Offered as Open Elective by EEE department
- q. Mr.M.Chinnathambi,M.E., Dr.A.Amalin Prince, Ph.D., and Dr.R.Preetha, Ph.D., suggested introducing “Economics, Financial Management and Accounting” in Audit courses. - Included TQM, Project Management and Finance courses.
17. **HOD/ECE presented and discussed the whole syllabus for B.E-ECE from 3<sup>rd</sup> semester to 8<sup>th</sup> semester including Professional Elective Courses, Common Courses, Open Elective courses and Audit Courses. The following suggestions and recommendations were given during the discussion.**
18. Dr.H.Umma Habiba, Ph.D., suggested that it is better to have five course objectives uniformly for all the courses.
19. Dr.H.Umma Habiba, Ph.D., suggested that in Data Structures and Algorithms course, In the title of each unit it is not necessary to explicitly mention/display the specific data structure (Eg: List, Stacks, Queues and Trees and Graphs).
20. Dr.H.Umma Habiba, Ph.D., suggested that the sub topics within a unit should be separated by comma where as the new topics within a unit should be separated by hyphen. Also instead of giving topics within parenthesis, it is better to include as sub topics separated by commas.
21. Dr. A. Amalin Prince, Ph.D. and Dr.H.Umma Habiba, Ph.D., suggested that in the Digital Electronics Course, the contents “Basic memory structure – ROM - PROM – EPROM – EEPROM –EAPROM - RAM, Static and dynamic RAM” with respect to memory devices need to be included as it is important to understand the FPGA concepts.
22. Dr.H.Umma Habiba, Ph.D., suggested that in the Electromagnetic Fields and Waves Course, instead of having only Basics such as Vectors, Co-ordinates, Volume Integrals, Green’s and Stoke’s Theorem in Unit I – Introduction, more additional topics can be included from the other units which are heavy. .
23. Dr.H.Umma Habiba, Ph.D., suggested that in the Electronic Devices Course, in the unit title the other names for the devices mentioned within the parenthesis is not necessary. Also, the title should not be too lengthy, mentioning the topic headings inside the syllabus are not necessary. All the topics can be continuously mentioned.
24. Dr.D.Sriram Kumar, Ph.D., and Dr.H.Umma Habiba, Ph.D., suggested that instead of having only REFERENCES, it can be split into TEXT BOOKS and REFERENCE BOOKS. Keeping only REFERENCES section for UG syllabus is misleading as this will

be followed in PG syllabus only. Either the TEXT BOOKS and REFERENCE BOOKS along with WEBSITES can be used or a single cluster under the name LEARNING RESOURCES can be used.

25. Dr.D.Sriram Kumar, Ph.D., suggested introducing Software Tools in the laboratory courses either in a cycle of experiments or a couple of experiments, whichever possible.
26. Dr.D.Sriram Kumar, Ph.D., suggested that the ECE department faculty members can be encouraged to handle the course “Probability and Random Processes” in future.
27. Dr.D.Sriram Kumar, Ph.D., suggested that the number of Reference books can be fixed to a value so that it will be uniform throughout the courses in the syllabus. It is better to have Text Books (one or two books) and Reference Books section throughout all the courses.
28. Dr.D.Sriram Kumar, Ph.D., suggested that the course Microprocessor and Microcontrollers Theory and the corresponding Laboratory course can be moved from sixth semester to the earlier semester in future since appearing for this course in sixth semester is late.
29. Dr.D.Sriram Kumar, Ph.D., suggested having a unique cell for Intellectual Property Rights in addition to the Research and Development Cell.
30. Dr.H.Umma Habiba, Ph.D., suggested that in Theory courses like “Electromagnetic Fields and Waves”, “Transmission Lines and RF Systems” and “RF System Design” instead of teaching only theory it is necessary to include tutorial problems based on design. The question paper should also be set in such a way that the Question Paper contains tutorial problems based on design.
31. **HOD/ECE presented and discussed the formation of Three Member Committee for evaluating the ONLINE Courses (NPTEL/SWAYAM) especially for the NPTEL failed students and requested the approval from the Board of Studies members.**
32. Dr.D.Sriram Kumar, Ph.D., confirmed that the Subject Expert for Online Courses is from the respective department.
33. **HOD/ECE presented and discussed the formation of Three Member Committee for VALUE ADDED Courses along with its evaluation and requested the approval from the Board of Studies members.**
34. **HOD/ECE presented and discussed the formation of Three Member Committee for INDUSTRY INTERNSHIP along with its evaluation and requested the approval from the Board of Studies members.**

35. Dr.D.Sriram Kumar, Ph.D., suggested that the number of credits should be a fixed one for the Industry Internship.
36. **HOD/ECE presented and requested approval for the Panel of External Experts for Staff Selection and Staff Performance Appraisal.**
37. **HOD/ECE presented and requested approval for the Panel of External Experts for the following.**
  - a. Question Paper Setting
  - b. Question Paper Scrutiny
  - c. Valuation / Practical Examinations
38. **HOD/ECE presented the report on performance of End Semester Examination Results conducted by the Anna University May / June 2020 as well the Kamaraj College of Engineering and Technology Autonomous Exams during Dec 2020 / Jan 2021.**
39. **HOD/ECE presented the amendments related to the PG Syllabus and requested the approval for the same. In PG, open elective is offered by the department in Third semester to other departments. But since for few departments (especially Bio Technology) the third semester is for only Lab / Project Work Phase –I, it is decided to offer the open elective of our department in both Second and Third semesters. The approval for the same is requested.**
40. **Date of next meeting:** The tentative date for the Next BoS Meeting (ECE Board) is suggested as 06-11-2021 (Saturday) by the BoS Members.
41. The meeting ended with the Vote of Thanks by Dr.C.Geetha Priya, Professor, Department of ECE, Kamaraj College of Engineering and Technology, Madurai.

(Dr. R.SURESH BABU)  
BoS Chairman – ECE  
HOD / ECE



**MINUTES OF THE 2nd ONLINE MEETING**  
**BOARD OF STUDIES OF**  
**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**DATE:** 8<sup>th</sup> May, 2021, Saturday

**Time:** 11.00 AM – 01.00 PM

**PLATFORM :** Teams App

**Meeting Link:** <https://tinyurl.com/BoS-meeting--EIE>

**IN ATTENDANCE:**

<b>S.No</b>	<b>Name of the Expert</b>	<b>Designation</b>	<b>Capacity</b>
1	Dr.N.Sivakumaran, Professor/ I & C	Professor, Department of Instrumentation and Control Engineering, NIT, Trichy	Anna University Nominee
2	Dr.G.Uma, Professor and Head / I &C	Professor, Department of Instrumentation and Control Engineering, NIT, Trichy	Academic Council nominated BoS Members
3	Dr. P. Ramesh Babu Professor and Head / C&I	Professor, Pondicherry Engineering college	
4	Er.K.Murugesan Assistant General Manager	Winomechanic Private Ltd., Chennai	Industrialist
5.	Dr.G.Palani Kumar Lead Controls Engineer	GE Renewable Energy, Bangalore	Alumni

<b>FACULTY OF ELECTRONICS AND INSTRUMENTATION ENGINEERING</b>	<b>MEMBERS</b>
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<b>S.No</b>	<b>Name of the Faculty</b>	<b>Designation</b>
1	Dr.S.Jeyadevi	Chairman / HoD-EIE
2	Mrs. M.Vigneswari	UG Programme Coordinator
3	Mr. A.Rajavel	Assistant Professor / EIE
4	Mrs.J.UmaMaheswari	Assistant Professor / EIE
5	Mrs.L.V.Revathi	Assistant Professor / EIE
6	Mr.S.RameshPrabhu	Assistant Professor / EIE
7	Mr. R.Rajprabu	Assistant Professor / EIE
8	Mrs. R.Santhiya	Assistant Professor / EIE
9	Ms. S.Kavitha	Assistant Professor / EIE

**THE MINUTES:**

The meeting was called for considering the Undergraduate curriculum (III sem. - VIII sem.) & syllabi.

**DISCUSSIONS:**

- Dr.S.Jeyadevi welcomed the gathering.
- Dr.S.Jeyadevi discussed the Proceedings of 1<sup>st</sup> Academic Council Meeting held on 17<sup>th</sup> July 2020 to the experts. The highlights of the discussion were as follows:

	<p style="text-align: center;"><b>Recommendations from the Governing Body and Academic Council for Framing UG Curriculum:</b></p>	<ul style="list-style-type: none"> <li>• Credit range: 165 – 170</li> <li>• 20 – 24 credit per Semester.</li> <li>• VIII Sem. Project Work: 8 – 10 credits</li> <li>• Online Course (Maximum 6 credits)</li> <li>• Audit Course (Mandatory non credit)</li> <li>• First semester is common for all Programme</li> <li>• First year credit range : 40 – 42</li> <li>• Engineering Graphics to be in II Semester</li> <li>• Programme specific papers could be offered in II Sem.</li> <li>• AICTE &amp; AU 2019 curriculum could be taken as base for framing curriculum.</li> <li>• III Sem Mathematics (Programme specific) Mandatory</li> </ul>
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1. Dr.S.Jeyadevi presented the regulation of Undergraduate (UG) curriculum.
2. Dr.S.Jeyadevi, presented the proposed R2020 - curriculum, syllabus and curriculum framework for the Undergraduate (UG) program.
3. Dr.G.Uma suggested that the syllabus for ‘MEMS’ (Unit title, topics and text books should be relevant to the course) and the syllabus for ‘Instrumentation System Design’ should be refined. Meanwhile, she suggested to remove “Smart sensor’ course.
4. Dr.G.Uma also suggested that advanced topics may be included in VLSI design.
5. Dr.N.Sivakumaran and Dr. P. Ramesh Babu suggested to reduce the number of courses offered in the choices of Professional Elective and Open Elective (we are offering 5 courses in a choice basis for each professional elective). As per their suggestion, it was reduced to 4 courses.
6. Dr.G.Uma , Dr.N.Sivakumaran and Dr. P. Ramesh Babu suggested that the ‘Digital Instrumentation’ and ‘Embedded system for biomedical instrumentation’ courses may be removed and if it is needed new courses may be included.
7. Dr.N.Sivakumaran mentioned that 4<sup>th</sup> unit of Instrumentation in ‘Agriculture and food industries’ course needs to be modified and suggested to ref. NITT, C & I dept. syllabus for this course.

8. Dr.G.Uma, Dr.N.Sivakumaran and Dr. P. Ramesh Babu proposed to change the course name for 'Methods and Measurements of Analytical Instruments'.
9. Dr.G.Uma and Dr. P. Ramesh Babu recommended the Swayam courses for online courses. The certificates issued by Swayam will be considered for credits also.
- 10.Er.K.Murugesan recommended to include subjects like Solar energy or wind energy based or energy harvesting (with design aspects for conditional circuits, storage devices etc) instead of 'Power Electronics', 'Digital Instrumentation, Embedded System' for 'Biomedical Instrumentation' and 'Instrumentation in Petrochemical Industries' as professional elective subjects and it will provide recent trends in instrumentation field and it helps the students to understand the current scenario.
- 11.Dr.G.Palanikumar recommended to refine the 'Process control' syllabus (control valve sizing topic) and include that content in 'Instrumentation System Design' syllabus.
- 12.Dr.G.Palanikumar recommended adding state estimation, system identification, instrumentation & control in automotive applications as a professional elective and agile process, lean methods, product life cycle as a Employability Enhancement Course or in value added course.
- 13.Dr.G.Uma, Dr.N.Sivakumaran and Dr. P. Ramesh Babu suggested that the new undergraduate programme in the name of 'Biomedical engineering' or 'Industrial automation' may be considered. Er. K.Murugesan and Dr.G .Palanikumar also suggested the same.
- 14.Dr.S.Jeyadevi presented about 3 members committee for Online course, Internship / Inplant training and Value added program.
- 15.Mrs.L.V.Revathi proposed the vote of thanks to all the external and internal experts and the meeting was adjourned.

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

**MINUTES OF  
 POLYMER TECHNOLOGY – II nd BOARD OF STUDEIS ONLINE MEETING**

**Date:** : 08.05.2021

**Time:** : 10 am -12.00 noon

**Platform** : Microsoft Team  
**Link:** <https://bit.ly/3eja9W7>

**Members Present:**

Capacity	Name & Designation	Institute
Anna University Nominee	Dr.K.Ravichandran Professor Dean, Regional campus, Anna University, Coimbatore	Madras Institute of Technology, MIT Road, Radha Nagar, Chromepet, Chennai, Tamil Nadu 600044.
Academic Council Nominee -1	Dr.S.N. Jaisankar Sr. Principal Scientist	Polymer Science & Technology CSIR-Central Leather Research Institute Adyar, Chennai – 600 020
Industrialist	Er. M.Pandian Deputy General Manager	M/s.Fenner (India) Ltd, 3, Madurai - Melakkal Road, Kochadai, Madurai, Tamilnadu
Alumni	Er. J.Muthuvijayan Material Leader- Engineering	M/s. TPI Composites India Pvt Ltd 1st Main Rd, South Phase, Ambedkar Nagar, Indira Nagar, Gandhi Nagar, Chennai, Tamil Nadu 600032

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

All Polymer Department faculty members

Dr.S.Gandhi, M.Sc.,  
M.Tech., Ph.D

Chairman & HOD/PT

Dr. Dr(mont.)  
C.T.Vijayakumar, Ph.D.

Professor/PT

Dr. R.Baskaran,  
M.Tech., Ph.D

Associate Professor & UG-Program Co-ordinator

Dr. S.Vinayagamoorthi,  
M.Sc., Ph.D

Associate Professor/PT

Internal

Dr. M.G.Sribala,  
M.Tech., Ph.D.,

Assistant Professor/PTv& PG-Program Co-ordinator

Dr. K.Agathian,  
M.Tech., Ph.D.,

Assistant Professor/PT

Er. S.Sivakumaravel,  
M.Tech.

Assistant Professor/PT

Dr. S.Kailash, M.Tech.,  
Ph.D.,

Assistant Professor/PT

Dr. K.Poprapharan,  
M.Tech., Ph.D.,

Assistant Professor/PT

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

**THE MINUTES:**

<b>Points No</b>	<b>Discussion Points</b>
<b>1.</b>	<b>Welcome address:</b> Dr.S.Gandhi, HOD/PT welcomed all the members of Polymer Technology - Board of studies.
<b>2.</b>	<b>Previous BOS Minutes:</b> First PT-BOS meeting was conducted on 1 <sup>st</sup> August 2020 in online mode. The minutes of meeting of the First PT-BOS was sent to all PT-BOS member in mail earlier. Approval of the Minutes of meeting for the First PT-BOS meeting was raised and it was approved by all BOS members.
<b>3.</b>	<b>Approval of syllabus R-2020 for B.Tech. Polymer Technology.</b> Dr.R.Baskaran, Asso.Prof/PT –UG program coordinator presented initially the Guidelines for framing UG curriculum and Process for framing Curriculum and Syllabi and then presented the proposed the UG program curriculum and syllabus as follows. <ol style="list-style-type: none"><li>1. Core courses</li><li>2. Elective courses</li><li>3. Common courses</li><li>4. List of Audit course</li><li>5. Online courses</li><li>6. Open Elective courses</li></ol>
<b>4.</b>	<b>Approval of Core and Elective courses:</b> BOS Members appreciated structure of UG curriculum, syllabus and approved the syllabus listed in professional core and Elective courses as such except Dr.Ravichandran suggested to modify name of Tyre Technology course as Tyre and Tube Technology course.



**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

5. **Approval of Open Elective (OE) courses:** Dr.Ravichandran and Dr.Jaishankar suggested for merging of open elective subjects by including courses like strength of material/new technology Interdisciplinary related courses and asked to rearrange serial numbers.
6. **Approval of common courses & Audit courses:** The common courses listed in Maths, English and Management courses and Audit courses were presented and BOS members approved the same.
7. **Approval of online courses:** The online courses has listed in curriculum at VI and VIII semester (for UG), III sem (for PG).

The following suggestion and approval was given by BOS member.

**List of Online courses:** Since the polymer course is specialized course, no.of online course offered by NPTEL/SWAYM is limited. Hence, The online course related to Polymer discipline is minimum. We hereby requested to provide the approval for choosing the online courses related to polymer discipline, Management courses and general learning courses (like, industrial safety etc.,) with prior permission of 3 Member committee and depending upon the current issues. BOS members accepted and approved for the selection of online courses.

**Online courses in phase manner:** Approval sought to do the course in the phase manner and decision - vested to three member committee.

**For UG**

VI sem

- Phase -1: 12 week course or  
( 4+ 8 week course) – VI SEM

**AND/OR**

- Phase-2: 4 week (in V SEM) + 8 week (in VI SEM) vice versa

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

VIII sem

- Phase -1: 12 week course or ( 4+ 8 week course) – VIII SEM

**AND/OR**

- Phase-2: 4 week (in VII SEM) + 8 week (in VIII SEM) vice versa

**For PG**

- Phase -1: 12 week course or  
( 4+ 8 week course) – III SEM

**AND/OR**

Phase-2: 4 week (in II SEM) + 8 week (in III SEM) vice versa

**Assessment of End examination of Online courses :**

BOS members approved to fix norms for online courses and follow the University norms and guidelines. Dr.Ravichandran suggested to include online skill development course. And if students are not cleared in the online courses, three member committee can conduct the special assessment and grant the credit.

**8. PEOs, PSOs for the New Syllabus:**

For R-2020 –UG. B.Tech Polymer Technology new syllabus, The Programme Educational Objectives (PEO's) and Programme Specific Outcome (PSO's) statements were presented and approved by the BOS members. The statements are listed here:

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

**Program Educational Objectives (PEO's)**

<b>PEO1:</b> <b>Expertise In</b> <b>Professionalism</b>	Graduates will be <b>technically proficient</b> in Polymer Technology with a commitment to quality, timeliness and compete with confidence in their career.
<b>PEO2:</b> <b>Higher Education</b> <b>And Research Work</b>	Graduates will contribute towards <b>research</b> and Professional development and <b>entrepreneurship</b> .
<b>PEO3:</b> <b>Life Long Learning</b>	Graduates will engage in <b>lifelong learning</b> or continuous education opportunities.

**Program Specific Outcome (PSO's)**

<b>PSO1:</b> <b>Polymer industry</b> <b>oriented</b> <b>preparedness:</b>	Reveal an ability to identify careers in polymer technology's domains like, synthesis of polymers, processing and quality with adept skills required to work in polymer technology laboratory or manufacturing facility.
<b>PSO2:</b> <b>Higher Education</b> <b>Preparedness:</b>	Demonstrate an ability to appear for competitive examinations to pursue higher

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

**9. Approval of three member committee:**

Three Member Committee List for: Online Courses, Value Added Courses  
Industrial Internship

**Suggested Member for Three member committee:**

HOD/PT- Chairman; UG Programme coordinator- member; and Course  
incharge – Member

Dr.S.N.Jaisanker suggested to include the other department faculty/ external  
member instead of 100 % internal in three member committee. It is accepted and  
revised.

**Role of members:**

- Value Added Courses - for selecting Value Added Programme,  
implementing and recommending for credit after evaluation.
- Online Courses - to approve Online Courses and to follow up completion  
of courses by students, result submission with credits.
- Industrial Internship -to monitor industry internship / inplant training  
and to recommend credit after evaluating reports.

**10. Approval for panel of external experts:**

The proposed panel of external experts for QP setting; QP scrutiny; Answer  
script evaluation; Examiner for laboratory exam / Project Viva Voce were  
listed. Dr K.Ravichandran & Dr.S.N.Jaisanker suggested to include the members  
from CIPET, Madurai. It is accepted and revised the list.

**11. Discussion on Results of 2020-21 ODD END examination.**

Details of conduct of exam: Mode, Pattern of QP and Results for each year (in  
the format of University Analysis) were presented and discussed. III year & IV  
Year Chairpersons highlighted the academic performance of students in 2020-21  
ODD semester university examinations. For II nd year, the result is yet to be  
announced for lateral entry students. Dr.Ravichandran mentioned low pass  
percentage in OCY551 Advanced engineering chemistry and asked compare  
with previous performance of the batches.

## Department of Polymer Technology

### Minutes of Meeting–PT-II nd BOS on 8.5.2021

#### 12. Approval of open elective course for PG pgm:

To consider and approve the proposed open elective courses for PG program, Dr.M.G.Sribala, AP/PT –PG program coordinator presented the curriculum and syllabi. BOS Members approved Open elective courses curriculum and syllabus.

#### 13. Starting of New UG /Renaming of UG Programme

Dr.S.Gandhi HOD/PT reported the closure of the U.G B.Tech Polymer Technology course from 2021-22 academic year onwards due to pandemic situation, poor awareness about the Polymer field and Lack of admission at the Polymer Technology course in the successive previous years.

Dr.Ravichandran, Er.Muthuvijayan, Dr..S.N Jaisankar, Er.M.Pandyan & Dr.C.T.Vijaykumar and other BOS members stressed and recommended the college management to try to retain the course because;

- Students get placed in Core Company
- Industry needs the polymer graduate always.
- Lot of the scope for light weight polymer, aerospace application
- Most vacancy arises in future in new technology in polymer
- Creating more awareness to the society
- Department has recognized by NBA and it has Good infrastructure.

Dr.S.Gandhi HOD/PT presented the renaming of courses / starting of the new courses as per AICTE Hand book. In which the all BOS members approved for the course name “**Chemical engineering (Plastic and Polymer )** or Rubber and plastic technology. All BOS Members are recommended that the above course might be started in the forthcoming academic years for the benefit of industry needs and to utilize the facility, faculty.

#### 14. Vote of Thanks: Dr.S.Vinayagmoorthi, ASP/PT Member delivered vote of thanks and thanked all the BOS Members and Faculty members for giving valuable suggestions and spending their valuable time.

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

**Approval for Minutes of meeting of PT – IInd BOS and R-2020 Curriculum and syllabus of UG-Polymer Technology**

**Mail sent for approval** HODPT  
Wed 5/12/2021 3:52 PM

To:

ravi@mitindia.edu;  
kandasamy ravi <kravimit@gmail.com>;  
m.jegathesan@tpicomposites.com;  
Pandy.M <pandian@jkfenner.com>;  
snjsankar@clri.res.in;  
**PT**

PT -II nd BOS MOM on 8.5.21 .pdf  
548 KB

ANX-3 Overall Syllabus for III sem to VIII sem.pdf  
3 MB

Show all 2 attachments (4 MB) Download all Save all to OneDrive - Kamaraj College of Engineering and Technology

Dear all PT-BOS member

We conducted the PT-IIInd BOS meeting on 8.05.2021 in online mode. I have herewith attached the Minutes of meeting of the PT – II nd BOS. I hereby request you all (external and internal members) to give approval for the Minutes of meeting and R-2020 Curriculum and syllabus (III - VIII SEM) of UG-Polymer Technology for our record purpose and further process.

**Note: All are requested to reply the mail like** - We hereby provide the approval for Minutes of meeting of PT – IIInd BOS and R-2020 Curriculum and syllabus (III - VIII SEM) of UG-Polymer Technology.

Thank you

With regards

**Dr. S. Gandhi,**

HEAD / Department of Polymer Technology.

KAMARAJ College of Engineering and Technology (Autonomous).

S.P.G.C Nagar.

K-Vellakulam 625701.

Near Virudhunagar. Madurai District.

Tamilnadu. **Ph: 9443413431**

**External members**

**Dr.K.Ravichandran** K.Ravichandran MIT Campus, Anna University <ravi@mitindia.edu>

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

**Professor approval** Wed 5/12/2021 9:06 PM

To:

snjsankar <snjsankar@clri.res.in>;  
HODPT

Dear Sir

I hereby approve the BOS meeting.

Thanks

Regards

Ravichandran

**Dr.S.N.Jaisankar** snjsankar <snjsankar@clri.res.in>  
**Principle scientist approval** Wed 5/12/2021 4:22 PM  
To:

- m.jegathesan <m.jegathesan@tpicomposites.com>

Cc:

HODPT;  
ravi@mitindia.edu;  
kravimit@gmail.com;  
pandian@jkenner.com;  
PT

i approve the minutes of the meeting conducteds on 08-05-2021.

Dr Jaisankar

**Er.M.Pandy** **Sribala.M.G** <sribalapt@kamarajengg.edu.in>  
**Industry member approval** Thu 5/13/2021 12:40 PM  
To:

- HODPT

I hearby approve the syllabus and curriculum.

**Muthuvijayan J** **Approval for Minutes of meeting of PT – IInd BOS and R-2020**  
**alumni approval** **Curriculum and syllabus of UG-Polymer Technology -reg**  
 2

H

HODPT  
Wed 5/12/2021 4:02 PM  
To:



## Department of Polymer Technology

### Minutes of Meeting–PT-II nd BOS on 8.5.2021

- Jegathesan, Muthuvijayan <m.jegathesan@tpicomposites.com>

Thanks for your approval Er.J. Muthuvijayan.

With regards

**Dr. S. Gandhi,**

HEAD / Department of Polymer Technology.

KAMARAJ College of Engineering and Technology (Autonomous).

S.P.G.C Nagar.

K-Vellakulam 625701.

Near Virudhunagar.

Madurai District.

Tamilnadu.

**Ph: 9443413431**

□

Reply

Forward

JM

Jegathesan, Muthuvijayan <m.jegathesan@tpicomposites.com>

Wed 5/12/2021 4:01 PM

Reply all

More actions

To:

HODPT;  
ravi@mitindia.edu

+4 others

Dear Gandhi sir,

Thanks for the BOS meeting #2 arrangement for Syllabus discussion.

We hereby provide the approval for Minutes of meeting of PT – IIInd BOS and R-2020 Curriculum and syllabus (III - VIII SEM) of UG-Polymer Technology.

Thanks,

Rgs,  
Muthuvijayan J

#### Internal members

**Dr.S.Gandhi, M.Sc.,  
M.Tech., Ph.D  
Dr. Dr(mont.)**

I approve the minutes of meeting of PT-II nd BOS and R-2020 Curriculum and Syllabus of UG B.Tech Polymer Technology  
Chinnaswamy Thangavel Vijayakumar <ctvijay22@yahoo.com>

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

**C.T.Vijayakumar,** Fri 5/14/2021 12:24 PM  
**Ph.D.** To:  
HODPT;  
Vijayakumar Chinnaswamy Thangavel <ctvijay22@gmail.com>

**Dear Dr. Gandhi**

I hereby provide the approval for Minutes of meeting of PT – IInd BOS and R-2020 Curriculum and syllabus (III - VIII SEM) of UG-Polymer Technology.

Thank you

Dr. C.T. Vijayakumar

**Dr. R.Baskaran,** On "Baskaran.R" <baskaranpt@kamarajengg.edu.in>, 13-May-2021  
**M.Tech., Ph.D** 4:17 PM wrote:

Sir

We hereby provide the approval for Minutes of meeting of PT – IInd BOS and R-2020 Curriculum and syllabus (III - VIII SEM) of UG-Polymer Technology.

Thanks & Regards

**Dr.R.Baskaran,M.Tech., Ph.D.**  
**Associate Professor & Placement Incharge,**  
**Department of Polymer Technology,**  
**Kamaraj College of Engineering and Technology,**  
**Virudhunagar.**  
**Tamilnadu**  
**INDIA**  
**9443936555**

**Dr.** Vinayagamoorthy.S <vinayagamoorthypt@kamarajengg.edu.in>  
**S.Vinayagamoorthi,** Thu 5/13/2021 9:42 PM  
**M.Sc., Ph.D** To:

• HODPT

Dear sir

I hereby provide the approval for Minutes of meeting of PT – IInd BOS and R-2020 Curriculum and syllabus (III - VIII SEM) of UG-Polymer Technology.

with regards

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

Yours faithfully  
Dr.S.Vinayagamoorthi  
Associate Professor / Polymer Technology  
Kamaraj college of Engineering and Technology  
Virudhunagar

**Dr. M.G.Sribala,** **Sribala.M.G <sribalapt@kamarajengg.edu.in>**  
**M.Tech., Ph.D.,** Thu 5/13/2021 12:40 PM  
To:

• HODPT

I hereby approve the syllabus and curriculum.

**Dr. K.Agathian,** **Agathian.K <agathianpt@kamarajengg.edu.in>**  
**M.Tech., Ph.D.,** Thu 5/13/2021 7:47 PM  
To:

• HODPT

Sir,  
I hereby approve the Minutes of meeting of PT – II nd BOS and R-  
[2020](#) Curriculum and syllabus (III - VIII SEM) of UG-Polymer  
Technology.

Regards  
K.Agathian

**Er. S.Sivakumaravel,** **Sivakumaravel.S <sivakumaravelpt@kamarajengg.edu.in>**  
**M.Tech.** Thu 5/13/2021 1:00 PM  
To:

• HODPT

We hereby provide the approval for Minutes of meeting of PT – II nd  
BOS and R-2020 Curriculum and syllabus (III - VIII SEM) of UG-Polymer  
Technology

Regards  
S.Sivakumaravel

Sent from my Redmi 4A

**Department of Polymer Technology**

**Minutes of Meeting–PT-II nd BOS on 8.5.2021**

**Dr. S.Kailash,** Kailash.S <kailashpt@kamarajengg.edu.in>  
**M.Tech., Ph.D.,** Thu 5/13/2021 7:32 PM

• HODPT

Respected sir

Hereby I have approved the Minutes of meeting of PT – IInd BOS and R-2020 Curriculum and syllabus (III - VIII SEM) of UG-Polymer Technology.

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**Dr. K.Poprapharan,** PONPRAPAKARAN.K <ponprapakaranpt@kamarajengg.edu.in>  
**M.Tech., Ph.D.,** Fri 5/14/2021 11:15 PM  
To:

• HODPT

Dear sir,

We hereby provide the approval for Minutes of meeting of PT – IInd BOS and R-2020 Curriculum and syllabus (III - VIII SEM) of UG-Polymer Technology.

Thank you

**K.PONPRAPAKARAN**

***Assistant Professor***

***Department Of Polymer Technology  
Kamaraj College Of Engg. & Tech.  
Virudhunagar***



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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Minutes of Meeting –First Draft –BoS –3<sup>rd</sup> May, 2021**

**MINUTES OF THE 2<sup>nd</sup> ONLINE MEETING**

**BOARD OF STUDIES OF INFORMATION TECHNOLOGY**

**DATE:** 3<sup>rd</sup> May, 2021, Monday

**Time:** 11:00 AM –1:00 PM

**PLATFORM :** Microsoft Teams App

**Meeting Link:** <https://teams.microsoft.com/l/meetup-join/19%3a58256630005c4b23a74287b7f3dd7d8d%40thread.tacv2/1619964145355?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%22d31ad16e-8898-438a-a6a4-c678e75be5ee%22%7d>

**IN ATTENDANCE:**

S.No	Name of the Expert	Designation	Capacity
1	Dr. C.Deisy, M.E., Ph.D.,	Professor, Department Information Technology, Thiagarajar College of Engineering, Madurai.	Anna University Nominee
2	Dr. A.Kandasamy, M.Sc., Ph.D.,	Professor Department of Mathematical and Computational Sciences, National Institute of Technology, Karnataka, Suratkal.	Academic Council nominated BoS Members
3	Dr. R.Rajesh, M.E., Ph.D.,	Associate Professor Department of Computer Science and Engineering Central University of Kerala, Kasaragod.	



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4	Dr. K.Poyyamozi, M.C.A., Ph.D.,	Principal Program Manager, Norton E-Business, Chennai.	Industrialist
5.	Er. B.Selvakumar. M.E., Ph.D (pursuing).,	Assistant Professor (Sr, Gr.)/CSE, Mepco Schlenk Engineering College, Sivakasi.	Alumni

**FACULTY MEMBERS OF INFORMATION TECHNOLOGY - MEMBERS**

S.No	Name of the Faculty	Designation
1	Dr. P. Subathra	Chairman / HoD- IT
2	Dr. E.Vakaimalar, M.E., Ph.D.,	UG Programme Co-ordinator
3	Dr. M.Chengathir Selvi, M.C.A.,M.Phil.,M.E., Ph.D.	Assistant Professor / IT
4	Dr. R.Arthy, M.E., Ph.D	Assistant Professor / IT
5	Ms. P.Antony Seba, M.E., Ph.D (pusing).,	Assistant Professor / IT
6	Ms. D.Kayathri Devi, M.E., Ph.D (pursuing).,	Assistant Professor / IT
7	Ms.V.Deepa Priya, M.Sc, M.E., Ph.D (pursuing).,	Assistant Professor / IT
8	Mr. D.Vendhan, M.Sc (SE), M.Tech., Ph.D (pursuing).,	Assistant Professor / IT
9	Ms. P.Kaviya, M.Tech.,	Assistant Professor / IT



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**THE MINUTES:**

The meeting is convened for framing the Undergraduate curriculum & syllabi for R2020 of the Department of Information Technology.

**DISCUSSIONS:**

1. Dr.P.Subathra, Chairman/BoS/ IT Board convened the second online Board of Studies meeting on 03.05.2021 from 11.00 am to 1.00 pm.
2. She highlighted the agenda of the session
3. Mrs. D. Kayathri Devi, AP/IT the Board of Studies in-charge of the IT department welcomed the gathering.
4. Dr. P. Subathra presented the PEO, PSO statements of the department of information technology for the proposed curriculum and sought the approval from the BoS Members. BoS members (Dr.K.Poyyamozi, Dr.C.Deisy, Mr.B.Selvakumar) suggested on having an additional PSO to reflect team work and entrepreneurial capabilities
5. Dr. P. Subathra-presented the gist of the Proceedings of 1<sup>st</sup> Academic Council Meeting held on 17<sup>th</sup> July 2020 to the experts where the Curriculum R2020 of the department of Information Technology was approved
6. The highlights of the discussion are as follows:



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<p>Recommendations from the Governing Body and Academic Council for Framing UG Curriculum:</p>	<ol style="list-style-type: none"> <li>1. Credit range: 165 –170</li> <li>2. 20 –24 credit per Semester.</li> <li>3. VIII Sem Project Work: 8 –10 credits</li> <li>4. Online Course (Maximum 6 credits)</li> <li>5. Audit Course (Mandatory non credit)</li> <li>6. First semester is common for all Programmes</li> <li>7. First year credit range : 40 –42</li> <li>8. Engineering Graphics course to be given in II Semester</li> <li>9. Programme specific papers could be offered in II Semester.</li> <li>10. AICTE &amp; AU 2019 curriculum could be taken as base for framing the department’s curriculum.</li> <li>11. III Semester Mathematics (Programme specific) Mandatory</li> </ol>
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7. Dr. P. Subathra, presented the proposed R2020 - Syllabus for the Curriculum that was framed in the first BoS and approved by the Academic Council.
8. Dr. R.Rajesh, M.E., Ph.D., AC member nominee had technical issues in connecting to the meeting every after trying for a number of times. The chairman then sought the permission of the BoS members to conduct the meeting in his absence and later his suggestions and approval could be sought by sending the recorded video of the Second BoS meeting. The BoS members approved the same and the meeting continued.

**Comments for R2020 - Syllabus**

**Semester 3**

- Dr.K.Poyyamozi enquired if the syllabus is framed to equip the students to students to take up competitive exams like NET, SLET and GATE. The Chairman Dr. P. Subathra clarified that the syllabi is framed with enough care to cover most of the subjects available in the GATE examination and hence it would enable the students to take up GATE examination.





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- Dr. C. Deisy verified if the syllabus framing and the course handling of Electronics related paper are done by the faculty members from the department of Electronics and Communication Engineering (ECE). The Chairman Dr. Subathra clarified that it will be done by the faculty members from the department of ECE. Dr. C. Deisy suggested ensuring the Course Outcomes of such courses to be aligned with that of the Department of Information Technology.
- Dr.K.Poyyamozhi threw light on the job opportunities available for the students in the domain of IT infrastructure, which demands expertise in hardware and hence he insisted on framing the hardware based courses so that the students meet out such requirements too.
- Professor A. Kandasamy commented on the course entitled “Listening and Speaking”. He opined to change the name of the course to include words like “Technical Communication”, so that it would better reflect the content of the course. The Chairman assured that this would be communicated to the Department of English for further processing.
- Dr. C.Deisy suggested to frame the curriculum of IT, CSE and AI&DS such that they are all differentiated from each other. She also insisted on the PEOs and PSOs of the departments to reflect the same. Dr.P.Subathra assured to ensure this with further discussion with those departments.

#### Semester 4

- Dr.C. Deisy suggested adding the latest database concepts like Mongo DB in Database Management System subject. She also insisted to add the latest topics like DevOps somewhere in the subjects. She clarified that if the Operating System lab whether there is a provision to understand about Linux platform.



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Dr.M.Chengathirselvi assured that enough exercises are included in the syllabus to expose the students to the Linux platform.

- Professor. A. Kandasamy suggested not to limit the topics for mini project. He suggested on having the topic of mini project to be open ended so that students may comeout with innovative interdisciplinary project ideas. Dr.P.Subathra agreed upon this.
- Mr.B.Selvakumar suggested that there is no need to mention the pre-requisite explicitly for the core courses since all the students will be undergoing them. Professor A. Knadasamy gave a different line of though where in if the prerequisites are mentioned in all the courses, it would help the students from other departments who wish to take these courses as audit courses/open electives. Dr. P. Subathra conveyed that in the current regulation a separate set of audit courses have been framed for the entire institution by the Dean academics and she also assured to consider the same in future where the students of other departments are given provision to take up any course as an audit course.
- Dr. C. Deisy and Mr. B. Selvakumar advised to review the text book prescribed for all the subjects and ensure the latest editions are included.

#### Semester 5

- Mr. Selvakumar pointed out that the syllabus for Computer Network is framed as bottom up approach while the test book follows the top down approach. Hence he suggested on changing the text book that follows a bottom up approach. He also suggested adding network design tools like CISCO Packet Tracer in Networks Lab.
- Mr. B. Selvakumar suggested in including topics like JSON processing, JQuery and Java framework in the theory and laboratory courses of Web Technology.
- Dr. C. Deisy insisted on benchmarking the syllabi of this curriculum with the syllabi of reputed institution like NITs, IITs and other universities.

#### Semester 6



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- Professor. A. Kandasamy suggested give provision for the students of the other departments to take up the core courses as audit courses which will equip the students to do multidisciplinary projects. The chairman assured that this would be conveyed to the Dean Academics. Professor. A. Kandasamy also enquired if the audit courses are evaluated, for which the chairman replied that is no evaluation for them however, 75% attendance is mandatory for the students who are taking up the audit courses.

### Semester 7

- Professor. A.Kandasamy suggested on bringing all the Theory cum Lab and Lab cum Theory courses into the categories of Theory and Laboratory respectively. He also added that the theory and lab components can be very well expressed in terms of the number of hours allocated for the Lecture Sessions and Practical session by retaining the credits allocated to those courses. Dr.P.Subathra assured to have a relook on this with the consent of Dean/Academics.
- Mr. B.Selvakumar suggested having Nova and Glance as a sub exercise in Private cloud creation and also to mention Devstack explicitly.

### Professional Elective

- Mr. B.Selvakumar suggested to have either Web based Python programming or Data Science application using Python in Advanced Python Programming Syllabus. He also commented on the text book for Cyber Security and Cyber Forensics. He insisted to relook the flow of the syllabus.
- Dr. Desiy insisted not to have repeated topics in Machine Learning as in Data Mining. Dr.P.Subathra replied that the topics are framed in such a way only.

### Open Elective

- Mr. B. Selvakumar commented the following points on the Open Elective Courses that are offered by the department of Information Technology students of other programmes :



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- He suggested to cross check the names of the similar courses offered as open-electives and as core courses. He insisted on ensuring that they have different names.
- The pre-requisites of the open electives are to be verified and if the students who are offered these open electives have not undergone the pre-requisites, they can be given in the first unit of the course.
- In case an open elective can be taken by department of Computer Science Engineering students then the syllabus should not be less than the core syllabus of department of Computer Science Engineering. (I am not able to get this point)
- Finally, the chairman Dr.P.Subathra assured that all the comments and suggestions given by the members of BoS would be taken into consideration and appropriate modification would be incorporated in the syllabi.

**Approval sought for:**

The chairman sought the approval for the following from the BoS members:

- Common Courses – Courses that are common to students of IT and other programmes like CSE, AI&DS, ECE, Mechanical and Mechatronics.
- Audit Courses offered by the institution
- Three member committee for approving online courses taken up by students
- Three member committee for approving value added courses taken up by students
- Three member committee for approving the industry internship taken up by students
- Expert members for staff recruitment
- Expert members for question paper setting and question paper scrutiny



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**Examination Process and Result Analysis**

- Dr.P.Subathra presented the process of conduct of End Semester Examination which was carried out as an autonomous institution. The following points were highlighted:
  - Hiremee platform with proctoring mode was used to conduct the online MCQS based end semester exams
  - Question Paper setting guidelines
  - Sample Question Paper format
  - Question Paper scrutiny process
- Students' Performance in End Semester Examination for the batches 2016-2020, 2017-2021, 2018-2022, 2019-2023 were presented.

**Any Other:**

Dr. P . Subathra conveyed the members of the BoS that the department is waiting the NBA visit shortly and sought the suggestion from the members on the UG or PG programme that can be offered by the department of Information Technology once after getting the accreditation.

The members suggested that since the institution is an autonomous institution affiliated to Anna University, Chennai and not a Deemed to be University, the AICTE model handbook and the Programmes offered by the parent university, Anna University, Chennai can be taken as guidelines instead of designing an entirely new programme.

The chairman then conveyed that based on the situation, if the following UG or PG course can be considered for offering after the NBA accreditation:

- UG course on Computer Science and Business Systems
- PG course on Cyber Forensics and Information Security

The members of the BoS approved the same.



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#### Concluding Remarks:

- Dr.P.Subathra assured to incorporate the suggestions in the syllabus. She informed that she will disclose the suggestions from Dr.R.Rajesh with all the BoS members once received.
- Dr.E.Vakaimalar, UG Coordinator of IT department proposed the vote of thanks
- With the consent from all the BoS members, the meeting was adjourned.

#### Comments from Dr. R.Rajesh, M.E., Ph.D.,

The recorded video was sent to Dr. R.Rajesh, M.E., Ph.D., and he communicated to the department BoS in charge over phone and gave his acknowledgement to the suggestions given by the members of the BoS and has given his consent on the approval of the syllabi for the current curriculum through Email on 27.08.2021.

#### Approved by:

- |                                    |   |                          |
|------------------------------------|---|--------------------------|
| 1. Dr. P. Subathra M.E., Ph. D,    | - | Chairman of the BoS      |
| 2. Dr. C.Deisy, M.E., Ph.D., ,     | - | Anna University Nominee  |
| 3. Dr. A.Kandasamy, M.Sc., Ph.D.,  | - | AC nominated BoS Members |
| 4. Dr. R.Rajesh, M.E., Ph.D.,      | - | AC nominated BoS Members |
| 5. Dr. K.Poyyamozi, M.C.A., Ph.D., | - | Industrial Expert        |
| 6. Er. B.Selvakumar. M.E.,         | - | Alumni                   |



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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Minutes of Meeting – 08<sup>th</sup> May, 2021

### MINUTES OF THE 2<sup>nd</sup> ONLINE MEETING

#### BOARD OF STUDIES ELECTRICAL AND ELECTRONICS ENGINEERING

DATE: 08-05-2021

TIME: 10.30 am to 12.30 pm

Platform: Microsoft Teams

Meeting Link: [shorturl.at/abAE7](https://shorturl.at/abAE7)

#### IN ATTENDANCE:

S. No.	Name of the Expert	Designation	Capacity
1.	Dr. M. Saravanan	Professor Department of EEE Thiagarajar College of Engineering, Madurai.	AU Nominee
2.	Dr. Sishaj P Simon	Associate Professor Department of EEE National Institute of Technology, Trichy.	Academic Council nominated BoS Members
3.	Dr. S. Jeevananthan	Professor Department of EEE Pondicherry Engineering College, Pondicherry.	
4.	Dr. K. Janakiraman	Head – Technical M/s. OBO BETTERMANN India Pvt. Ltd., Chennai	Industrialist
5.	Er. R.V. Prathiba	Research Scholar Department of EEE Thiagarajar College of Engineering, Madurai.	Alumni



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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S. No.	Name of the Faculty	Designation
1.	Dr. D. Prince Winston	Professor & Head / EEE Chairman, Board of Studies (EEE Board)
2.	Dr. S.Kalyani	Professor / EEE Dean (Examination)
3.	Dr. M. Sudalaimani	Assistant Professor / EEE
4.	Dr. S. Rajesh Babu	Assistant Professor / EEE
5.	Dr. J. Jeslin Drusila Nesamalar	Assistant Professor / EEE
6.	Mrs. B. Noorul Hamitha	Assistant Professor / EEE
7.	Mrs. V. Chandra	Assistant Professor / EEE
8.	Mr. B. Guru Karthik Babu	Assistant Professor / EEE
9.	Mr. A. Azarudeen	Assistant Professor / EEE
10.	Mr. D. Mariappan	Assistant Professor / EEE
11.	Mr. K. Ganesan	Assistant Professor / EEE
12.	Mr. S. Jegan	Assistant Professor / EEE
13.	Mrs. S. Vimala Devi	Assistant Professor / EEE
14.	Mrs. C. Nagadevi	Assistant Professor / EEE
15.	Mr. A. Karthikeyan	Assistant Professor / EEE
16.	Mr. R. Ganesan	Assistant Professor / EEE
17.	Ms. R. Reenu	Assistant Professor / EEE
18.	Mr. T. Hari Prasath	Assistant Professor / EEE





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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Minutes of Meeting – 08<sup>th</sup> May, 2021

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#### **THE MINUTES:**

The meeting is called for considering the Undergraduate curriculum & syllabi in R2020 Regulations.

#### **DISCUSSIONS:**

1. The meeting started in online mode in Microsoft Teams platform at 10.00am.  
**Dr. D. Prince Winston**, Professor & Head / EEE gave a warm cordial welcome to all the members of the Board of Studies.
2. **Dr. D. Prince Winston**, Professor & Head / EEE presented minutes of meeting and action taken report of 1<sup>st</sup> BoS Meeting held on 05<sup>th</sup> August 2020 to the experts.
3. **Dr. D. Prince Winston**, Professor / EEE presented the UG curriculum with detailed syllabi for semester 3 & 4.
4. **Dr. S. Kalyani**, Professor / EEE & Dean (Examination) presented the UG curriculum with detailed syllabi for semester 5 & 6.
5. **Dr. M. Sudalaimani**, Assistant Professor / EEE presented the UG curriculum with detailed syllabi for semester 7 & 8.
6. **Dr. J. Jeslin Drusila Nesamalar**, Assistant Professor / EEE presented the UG curriculum with detailed syllabi for professional elective courses 1 & 2.
7. **Dr. S. Rajesh Babu**, Assistant Professor / EEE presented the UG curriculum with detailed syllabi for professional elective courses 3 & 4.



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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8. Suggestions given by Experts for each UG course based on syllabus presented follows herein

S. No.	Name of the Course	Comments	Modification / Justification
1.	Electron Devices and Circuits	<ul style="list-style-type: none"> <li>• Dr. S. Jeevananthan &amp; Dr. M. Saravanan suggested that title of Unit 1 can be changed as “Semiconductor diodes and applications” and the topic UJT in Unit 1 can be moved to Unit 2</li> <li>• Dr. S. Jeevananthan suggested that design of amplifiers for any particular application with one case study can be given.</li> <li>• Dr. M. Saravanan suggested that type of FET amplifier and power amplifier can be specified in particular as mentioned in BJT like CC, CE, CB.</li> <li>• Dr. Sishaj P Simon enquired about the allocation of credits and total periods allotted.</li> </ul>	<ul style="list-style-type: none"> <li>• Modifications made for all suggestions given by the experts</li> <li>• Title of Unit 1 changed as “Semiconductor diodes and its applications”</li> <li>• UJT characteristics and application as relaxation oscillator, moved to unit 2.</li> <li>• design of single stage RC coupled amplifier using BJT added.</li> <li>• Changed as Small signal analysis CS and CD configuration of FET amplifier instead of Small signal analysis of FET amplifier.</li> </ul>



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S. No.	Name of the Course	Comments	Modification / Justification
2.	DC Machines and Transformers	<ul style="list-style-type: none"> <li>• Dr. K. Janakiraman suggested to include the practical applications of machines / transformers used in industries wherever necessary.</li> <li>• Dr. S. Jeevanathan enquired whether by excluding unit 2 will be there any difficulty in learning other units. Also he enquired whether the allotted 12 hours will be sufficient for unit 3.</li> <li>• Dr. M. Saravanan &amp; Dr. Sishaj P Simon suggested that topics like Auto transformer and 3-phase transformer can be kept in a separate unit, as Unit 3 seems to be more heavy.</li> </ul>	<ul style="list-style-type: none"> <li>• As per the suggestion, the changes are incorporated in the latest syllabus.</li> <li>• Concepts in Rotating Machines and Introduction of Transformers has been merged as Unit 2.</li> <li>• In the revised syllabus, the allotted hours will be sufficient for all units.</li> </ul>
3.	Power Plant Engineering	<ul style="list-style-type: none"> <li>• Dr. K. Janakiraman suggested that Design of 1 kW and 1 MW solar plant can be included in unit 4.</li> </ul>	<ul style="list-style-type: none"> <li>• Design of 1 kW and 1 MW solar plant is included in unit 4</li> </ul>
4.	Transmission and Distribution	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan suggested that Synchronous condenser in unit 5 can be removed as it is not used nowadays in practical applications.</li> </ul>	<ul style="list-style-type: none"> <li>• The topic Synchronous condenser in unit 5 is removed.</li> </ul>

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S. No.	Name of the Course	Comments	Modification / Justification
5.	Electronic Devices and Circuits Laboratory	<ul style="list-style-type: none"> <li>Dr. M. Saravanan &amp; Dr. Sishaj P Simon suggested the title of all experiments should be generalized and any specific instrument / kit need be mentioned in the title of the experiment.</li> </ul>	<ul style="list-style-type: none"> <li>Removed the instrument company name in Ex.1</li> </ul>
6.	Listening & Speaking	<ul style="list-style-type: none"> <li>Dr. Sishaj P Simon, Dr. M. Saravanan &amp; Dr. K. Janakiraman suggested that title of the course is not professional and it can be modified in consultation with the HoD / English.</li> </ul>	<ul style="list-style-type: none"> <li>The title has been changed as “Interpersonal Skills - Listening and Speaking”</li> </ul>
7.	AC Machines	<ul style="list-style-type: none"> <li>Dr. M. Saravanan suggested that pole changing and cascade connections can be removed from unit IV as they are not used much nowadays.</li> </ul>	<ul style="list-style-type: none"> <li>As per the suggestion, the topics were removed</li> </ul>

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S. No.	Name of the Course	Comments	Modification / Justification
8.	Linear and Digital Integrated Circuits	<ul style="list-style-type: none"> <li>• Dr. S. Jeevananthan suggested that in unit 1 topics related to IC fabrication can be mentioned in detail by including sub-topics for better clarity.</li> <li>• Dr. S. Jeevananthan and Dr. Sishaj P Simon suggested that in unit 2 the introduction of Op-amp can be included before Op-amp characteristics.</li> <li>• It is suggested that the title of unit 5 need to be changed as Design and Analysis of Synchronous and Asynchronous Sequential circuits.</li> </ul>	<ul style="list-style-type: none"> <li>• As per the suggestion it the fabrication of diodes, capacitors, transistors and resistors topic will be mentioned clearly</li> <li>• Unit 2 will be renamed as Op-amp characteristics</li> <li>• Unit 5 will be changed as Design and Analysis of Synchronous and Asynchronous Sequential circuits</li> </ul>
9.	Measurements and Instrumentation	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan suggested that in unit 3 the topic magnetic tape can be removed.</li> </ul>	<ul style="list-style-type: none"> <li>• Magnetic Tape Recorder is one of a old technology no one is using currently so it is removed.</li> </ul>

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S. No.	Name of the Course	Comments	Modification / Justification
10.	Linear and Digital Integrated Circuits Laboratory	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan suggested</li> <li>• In title of exp. 1, instead of amplifier circuits, various circuits can be mentioned as all are not amplifiers.</li> <li>• The instrument name to be removed in title of Exp. 2</li> <li>• The types of waveforms which will be generated to be mentioned in Exp. 5.</li> <li>• The Special ICs used in Exp. 6 to be mentioned explicitly.</li> </ul>	<ul style="list-style-type: none"> <li>• The name of the amplifier circuit will be mentioned</li> <li>• The Texas instruments name will be removed</li> <li>• Name of the waveforms will be mentioned</li> <li>• Special ICs name will be mentioned.</li> </ul>

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S. No.	Name of the Course	Comments	Modification / Justification
11.	AC Machines Laboratory	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan suggested that 1-phase and/or 3-phase machine is used can be mentioned wherever applicable in all experiments.</li> <li>• Er. R. V. Prathiba suggested that practice on simulation software to carry out the experiments can be given to students in laboratories, wherever possible.</li> <li>• Dr. S. Jeevananthan suggested that full working videos of doing the experiment can be recorded in the lab with the help of faculty / lab instructors and the same can be sent to students for better understanding</li> </ul>	<ul style="list-style-type: none"> <li>• As per the suggestion, the corrections were done</li> <li>• Simulation based experiments , video recordings can be added in the content beyond syllabus</li> </ul>
12.	Advanced Reading and Writing	<ul style="list-style-type: none"> <li>• Dr. Sishaj P Simon &amp; Dr. M.Saravanan suggested that the title of the course can be renamed suitably to be more professional.</li> </ul>	<ul style="list-style-type: none"> <li>• The title has been changed as “Introduction to Advanced Reading and Writing”</li> </ul>





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S. No.	Name of the Course	Comments	Modification / Justification
13.	Microprocessors and Microcontrollers	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan &amp; Dr. Sishaj P Simon suggested</li> <li>• In Unit 4 peripheral Interface ICs can be removed as they are not used nowadays.</li> <li>• Embedded C programming (parallel port, serial port and timer etc.) of 8051 microcontroller can be included.</li> <li>• In unit 5, key board and display interface can be removed and microcontroller applications can be included.</li> </ul>	<ul style="list-style-type: none"> <li>• As the course is common for EEE and EIE syllabus was framed as per the anna university regulation 2017.</li> <li>• The course relates with laboratory however fundamental concepts were essential.</li> <li>• In unit 5 key board and display interface were removed.</li> <li>• In unit 5 Introduction to Embedded C Programming is included.</li> </ul>
14.	Control and Instrumentation Laboratory	<ul style="list-style-type: none"> <li>• Dr. Sishaj P Simon suggested that open source software packages such as SCILAB is available as an alternative to MATLAB. Hence, he suggested not to mention the name of any specific software in experiment titles.</li> <li>• Dr. M. Saravanan asked to check the terms about the sensor or sensors (if multiple sensors are used) and machine or machines and change accordingly.</li> </ul>	<ul style="list-style-type: none"> <li>• As per the suggestions, the corrections were done.</li> <li>• Instead of specifying MATLAB software, it was mentioned generally as 'suitable software package'.</li> <li>• The spelling mistake was corrected.</li> </ul>



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S. No.	Name of the Course	Comments	Modification / Justification
15.	Microprocessors and Microcontrollers Laboratory	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan suggested that</li> <li>• Peripheral Interface ICs experiments can be removed.</li> <li>• Experiments regarding 8051 assembly and embedded C program can be added.</li> <li>• Title of the exp.12 can be changed as “Hardware development for any application using embedded processor”.</li> </ul>	<ul style="list-style-type: none"> <li>• To have practical knowledge on interfacing concepts the experiments were included.</li> <li>• Experiments related with embedded C programs were added.</li> <li>• Title of the experiment 12 is modified.</li> </ul>
16.	Digital Signal Processing	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan suggested that in unit 5 introduction to commercial DSP processors can be given instead of introduction to commercial processors</li> </ul>	<ul style="list-style-type: none"> <li>• As per the suggestion, the corrections were done</li> </ul>



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S. No.	Name of the Course	Comments	Modification / Justification
17.	Power Electronics and Drives	<ul style="list-style-type: none"> <li>• Dr. Sishaj P Simon &amp; Dr. M. Saravanan asked to correct the spelling in the title of the course.</li> <li>• Dr. M. Saravanan suggested that</li> <li>• In Unit 2 content is heavy and can be reduced.</li> <li>• In Unit 3 only 1-phase cyclo-converter is sufficient.</li> <li>• In Unit 5 introduction to vector control of induction motor (at block diagram level) can be included.</li> </ul>	<p>Modified as per the suggestions.            Subject to the approval by the Subject Expert            Dr. D. Prince Winston.</p>
18.	Renewable Energy Systems	<ul style="list-style-type: none"> <li>• Dr. Sishaj P Simon clarified whether this course deals with RE sources or RE systems.</li> <li>• Dr. Sishaj P Simon asked to check is there any repetition of topics in comparison with Power Plant engineering course offered in Semester 3.</li> </ul>	<p>This course deals with RE Systems and RE Sources are discussed in Power Plant Engineering.            There is no repetition of topics in Power Plant Engineering.</p>



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S. No.	Name of the Course	Comments	Modification / Justification
19.	Power Electronics and Drives Laboratory	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan suggested that exp. 1 should be changed as Gate Pulse Generation using R, RC and UJT triggering circuit.</li> <li>• Exp. 4 &amp; 10 can be renamed as speed control instead of characteristics.</li> <li>• 1-phase and/or 3-phase can be mentioned wherever applicable.</li> <li>• In exp.5 AC to DC can be removed and renamed accordingly.</li> </ul>	<ul style="list-style-type: none"> <li>• Modified as per the suggestions.</li> <li>• Subject to the approval by the Subject Expert Dr. D. Prince Winston.</li> </ul>
20.	Power System Operation and Control	<ul style="list-style-type: none"> <li>• Dr. Sishaj P Simon suggested that in unit 5 “some basic state estimator” can be removed as it is found repetitive.</li> </ul>	<ul style="list-style-type: none"> <li>• As per the suggestion, the topic “some basic state estimator” was removed from UNIT V</li> </ul>
21.	Power System Simulation Laboratory	<ul style="list-style-type: none"> <li>• Dr. Sishaj P Simon suggested that open source software can be used for the simulation experiments and name of any specific software need not be mentioned in any experiment.</li> </ul>	<ul style="list-style-type: none"> <li>• Every circuit open-source software and application is available for the simulation of power system experiments.</li> <li>• Name of the software is not mentioned anywhere in the list of experiments</li> </ul>



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S. No.	Name of the Course	Comments	Modification / Justification
22.	Mini Project	<ul style="list-style-type: none"> <li>Dr. Sishaj P Simon and Dr. M. Saravanan suggested to mention the batch size for each group as 3 to 4. This will confirm the equal contribution by the students.</li> </ul>	<ul style="list-style-type: none"> <li>Modification done as per comment</li> </ul>
23.	Advanced Control Systems	<ul style="list-style-type: none"> <li>Dr. M. Saravanan asked to check the alignment and formatting.</li> </ul>	<ul style="list-style-type: none"> <li>The formatting was done.</li> </ul>
24.	Fundamentals of IoT	<ul style="list-style-type: none"> <li>Dr. Sishaj P Simon and Dr. M. Saravanan suggested to change the title as “Internet of Things &amp; its Applications”</li> <li>Dr. M. Saravanan suggested to include the recent editions in the reference books.</li> </ul>	<ul style="list-style-type: none"> <li>Changes done as per the comments</li> </ul>
25.	Smart Grid	<ul style="list-style-type: none"> <li>Dr. Sishaj P Simon suggested to move the course to semester 7 as it requires some prerequisite knowledge on power system related courses.</li> <li>Dr. Sishaj P Simon suggested to remove PMU in unit 4 and to include Demand Response Management in unit 3.</li> </ul>	<ul style="list-style-type: none"> <li>PMU topic Removed in unit IV</li> <li>Added Demand Response Management in Unit 3</li> </ul>
26.	Design of Electrical Apparatus	<ul style="list-style-type: none"> <li>Dr. M. Saravanan asked to change KVA to kVA in Unit-II.</li> </ul>	<ul style="list-style-type: none"> <li>The correction was made as per the suggestion</li> </ul>



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S. No.	Name of the Course	Comments	Modification / Justification
27.	Electric Vehicles and Management	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan &amp; Dr. Sishaj P Simon suggested to include V2G and G2V concepts in unit 5.</li> <li>• The title can be made as electric vehicles or electric vehicles and energy management.</li> </ul>	<ul style="list-style-type: none"> <li>• Modified as per the suggestions.</li> <li>• Subject to the approval by the Subject Expert Dr. D. Prince Winston.</li> </ul>
28.	Restructured Power Systems	<ul style="list-style-type: none"> <li>• Dr. Sishaj P Simon suggested that Unit commitment in restructuring (profit based or price based) can be included.</li> </ul>	<ul style="list-style-type: none"> <li>• The correction was made as per the suggestion</li> </ul>
29.	Machine Learning Algorithm for Electrical Engineering	<ul style="list-style-type: none"> <li>• Dr. Sishaj P Simon suggested that references can be mentioned in detail including the edition, publishers etc.</li> </ul>	<ul style="list-style-type: none"> <li>• The correction was made as per the suggestion. One book has been added.</li> </ul>
30.	Modern Power Converters	<ul style="list-style-type: none"> <li>• Dr. M. Saravanan asked to change the title of unit 1 and the topic power system harmonics can be removed.</li> <li>• The relevance of reference books included need to be checked.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
31.	Energy Storage Technology	<ul style="list-style-type: none"> <li>• Dr. Sishaj P Simon &amp; Dr. M. Saravanan suggested that compressed air technologies can be included in unit 1 or wherever applicable.</li> </ul>	<ul style="list-style-type: none"> <li>• Compressed air storage technology will be included in the first unit</li> </ul>



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S. No.	Name of the Course	Comments	Modification / Justification
32.	High Voltage Engineering	<ul style="list-style-type: none"> <li>Dr. M. Saravanan suggested that AC / DC high voltage system available in our country can be added as a case study or introduction.</li> </ul>	<ul style="list-style-type: none"> <li>As per the suggestion, the topics were included</li> </ul>
33.	Industrial Automation	<ul style="list-style-type: none"> <li>Dr. Sishaj P Simon &amp; Dr. M. Saravanan suggested that in unit 4 study of any one DCS available in market could be specifically mentioned. (Ex. Siemens DCS) or case study on commercial DCS.</li> </ul>	<ul style="list-style-type: none"> <li>As per the suggestion, the topic has been included</li> <li>Also the title has been changed as “Introduction to Industrial Automation”</li> </ul>
34.	Power Electronics for Renewable Energy System	<ul style="list-style-type: none"> <li>Dr. M. Saravanan suggested whether three-phase AC voltage controllers in unit 3 is necessary to be included.</li> </ul>	<ul style="list-style-type: none"> <li>Three-phase AC voltage controllers needed in wind energy system because the basic of bidirectional control were covered in that topic.</li> </ul>
35.	Fundamentals of Nanoscience	<ul style="list-style-type: none"> <li>Dr. S. Jeevananthan asked to change the title of the course</li> </ul>	<ul style="list-style-type: none"> <li>The title has been changed to “Nano Technology”</li> </ul>

9. **Dr. S. Kalyani, Professor / EEE & Dean (Examination)** presented the three member committee list for online courses (mandatory for 6 credits for each student), value added courses (optional) and industrial internship (optional) for the approval of BoS members. She also explained in detail about the process followed for approving the students' performance in such courses. The external BoS members approved the three member committee list.

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10. **Dr. S. Kalyani, Professor / EEE & Dean (Examination)** presented the list of panel members for staff selection and examination process. Dr. M. Saravanan suggested to include Dr. Sishaj P Simon and Dr. S. Jeevananthan in that list for staff selection.
11. The report on the university result analysis was presented. Dr. Sishaj P Simon & Dr. M. Saravanan commented on the result of 2<sup>nd</sup> year as the pass percentage is 42% and requested to give more care and concern for II year students to improve their performance in the upcoming examinations.
12. The external BoS members asked the HoD / EEE to send the Open elective courses, Value added courses and other documents through online for their approval.
13. **Date of next meeting:** The next meeting will be held after 6 months. (Tentatively, 3<sup>rd</sup> week of January, 2022).
14. **Dr. S. Kalyani, Professor / EEE & Dean (Examination)** proposed the vote of thanks to all the external and internal experts and the meeting adjourned.





(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C.Nagar, K.Vellakulam - 625 701, (Near Virudhunagar), Madurai District.

**DEPARTMENT OF BIOTECHNOLOGY**

**MINUTES OF THE 2<sup>nd</sup> ONLINE MEETING**

**BOARD OF STUDIES OF BIOTECHNOLOGY**

**DATE:** 11<sup>th</sup>, May, 2021, Tuesday

**Time:** 10.00 AM – 2.30 PM

**PLATFORM:** GOOGLE MEET

**Meeting Link:** [meet.google.com/itn-qoxh-atw](https://meet.google.com/itn-qoxh-atw)

**IN ATTENDANCE:**

S. No	Name of the Expert	Designation	Capacity
1	Dr. Sukumaran Prabhu	Professor, Department of Biotechnology, Sri Venkateswara College of Engineering, Pennalur, Sriperumnudur tk – 602117	Anna University Nominee
2	Dr. A.Santhiagu	Professor, School of Biotechnology, NIT Calicut, Kerala-673601.	Academic Council Nominee
3	Dr. N.Ayyadurai	Senior Scientist, Biochemistry & Biotechnology, CSIR-Central Leather Research Institute, Adyar, Chennai – 600 020.	
4	Dr. K. Rajeshwari	Founder and Managing Director, Bioklone Biotech Private Limited , Plot No.14 and 15, Golden Jubilee Biotech Park, Siruseri, Navalur, Chennai – 603 103, Tamil Nadu.	Industrialist
5	Ms.S.Sivagamasunthari	Associate Scientist, Biocon Park , SEZ, BommasandraJigani Link Rd, Phase-IV, Bommasandra Industrial Area, Bengaluru, Karnataka 560099.	Alumni



<b>S. No</b>	<b>Name of the Faculty</b>	<b>Designation</b>
1	Dr. M. Vasanthi	Chairperson / HoD-BT
2	Dr. Anant Achary	Principal and Senior Professor / BT
3	Dr. R. Shyam Kumar	PG Programme Coordinator
4	Dr. S. Mariaamalraj	UG Programme Coordinator
5	Dr. K. Geetha	Research Programme Coordinator
6	Dr. I. Ganesh Moorthy	Associate Professor / BT
7	Dr.S.Karthikumar	Assistant Professor / BT
8	Mr. S. Manibalan	Assistant Professor / BT
9	Er.M. Soundaryalakshmi	Assistant Professor / BT
10	Dr.V. C. Padmanaban	Assistant Professor / BT
11	Dr. A. Ronaldo Anuf	Assistant Professor / BT
12	Er. R. Amuthalakshmi	Assistant Professor / BT
13	Dr.D.Pradiba	Assistant Professor / BT

### **THE MINUTES:**

The meeting was called for considering the Undergraduate curriculum and syllabi, PG amendments in open electives and approval of the three member committee for online course (UG/PG), value added courses and Industry Internship.

### **DISCUSSIONS:**

1. Dr. M. Vasanthi, the Chairperson, welcomed the gathering and introduced the process of syllabus framing in detail to the Board of studies members.
2. Dr. S. Mariaamalraj, the UG programme coordinator, presented the proposed UG syllabus to the BoS members.
3. Dr. Sukumaran Prabhu, the Anna University nominee, suggested to cross check that the course objectives and Course Outcomes are aligned across all the courses.
4. The Anna University nominee, suggested inclusion of tutorial hour in “Cell Biology” course to enable teaching the students the basic concepts through animations and videos. Dr. A. Santhiagu, Academic Council nominee, clarified that if related video contents and animations could be shared during the regular hours, then there will not be a need for the tutorial hours. The point was accepted by all the members.
5. All the BoS expert committee members gave their approval for the syllabus of Microbiology without any modifications.
6. In the Stoichiometry course, the Academic Council nominee Dr. A. Santhiagu suggested that “application of sterilization and fermentation” can be included in the unit “Energy balance”. He also suggested that “applications of stoichiometry in biochemical reactions” can be included. Further, he recommended to shuffle the basics of chemical reaction

contents to an appropriate place. The suggestions were well taken and modifications were included in the syllabus by Dr. I. Ganesh Moorthy, the subject expert.

7. In Thermodynamics for Biotechnologist course, the Anna University nominee recommended to include “applications of thermodynamic concepts in biochemical reactions” throughout the syllabus. He also suggested to include case studies related to thermodynamic concepts in biotechnology in all the Units. Dr. Anant Achary, Principal and Senior Professor, also opined that the suggestions given by the Anna University nominee are very vital and need to be included in the syllabus. The suggestions were well taken and included in the syllabus.
8. The Anna University nominee recommended to specify the cell type to be studied under “Differential Fractionation” experiment in Cell Biology laboratory. The suggestions were included in the revised syllabus.
9. Dr.K.Rajeshwari, the Industry representative, suggested inclusion of bacterial system identification in “Microscopic identification of Yeast/Molds” experiment in Microbiology laboratory course. Dr. R. Shyam Kumar, PG programme coordinator, explained that since other experiments in this course will be carried out using bacteria, observation of pre-mounted yeast and molds cells alone will be demonstrated in the experiment “Microscopic identification of Yeast/Molds”.
10. In Analytical Methods of Instrumentation course, the Anna University nominee, suggested to revise the title of UNIT-I as “Introduction to Electromagnetic radiation”. He also recommended to include advanced chromatographic techniques in UNIT-IV. The suggestions were well taken and implemented.
11. In Basic Industrial Biotechnology course, the Academic Council nominee, Dr. A. Santhiagu and Dr. K. Rajeshwari the Industry representative, suggested to bring the topic “Insulin” first in the list of recombinant products in UNIT-V. Also, the Anna University nominee as well as Industry representative, pointed out the incompleteness of the term “Future aspects” in UNIT-V and both of them suggested to include “Vaccines” as sub-topic of the Future aspects. All the suggestions are included in the revised syllabus.
12. In Enzyme Technology and Biotransformation course, the Anna University nominee, suggested to include the topic “Effect of salt and ionic concentration on enzyme activity” in addition to “effect of pH and Temperature” in UNIT-II. Dr. Anant Achary opined the same. The suggestions were accepted and included in the syllabus.
13. In Molecular Biology course, the Anna University nominee suggested to reorganize UNIT– I (Introduction to Nucleic acid) by shifting the topic “Organization of chromosome” to the first for better flow of content. The suggestions were well taken and included in the modified syllabus.
14. All the BoS members accepted the syllabus of “Fluid Mechanics and Heat Transfer Operation” without any modification.

15. In Chemical Engineering Laboratory for Biotechnologist course, Dr. A. Santhiagu, Academic Council nominee, suggested to mention the experiment name as “Adsorption isotherms” instead of “Adsorption”.
16. In Instrumentation and methods of analysis lab, the Anna University nominee, suggested to use “biological solutions” instead of “inorganic chemicals” in the experiments. The suggestions were included in the revised syllabus.
17. In Bioprocess Principles course, Industry representative, suggested to change the topic “Phases of Microbial growth” to “Phases of Bacterial growth” in Unit I for better clarity and specificity. The point was well taken and modification has been made in the syllabus.
18. In Genetic Engineering course, the Anna University nominee, sought clarification in Units I and III regarding inclusion of topics like star activity and basics of sequencing techniques. Dr K.Geetha, Subject expert, clarified that star activity was mentioned with respect to restriction enzymes and the two basic methods of sequencing were already included in the syllabus. Industry representative enquired if Unit II will be covering both prokaryotic and eukaryotic host cells under the topic “introduction of rDNA into host cells”. It was clarified that both prokaryotic and eukaryotic systems will be covered.
19. All the committee members approved the syllabus of Mass transfer Operation (BT1503) unanimously.
20. All the committee members approved the syllabus of Bioprocess Laboratory I (BT1511) unanimously.
21. In Molecular Biology and Genetic Engineering Laboratory course, the Anna University nominee suggested to shift Agarose Gel electrophoresis experiment after DNA isolation. Dr K.Geetha, Subject expert, informed him that the students will find it easy to analyze the isolated DNA sample in agarose gel after DNA isolation experiment if they already know the technique. Hence it would be much convenient to keep Agarose gel electrophoresis as first experiment. He also enquired about the need for Western blotting experiment which was clarified by pointing out that the students will be analyzing the expressed protein after IPTG induction studies. BoS Industry representative suggested to shift Experiments 4, 5, 6 & 7 after Experiments 8 and 9 for better flow of the content. It was put forth that the current order of experiments better justifies the steps involved in rDNA technology. Anna University nominee suggested to change the title of Experiment 4 to “Restriction **enzymes** digestion of DNA” as more than one enzyme will be used for digestion. The necessary modification have been included in the syllabus.
22. The Anna University nominee suggested to cross verify the syllabus of the course “Bioinformatics” with that of “Genomics and Proteomics” for any overlaps. He suggested to include MATLAB in Bioinformatics lab syllabus. The suggestions were included in the syllabus.
23. The Syllabus of Bioprocess Engineering was accepted without any modifications by the experts.

24. The Anna University nominee enquired whether exam fee for the NPTEL courses (under online courses category) will be paid by college for the students. The Chairperson stated that the students will be paying their exam fee for NPTEL exams they undertake.
25. The Anna University nominee enquired whether students will be allowed to handle fermentor during the Bioprocess Engineering laboratory. The UG programme coordinator replied that the students are given hands on training to handle bioreactor and as per the requirement of the experiment, representative boy students stay overnight in the laboratory and carryout experiments such as batch culture.
26. All the committee members accepted the framed syllabus for “Downstream Processing” without any modification.
27. In Immunology course, the Anna University nominee enquired whether the topic “Antigen Presenting Cells” in Unit I covered only macrophages or other types of APCs also. It was clarified that both professional and non-professional APCs will be covered in the mentioned topic.
28. The industry representative suggested that the topic “therapy” in Unit IV should be clearly specified and it was clarified by Dr. K.Geetha that it was a continuation of Autoimmunity topic. The content of Unit V received appreciation from the external members.
29. In Downstream Processing (DSP) Laboratory course, the Anna University nominee enquired about the difference between “Cell disruption by homogenization” topics which was also included in Cell Biology Laboratory. It was clarified that unlike cell biology lab, in DSP lab, the optimization of process parameters for cell disruption would be experimented.
30. Dr. N. Ayyadurai, the Academic council nominee, enquired about the availability of high-pressure homogenizer in the department.
31. In Immunology Lab course, the status of institutional animal ethical committee (IAEC) renewal and procurement of animals were discussed and clarified. The Anna University nominee informed that the chairperson should possess a copy of the UGC guidelines regarding conduct of animal dissection and an Animal dissection committee should be formed in the department.
32. In Mini Project course, the Anna University nominee enquired whether the mini project will be continued as main project in their final semester. It was clarified that it could be continued as main project.
33. In Advanced Biochemistry course, the Anna University nominee, suggested to include topics related to carbohydrate metabolism in Unit III. The Chairperson and the subject expert accepted the suggestion and included Starch Biosynthesis, Glycogen synthesis and degradation in Unit III. In addition to that, based on the suggestions, the total contact hours for Unit III have been increased to 12 contact hours whereas total contact hours for Unit II have been reduced to 6.
34. **The Anna University nominee, suggested to change Chemical Reaction Engineering (CRE) course as Professional Core from Professional Electives as this course will**

**provide the basics for Bioprocess Engineering. It was clarified that, CRE is not the basic requirement of Bioprocess engineering. Further it was put forth by Prof. Anant Achary that all the pre-requisites for Bioprocess engineering course have been met in semester III, IV, and V. This was justified by other internal BoS members that if CRE was the basis for Bioprocess Engineering, it should have been given in the earlier semesters by Anna University in their previous regulations which was not the case. It was brought to the notice of the experts that in Anna University new regulation R2019 also CRE has been shifted to Elective courses. Other autonomous Institutions like Bannari Amman Engineering College and MEPCO Schlenk Engineering College also the same is being followed. Prof. Anant Achary suggested that “Biochemical Engineering” course could be included in the next syllabus revision.**

**PPT attached for further clarification. (PPT file is attached). This has been attached to show that other autonomous institutions have chosen to bring Chemical Reaction Engineering course as a professional elective. The internal members of the BoS also expressed the difficulty in bringing this course as professional core due to overall credit restrictions. This course is hence recommended to be provided as Professional Elective paper**

35. In Fundamentals of Nano Sciences course, all the experts were satisfied with the framed syllabus and appreciated inclusion of all the Nano biotechnology related topics in Unit V.
36. In Metabolic Engineering course, the Anna University Nominee advised to include tutorial hours. Dr. D. Pradiba, subject expert, explained that the content delivery incorporates tutorial type classes. Also, as this course is an elective, additional tutorial hour /credits shall disturb the balance in credits. The point was well taken.
37. In Animal Biotechnology course, the Anna university nominee suggested to swap Unit I and II. However, the industry nominee commented that the existing order maintains the flow well and the syllabus can be accepted without any change.
38. In Tissue Engineering course, the industry nominee commented that the syllabus was very elaborate and covered all the necessary aspects quite extensively. Hence it requires no change.
39. In Cancer Biology course, the industry nominee recommended to include the topic “Antibody directed enzyme prodrug therapy” in the syllabus. The suggestion was well taken and included in Unit V.
40. For Genomics and Proteomics course, the Anna University Nominee recommended to include MATLAB in the syllabus. The suggestion was accepted and included in the syllabus.
41. In Good Manufacturing and Laboratory Practice course, the industry nominee suggested to modify the course title as “Good Manufacturing Practice and Good Laboratory Practice”. She also suggested to include the Pollution control board certification procedure for laboratory accreditation. The suggestions were included in the revised syllabus.

42. In Bio-conjugate Technology and Applications course, Dr. N. Ayyadurai, Academic council nominee suggested to include the topic “Click Chemistry” in Unit II. He also recommended to include the application of Biomaterials (Nanomaterials) instead of synthetic polymers in Unit V. The necessary modification have been included in the syllabus.
43. In Biopharmaceutical Technology course, the Anna University nominee suggested to include Toxicity of drugs in the syllabus. Also, the industry nominee recommended to include ADA topic in the syllabus. The suggestions were accepted and included in the syllabus.
44. In Neurobiology and Cognitive Sciences course, the Anna University nominee, recommended to include Artificial Neural network (ANN) topic. The suggestions were incorporated in the syllabus.
45. The Chairperson presented the proposed list of three members committee for Online course (UG/PG), Value added course and Industrial Internship for approval of Board of studies members. The list was approved by the experts.
46. The Chairperson explained to the board of studies members that the PG students are encouraged to do industrial certification course as per the regulation. Further, chairperson informed that an extension of approval needs to be sought from Committee for the exception of the industrial certification course for the batch alone due to the pandemic situation.
47. The end semester results of II, III and IV year UG programme was presented to the BoS members by the chairperson.
48. PG programme coordinator proposed the vote of thanks.

**Anna university R2019**  
**Industrial Biotechnology**

ANNA UNIVERSITY, CHENNAI  
UNIVERSITY DEPARTMENTS  
B. TECH. INDUSTRIAL BIOTECHNOLOGY  
REGULATIONS – 2019  
CHOICE BASED CREDIT SYSTEM  
CURRICULUM AND SYLLABI FOR I TO VIII SEMESTERS  
PROFESSIONAL ELECTIVES COURSES (PEC)

Sl. No.	CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	IB5001	Advanced Biochemistry	PEC	3	0	0	3	3
2	IB5002	Animal Biotechnology	PEC	3	0	0	3	3
3	IB5071	Bio conjugate Technology and Applications	PEC	3	0	0	3	3
4	IB5003	Bioethics	PEC	3	0	0	3	3
31	IB5022	Symbolic Mathematics	PEC	3	0	0	3	3
32	IB5023	Systems Biology	PEC	3	0	0	3	3
33	IB5024	Tissue Engineering	PEC	3	0	0	3	3
34	CH5751	Transport Phenomena	PEC	2	1	0	2	3
35	IB5073	Chemical Reaction Engineering	PEC	2	1	0	3	3
36	IB5025	Protein Structure and Function	PEC	3	0	0	3	3

**CRE in professional electives**





III SEMESTER										
Code No.	Course	L	T	P	C	Hours/ Week	Maximum Marks			Category
							CA	ES	Total	
18BT301	ENGINEERING MATHEMATICS III	3	1	0	4	4	50	50	100	BS
18BT302	PROCESS CALCULATIONS AND UNIT OPERATIONS	3	0	2	4	5	50	50	100	ES
18BT303	INSTRUMENTATION AND ANALYTICAL TECHNIQUES	3	0	0	3	3	50	50	100	ES
18BT304	CELL BIOLOGY	3	0	0	3	3	50	50	100	PC
18BT305	BIOORGANIC CHEMISTRY	3	0	0	3	3	50	50	100	PC
18BT306	MICROBIOLOGY	3	0	0	3	3	50	50	100	PC
18BT307	MICROBIOLOGY LAB	0	0	4	2	4	100	0	100	PC
18BT308	BIOCHEMISTRY AND BIOORGANIC CHEMISTRY LAB	0	0	4	2	4	100	0	100	ES
18GE301	SOFT SKILLS - VERBAL ABILITY	0	0	2	-	2	100	0	100	EEC
<b>Total</b>					<b>24</b>					-

IV SEMESTER										
Code No.	Course	L	T	P	C	Hours/ Week	Maximum Marks			Category
							CA	ES	Total	
18BT401	BIOPROCESS ENGINEERING	3	1	0	4	4	50	50	100	PC
18BT402	FUNDAMENTALS OF TRANSPORT PROCESS	3	1	0	4	4	50	50	100	ES
18BT403	IMMUNOLOGY	3	0	2	4	5	50	50	100	PC
18BT404	MOLECULAR BIOLOGY	3	0	0	3	3	50	50	100	PC
18BT405	PHARMACOGNOSY AND PHARMACOLOGY	3	0	0	3	3	50	50	100	PC
18BT406	CHEMICAL THERMODYNAMICS	3	1	0	4	4	50	50	100	ES
18BT407	BIOPROCESS LABORATORY	0	0	4	2	4	100	0	100	PC
18BT408	MOLECULAR BIOLOGY LABORATORY	0	0	4	2	4	100	0	100	PC
18HS001	ENVIRONMENTAL SCIENCE	2	0	0	-	2	100	0	100	HSS
18GE401	SOFT SKILLS- BUSINESS ENGLISH	0	0	2	-	2	100	0	100	EEC
<b>Total</b>					<b>26</b>					-

DISCIPLINE ELECTIVES										
18BT001	CANCER BIOLOGY	3	0	0	3	3	50	50	100	PE
18BT002	CELLULAR BIOPHYSICS	3	0	0	3	3	50	50	100	PE
18BT003	METABOLIC ENGINEERING	3	0	0	3	3	50	50	100	PE
18BT004	BIOPOLYMERS	3	0	0	3	3	50	50	100	PE
18BT005	BIOSENSORS	3	0	0	3	3	50	50	100	PE
18BT006	BIOMATERIALS	3	0	0	3	3	50	50	100	PE
18BT007	STEM CELL TECHNOLOGY	3	0	0	3	3	50	50	100	PE
18BT008	GENOMICS AND PROTEOMICS	3	0	0	3	3	50	50	100	PE
18BT009	PHARMACOVIGILANCE	3	0	0	3	3	50	50	100	PE
18BT010	VACCINE TECHNOLOGY	3	0	0	3	3	50	50	100	PE
18BT011	MOLECULAR MODELLING AND DRUG DESIGN	3	0	0	3	3	50	50	100	PE
18BT012	MOLECULAR PATHOGENESIS AND DISEASE DIAGNOSIS	3	0	0	3	3	50	50	100	PE
18BT013	BIOLOGICAL SPECTROSCOPY	3	0	0	3	3	50	50	100	PE
18BT014	BIOPROCESS MODELLING AND SIMULATION	3	0	0	3	3	50	50	100	PE
18BT015	INTELLECTUAL PROPERTY RIGHTS AND TECHNOLOGY TRANSFER	3	0	0	3	3	50	50	100	PE
18BT016	BIOETHICS AND BIOSAFETY	3	0	0	3	3	50	50	100	PE
18BT017	BIOREMEDIATION	3	0	0	3	3	50	50	100	PE
18BT018	BIOMASS AND BIOENERGY	3	0	0	3	3	50	50	100	PE
18BT019	WASTE MANAGEMENT AND UTILIZATION	3	0	0	3	3	50	50	100	PE
18BT020	BIODIVERSITY AND BIOPROSPECTING	3	0	0	3	3	50	50	100	PE

#### OPEN ELECTIVES

18BT0YA	BIOFUELS	3	0	0	3	3	50	50	100	PE
	MICROBIAL CULTIVATION AND									

There is no Chemical Reaction Engineering course either in professional core or professional Electives in Bannari Amman Engineering College curriculum

# In MEPCO Schlenk Engineering College, CRE is in professional electives

Mepco R2019

BTECH BIO TECHNOLOGY

## BTECH BIO TECHNOLOGY Curriculum and Syllabus

### Core Elective-1 (BBT)

S.No	Code	Name of the Course	Offered
1	19BTC01	BIOREMEDIATION TECHNOLOGY	BT
2	19BTC02	BIOPHYSICS	BT
3	19BTC03	NANO SCIENCE AND NANOTECHNOLOGY	BT

### Core Elective-2 (BBT)

S.No	Code	Name of the Course	Offered
1	19BTC04	PROCESS CONTROL AND INSTRUMENTATION DYNAMICS	BT
2	19BTC05	BIOPROCESS - MODELING, DESIGN AND SIMULATION	BT
3	19BTC06	BIOLOGICAL SPECTROSCOPY	BT
4	19BTC07	CHEMICAL REACTION ENGINEERING	BT



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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**Minutes of Meeting – 2<sup>nd</sup> BoS – 7<sup>th</sup> May, 2021**

**MINUTES OF THE 2<sup>nd</sup> ONLINE MEETING**

**BOARD OF STUDIES OF MECHANICAL ENGINEERING**

**DATE:** 7<sup>th</sup> May, 2021, Friday

**Time:** 3.00 PM – 7.00 PM

**PLATFORM :** GOOGLE MEET

**Meeting Link:** [meet.google.com/ogm-zccs-ray](https://meet.google.com/ogm-zccs-ray)

**IN ATTENDANCE:**

S.No	Name of the Expert	Designation	Capacity
1	<b>Dr. A. Valan Arasu, M.E., Ph.D.</b>	Professor/ Mechanical Engineering Thiagarajar College of Engineering, Madurai	Anna University Nominee
2	<b>Dr. S.C. Vettivel, M.E., Ph.D.</b>	Associate Professor/Mechanical Engineering Chandigarh College of Engineering and Technology, Chandigarh	Academic Council nominated BoS Members
3	<b>Dr. V. Anandhakrishnan, M.E., Ph.D.</b>	Associate Professor/Production Engineering National Institute of Technology, Tiruchirapalli	
4	<b>Er. K. Rajarathinam B.E.,</b>	Proprietor Essar Engineers, Coimbatore	Industrialist



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**Minutes of Meeting – 2<sup>nd</sup> BoS – 7<sup>th</sup> May, 2021**

5.	<b>Er. R. Mayakannan</b> M.Tech.,	CAE Engineer Renault Nissan Technology and Business Centre, Chennai	Alumni
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<b>FACULTY OF MECHANICAL ENGINEERING</b>	<b>MEMBERS</b>
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S.No	Name of the Faculty	Designation
1	Dr. S. Senthil	Chairman / HoD-MECH
2	Dr. S. S. Saravana Kumar	Associate Professor / MECH
3	Dr. P. Narayanasamy	Assistant Professor / MECH
4	Mr. T. Ramesh	Assistant Professor / MECH
5	Mr. S. Chidambara Kumaran	Assistant Professor / MECH
6	Mr. D. Palani Kumar	Assistant Professor / MECH
7	Mr. P. Siva Subramanian	Assistant Professor / MECH



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8	Dr. B. Prabhu	Assistant Professor / MECH
9	Mr. B. Balavairavan	Assistant Professor / MECH
10	Mr. N. R. Madhan	Assistant Professor / MECH
11	Mr. B. K. Parrthipan	Assistant Professor / MECH
12	Mr. S. Devaraj	Assistant Professor / MECH
13	Mr. M. Prithiviraj	Assistant Professor / MECH
14	Mr. T. Suresh	Assistant Professor / MECH
15	Mr. A.Sankara Narayana Murthy	Assistant Professor / MECH
16	Mr. K. Muruganathan	Assistant Professor / MECH
17	Mr. P. Senthamarai Kannan	Assistant Professor / MECH
18	Dr. S. Thanga Kasi Rajan	Assistant Professor / MECH UG Programme Coordinator



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**Minutes of Meeting – 2<sup>nd</sup> BoS – 7<sup>th</sup> May, 2021**

19	Mr. R. Sakthivel Murugan	Assistant Professor / MECH PG Programme Coordinator
20	Mr. S. David Blessley	Assistant Professor / MECH
21	Mr. L. Loganathan	Assistant Professor / MECH
22	Mr. S. Muthu Natarajan	Assistant Professor / MECH

**THE MINUTES:**

The meeting is called for considering the Undergraduate curriculum of B.E. Mechanical Engineering (III Semester to VIII Semester) and its syllabi & PG Syllabus Amendments.

**DISCUSSIONS:**

1. Dr. S. Senthil welcomed the gathering and the external experts.
2. Dr. S. Senthil gave a brief presentation about the action taken on the 1<sup>st</sup> BoS meeting and minutes of the 1<sup>st</sup> BoS meeting held on July 31, 2020. The members of the BoS approved the same.
3. Dr. S. Thanga Kasi Rajan presented the framework involved in designing the curriculum and syllabus. He also presented the proposed UG curriculum, Process in framing the curriculum and syllabus, syllabus framing sub-committee, common and audit courses





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## DEPARTMENT OF MECHANICAL ENGINEERING

### Minutes of Meeting – 2<sup>nd</sup> BoS – 7<sup>th</sup> May, 2021

and syllabus. Finally he presented the proposed curriculum and syllabus of Manufacturing stream / domain.

4. Er. B. Balavairavan presented the proposed UG curriculum for Design stream / domain
5. Dr. B. Prabhu presented the proposed UG curriculum for Thermal stream / domain
6. The Expert Members appreciated the way of organizing the presentation in a good manner. Dr. V. Anandkrishnan suggested that the discussion would be better more if we concentrate the subjects of 3<sup>rd</sup> and 4<sup>th</sup> semester alone instead of discussing the entire curriculum so that, the recent advancements if any could also be included in the near future. Dr. S.C. Vettivel also requested to keep some space for the latest trend to be incorporated.
7. Dr. A. Valan Arasu agreed with the points shared by Dr. V. Anandkrishnan. He suggests to provide year wise curriculum and syllabi approval so that their involvement in the syllabus framing could be more. Also, latest trends could be included in the upcoming semesters.
8. As per the recommendations, the 2<sup>nd</sup> year syllabus is presented in detail. The third year and final year B.E. Mechanical Engineering curriculum could be given as a proposed curriculum to the students of B.E. Mechanical Engineering.
9. The domain experts presented the respective individual courses of their domain in detail. The Course outcomes, Text books, and the syllabus content were discussed and analysed meticulously. Very few modifications and minor corrections were suggested by Dr. V. Valan arasu and Dr. V. Anandkrishnan.
10. Dr. V. Anandkrishnan suggested not to remove any topics from the referenced AU curriculum in the name of obsolete topic, instead it could be bracketed as basic problems, introductory level only, simple problems only etc.,



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## DEPARTMENT OF MECHANICAL ENGINEERING

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11. Dr. V. Ananda Krishnan also mentioned that, In ME1302, Manufacturing Technology - I, few topics are mentioned under “not for exam” that could be replaced as study purpose or introductory level
12. Dr. A. Valan arasu suggested that Couse outcome should be framed with a view that it should be measurable as it is essential for NBA, NAAC purposes. Hence appropriate key verbs should be preferred.
13. Dr. A. Valan arasu also mentioned that the course outcome and its knowledge level should also be printed in the QP scrutiny and curriculum so that the QP setter can understand at what knowledge level that the questions should be asked. Dr. S. Thanga Kasi Rajan assured that the same will be implemented in curriculum after getting approval from the Dean academic courses.
14. Dr. A. Valan arasu also suggested that instead of simply mentioning “Objectives and Outcomes” in syllabi, it could be mentioned as “Course Objectives and Course Outcomes”
15. Dr. V. Ananda Krishnan suggested that, In ME1404 - Strength of Materials course, the topics like conjugate beam and strain energy-Maxwell’s reciprocal theorem was removed. Instead of removing, it can be put under introductory level so that the students may not feel that they are missing few concepts when comparing with University syllabus.
16. In ME1301 - Thermodynamics subject, Dr. A. Valan Arasu suggested that the CO4 can be refined as “Determine/Analyze the performance of steam power plant by using rankine cycle and CO5 can also be refined in a similar manner.
17. In ME1306 - Fluid Mechanics and Machinery, Dr. V. Ananda Krishnan suggested that, In Course Objectives, the sentences “To understand the importance of .....” is repeated thrice and the same should be modified with suitable sentences. Dr. A. Valan arasu



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mentioned that CO1 and CO5 could be set to K3 levels and also suggested to change CO3.

18. In ME1405 - Thermal Engineering, Dr. A. Valan arasu requested to modify the course outcome to be more specific (like determine/evaluate the performance of .....)
19. Dr. S. Thanga Kasi Rajan expressed the suggestion given by the Mathematics BoS members on the subject MA1304 - Probability, Statistics and Numerical Methods that either the syllabus content should be reduced or credits for the subjects has to be increased. After the discussion, Dr. S. Senthil concluded to remove the unit 3 - Design of Experiments and could be offered as separate elective course. The BoS members approved the same. Dr. A. Valan arasu suggested to organize the contents of 4 units that could be distributed as 5 units equally. Hence 3 credits only given to the subject MA1304 - Probability, Statistics and Numerical Methods.
20. Dr. S. Thanga Kasi Rajan presented the common courses and the syllabi, Audit courses and the syllabi. The 2<sup>nd</sup> year common course syllabus and curriculum being discussed in detail.
21. For online courses, Dr, A.Valan arasu requested to include one member from thermal discipline in the committee. Dr. S.C.Vettivel also suggested to include industry persons in approving committee for online courses if possible.
22. The BoS members approved the three member committee for Value added courses and Industry Internship.
23. Er. B. K. Parrthipan, Presented the Performance of the students in the end semester examination Nov/Dec – 2020 (pass percentage, results of 2<sup>nd</sup>, 3<sup>rd</sup> and Final year courses).
24. Dr. S. Senthil presented the following PG curriculum amendment (M.E. Manufacturing Engineering).



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Sl . No	Page No.	Existing	Should be read as																																										
1	20	<p>In MF1112-MODELLING AND SIMULATION LABORATORY MODIFIED THE LIST OF EQUIPMENTS.</p> <p style="text-align: center;"><b>LIST OF EQUIPMENTS</b></p> <table border="1"> <thead> <tr> <th>S.NO</th> <th>EQUIPMENT</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Computer Server</td> <td>1</td> </tr> <tr> <td>2.</td> <td>Computer nodes or systems (High end CPU with atleast 2 GB main memory) networked to the server</td> <td>30</td> </tr> <tr> <td>3.</td> <td>Laser Printer</td> <td>1</td> </tr> <tr> <td>4.</td> <td>CNC Lathe</td> <td>1</td> </tr> <tr> <td>5.</td> <td>CNC milling machine</td> <td>1</td> </tr> <tr> <td colspan="2"><b>SOFTWARE</b></td> <td></td> </tr> </tbody> </table>	S.NO	EQUIPMENT	QUANTITY	1.	Computer Server	1	2.	Computer nodes or systems (High end CPU with atleast 2 GB main memory) networked to the server	30	3.	Laser Printer	1	4.	CNC Lathe	1	5.	CNC milling machine	1	<b>SOFTWARE</b>			<p>MF1112-MODELLING AND SIMULATION LABORATORY</p> <p style="text-align: center;"><b>LIST OF EQUIPMENTS</b></p> <table border="1"> <thead> <tr> <th>S.NO</th> <th>EQUIPMENT</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Computer Server</td> <td>1</td> </tr> <tr> <td>2.</td> <td>Computer nodes or systems (High end CPU with atleast 2 GB main memory) networked to the server</td> <td>15</td> </tr> <tr> <td>3.</td> <td>Laser Printer</td> <td>1</td> </tr> <tr> <td colspan="2"><b>SOFTWARE</b></td> <td></td> </tr> <tr> <td>4.</td> <td>3D CAD modeling software</td> <td>15 licenses</td> </tr> <tr> <td>5.</td> <td>Multibody Dynamic Software Suitable for Mechanism</td> <td>15 licenses</td> </tr> </tbody> </table>	S.NO	EQUIPMENT	QUANTITY	1.	Computer Server	1	2.	Computer nodes or systems (High end CPU with atleast 2 GB main memory) networked to the server	15	3.	Laser Printer	1	<b>SOFTWARE</b>			4.	3D CAD modeling software	15 licenses	5.	Multibody Dynamic Software Suitable for Mechanism	15 licenses
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		6.	Any High-end integrated modeling and manufacturing CAD / CAM software	15 licenses	simulation and analysis	
		6.	CAM Software for machining centre and turning centre (CNC Programming and tool path simulation for FANUC / Sinumeric and Heidenhain controller)	15 licenses	Licensed operating system	adequate
		8.	Licensed operating system	adequate		
		9.	Support for CAPP	adequate		
2	22	Subject Name correction MF1203 - CNC MACHINE AND METROLOGY			MF1203 - CNC AND METROLOGY	



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3	26	In MF1211- CNC AND METROLOGY LAB MODIFIED THE LIST OF EQUIPMENTS.																																														
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1.	CNC Trainer Lathe	1 no																																														
2.	CNC Trainer Milling Machine	1 no																																														
3.	Optical profile projector	1 no																																														
4.	Tool makers microscope	1 no																																														
5.	Measuring gauges for hole depth and height.	Adequate																																														
6.	Sine Bar	1 no																																														



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S.P.G.C.Nagar, K.Vellakulam - 625 701, (Near Virudhunagar), Madurai District.

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Minutes of Meeting – 2<sup>nd</sup> BoS – 7<sup>th</sup> May, 2021**

		8.	Measuring gauges for hole depth and height.		
		9.	Sine Bar	1 no	

The BoS members approved the same.

25. Dr. S. Senthil discussed about addition of new UG and PG programme in Department of Mechanical Engineering from the AICTE emerging areas. B.E. Robotics and Automation course can be introduced in the future. Similary for PG – Manufacturing Engineering course could be converted to M..E. Robotics subject to the approval.
26. The BoS members and our Alumni Er. Mayakannan appreciated the team work of all the faculty members.
27. The meeting ended up with Vote of Thanks proposed by Dr. S.S. Saravana Kumar.

Digitally signed  
by Dr.S.Senthil  
Date: 2021.05.24  
12:09:27 +05'30'

Dr.S.Senthil

HoD-Mech





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**DEPARTMENT OF CIVIL ENGINEERING**

**MINUTES OF THE 2<sup>nd</sup> BOARD OF STUDIES MEETING (ONLINE MODE)**

**2.00pm – 4.00pm - 07.05.2021**

**COMMITTEE MEMBERS**

Capacity	Name & Designation
Chairman of the Board of Civil Engineering	<b>Dr.P.Kathirvel, M.E, Ph.D.,</b> Head of the Department, Department of Civil Engineering, Kamaraj College of Engineering and Technology, Madurai -625 701
Anna University Nominee	<b>Dr.G.Chitra</b> Professor, Dept.of Civil Engineering, Thiagarajar College of Engineering, Madurai-625 015
Academic Council Nominee	<b>Dr. S.Jayalekshmi</b> Professor Department of Civil Engineering, NIT Trichy, Tamil Nadu - 620015
	<b>Dr. G. Janardhanan</b> Associate Professor, Center for Environmental Management,NITTTR, Taramani, Chennai - 600113.
Industrialist	<b>Er.L.Balaji,</b> International Professional Engineer & Registered Valuer , Balaji & Associates, Madurai -625016.
Alumni	<b>Mr. P. Karthick</b> Site Engineer, National Highways Authority of India, PIU Kancheepuram, Tambaram West.

**MEMBERS PRESENT:**

**Dr.R.Lakshmi, M.E, Ph.D.,**

Professor,

Department of Civil Engineering,

Kamaraj College of Engineering and Technology, Madurai.

**PG programme Co ordinator**

**Dr.S.P.Muralikannan,**

Assistant Professor, Department of Civil Engineering,

Kamaraj College of Engineering and Technology, Madurai.

**UG programme Co ordinator**



**Mr.P.Ponkarthikeyan,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Mr.N.Jegan Durai,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Mr.D.Velumani,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Mr.A.Krishnamoorthy,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Mr.M.Subahar,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Mr.P.Ganesh Prabhu,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Mrs.B.Deepa,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Dr.A.Karthick,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Mr.R.Ganesh,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Mrs.R.Sangeetha,**  
Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.  
**Member**

**Mr.K.Hariharan,**

Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.

**Member**

**Mrs.J.Vijaya Keerthana,**

Assistant Professor, Department of Civil Engineering,  
Kamaraj College of Engineering and Technology, Madurai.

**Member**

**DISCUSSIONS OF THE MEETING:**

1. The meeting started in online mode using MS Teams platform at 2.00 pm. Dr.R.Lakshmi, Prof./Civil, offered a warm welcome to all the members of the Board of Studies. Salient points about the institution and Department were presented. She presented the Approval of the minutes of the first Board of Studies meeting.

2. The proposed UG regulation was presented by Dr.S.P.Murali Kannan, UG Co-ordinator. He also presented and sought the approval of Three Member Committee and approval for List of Panel of External Experts

3. Dr.P.Kathirvel, Professor and Head in Civil Engineering presented the Report on Performance analysis of end semester examination.

4. Following suggestions given by Experts and Alumni member on UG Programme.

**i. Dr.G.Chitra suggested**

- a) to include the green building design open elective course as a professional elective to civil students.
- b) To include fly ash bricks in Unit-I, M sand in Unit-II and special concrete in unit III of CE1301 Construction material.
- c) To replace exercises instead of experiments in CE1311-Computer aided building drawing and include some details regarding exercises.
- d) To include bacterial concrete in CE1402-Concrete Technology.
- e) CE1403-Construction Techniques, Practices and Equipments, - syllabus is very vast and not able to complete within 45 hrs - can be revised and assignments for certain portions can be given.
- f) To include the test of cement in CE1505-Concrete and Highway Engineering (Theory cum Laboratory) and it can be cross verified with Syllabus of strength of Materials lab.
- g) CE1404- Soil Mechnaics – Theory portions can be introduced and then lab session can be carried out.
- h) CPS – should be given as compulsory elective and resource balancing and allocation, EVM topics can be added in Unit-II
- i) CE1635 - special concrete can be removed, instead - general causes and effects of failures of concrete structures and diagnosis of distress can be included
- j) DSS - cold formed steel concept and pre Engineering building concepts can be added
- k) Mentoring should be done for selecting NPTEL courses

- l) To visit [www.learner.bentley.com](http://www.learner.bentley.com) for online certificate course as Value added course

**ii. Dr.G.Janardhanan suggested**

- a) to revise the syllabus of open elective that should contain the contents related to that particular department.
- b) Subjects in Professional core and elective should not be selected as a NPTEL course
- c) To design a course based on IOT and electronic Instrumentation concept in Civil Engineering as open Elective to be offered for other departments.
- d) If 2 NPTEL courses are in the curriculum, one can be from core and the other may be from general like IPR, patent, research writing, etc.,
- e) L&T introduced a new course EDUTECH for next semester like project management - online course

**iii. Er.L.Balaji suggested**

- a) CPS - Cost benefit ratio can be added
- b) CE1635 - NDT can be added
- c) Construction materials - pavement tiles, Nano materials can be added and interlocking concept.

**iv. Dr.Jayalekshmi suggested**

- a) Alignment and Typological errors
- b) To include determination of pre consolidation pressure in Unit-III of Soil Mechanics and sheet pile and weir topic in Soil Mechanics can be moved to Foundation Engineering

**v. Er.Karthick suggested**

- a) to include “MX road” software in value added course - Bentley product

With a formal thanks note the meeting was concluded.



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**DEPARTMENT OF MECHATRONICS ENGINEERING**  
**Minutes of Meeting–BoS –07<sup>th</sup> May, 2021**

**MINUTES OF THE 2<sup>nd</sup> ONLINE MEETING**

**BOARD OF STUDIES OF MECHATRONICS ENGINEERING**

**DATE:** 07<sup>th</sup> May, 2021, Friday

**Time:** 11.00 AM –2.30 PM

**PLATFORM:** Microsoft Team

**Meeting Link:** <https://rb.gy/enn9rz>

**IN ATTENDANCE:**

S. No	Name of the Expert	Designation	Capacity
1	Dr. V. Santhanam	Dr. V. Santhanam, Professor & Head, Department of Mechatronics Engineering, Rajalakshmi Engineering College, Chennai - 602 105. <a href="mailto:santhanam.v@rajalakshmi.edu.in">santhanam.v@rajalakshmi.edu.in</a> Ph: 9840166401	<b>AU Nominee</b>
2	Dr. T. Asokan	Dr. T. Asokan, Professor & Head, Department of Engineering Design, Indian Institute of Technology Madras, Chennai – 600036 <a href="mailto:asok@iitm.ac.in">asok@iitm.ac.in</a> Ph: 22574707	Academic Council nominated BoS Members
3	Dr. N. Selvaraj	Dr. N. Selvaraj, Professor, Department of Mechanical Engineering, National Institute of Technology Warangal, Telangana-506004 <a href="mailto:selva@nitw.ac.in">selva@nitw.ac.in</a> Ph:9989231847	



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**DEPARTMENT OF MECHATRONICS ENGINEERING**  
**Minutes of Meeting–BoS –07<sup>th</sup> May, 2021**

4	Dr. N. Manivannan	Mr. N. Manivannan Managing Director, Techland Automation, 196 Dindigul main road, Tiruchirappalli – 620001. <a href="mailto:info@techland.in">info@techland.in</a> Ph:9994304608	Industrialist
5.	Dr. D. Kannadassan	Dr. D. Kannadasan, Associate Professor, Center for Nanotechnology Research, Vellore Institute of Technology, Vellore-600 014 <a href="mailto:dkannadasan@vit.ac.in">dkannadasan@vit.ac.in</a> Ph:91-9944055243	Alumni

<b>FACULTY OF MECHATRONICS ENGINEERING</b>	<b>MEMBERS</b>
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S. No	Name of the Faculty	Designation
1	Dr. K. Kannan	Associate Professor
2	Mr. G. Sakthivel	Assistant Professor
3	Mr. A. Arul Kumar	Assistant Professor
4	Mr. S. Kannappan	Assistant Professor
5	Mr. P. Balasundar	Assistant Professor
6	Mr. B. Aravind Kumar	Assistant Professor
7	Mr. A. Ganesan	Assistant Professor
8	Mr. S. Wesley Moses Samdoss	Assistant Professor



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**DEPARTMENT OF MECHATRONICS ENGINEERING**  
**Minutes of Meeting–BoS –07<sup>th</sup> May, 2021**

1. Dr. K. Kannan welcomed the gathering and introduced the external members to the faculty
2. Dr. K. Kannan presented the Vision and Mission statement of the Department.
3. Dr. K. Kannan presented the updated PEO & PSO of R2020 to get the approval of experts.
4. Dr. T. Asokan suggested to change the **Mechatronics system in to Mechatronics systems** in the PEO 1
5. Dr. N. Selvaraj & Dr. V. Santhanam said that the PEO & PSO are in correlation with the vision and mission statement of the department. All the experts are satisfied with the PEO & PSO statement and gave their approval.
6. Dr. K. Kannan presented the first BOS meeting minutes for getting the approval from experts which has been already sent through the mail to the experts on 24<sup>th</sup> August 2020. All the experts gave their approval.
7. Experts gave their approval through mail for the updated curriculum sent to them through mail on 16<sup>th</sup> September 2020.
8. Dr. N. Selvaraj enquired about Theory cum Laboratory course and he also asked whether all course code is verified
9. Dr. N. Selvaraj said that it is good decision taken to have Industrial project in 8<sup>th</sup> semester
10. Dr. T. Asokan enquired whether there is corresponding laboratory course for Power Electronics Drives subject in 5<sup>th</sup> semester. All the experts gave their approval for the proposed curriculum from I Semester to VIII Semester including Professional Electives, Open Electives and Audit Courses.
11. Dr. K. Kannan presented the guidelines for framing UG curriculum and also the process adopted for framing curriculum and syllabi.
12. Dr. K. Kannan presented the R2020 syllabus for core subjects in III to VIII semester to get the suggestion and approval from the experts.



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**DEPARTMENT OF MECHATRONICS ENGINEERING**

**Minutes of Meeting–BoS –07<sup>th</sup> May, 2021**

13. Dr. D. Kannadassan enquired whether there are any pre-requisites needed for Digital Electronics
14. Dr. D. Kannadassan suggested that circuit components are less in analog devices and circuits.
15. Dr. N. Selvaraj suggested including the text book “Strength of Materials by Timoshenko” for Solid Mechanics.
16. Dr. N. Selvaraj suggested changing the Basics of CNC into Introduction to CNC in Unit – III & including a topic comparison of conventional and unconventional machining in Unit – IV of Manufacturing Technology.
17. Dr. V. Santhanam suggested to add a topic on RasperryPI in Unit -III of Microprocessor and Microcontroller
18. Dr. N. Selvaraj suggested to add a topic on contact and non-contact sensor in Unit – I of Sensor and Instrumentation
19. Dr. N. Manivannan suggested to include wiring techniques and details about specifications and manufacturer of sensors in Sensor and Instrumentation
20. Dr. N. Manivannan suggested to add experiments related to temperature or pressure transmitter in Manufacturing Technology & Sensor Laboratory
21. Dr. D. Kannadassan suggested to include designing and testing software tools like “MULTISIM” in Manufacturing Technology & Sensor Laboratory
22. Dr. V. Santhanam suggested to add topic related to gear design in Design of Machine Elements. He also suggested revising the syllabus of Design of Machine Elements specific to our department with the inclusion of some relevant topics from Design of Transmission Systems.
23. Dr. N. Selvaraj suggested adding a topic related to Design of Miscellaneous components like Screw jack, Engine in Design of Machine Elements.
24. Dr. V. Santhanam suggested to remove Multi cylinder in line and V- Engine topic from Dynamics of Machines and asked to revise the syllabus specific to Mechatronics students.



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**DEPARTMENT OF MECHATRONICS ENGINEERING**  
**Minutes of Meeting–BoS –07<sup>th</sup> May, 2021**

25. Dr. T. Asokan suggested revising the syllabus of Design of Mechatronics system since it has more modelling related topics rather than design.
26. Dr. N. Selvaraj suggested to add a topics Introduction to Hydro-pneumatic system and Introduction to Fluidics in Unit IV of Fluid Power System
27. Dr. T. Asokan suggested to give more importance to circuit design and trouble shooting of circuits in Fluid Power System
28. Dr. N. Manivannan suggested to include details related to PLC manufacturer, case studies and addressing component of I/O in Industrial Automation
29. Dr. N. Selvaraj suggested to include a topic Introduction to Computer Aided Part Programming (APT) in Computer Aided Design and Manufacturing
30. Dr. N. Selvaraj suggested to include “Computer Control of Manufacturing Systems by Yoram Koren” as a reference book for Computer Aided Design and Manufacturing
31. Dr. T. Asokan suggested to remove the topics that are already learnt (Power Transmission) from Unit -I of Robotics and Machine vision.
32. Dr. N. Manivannan suggested to include Machine Vision controller details and to use computer open CV software in Robotics and Machine Vision System.
33. Dr. K. Kannan presented the Professional elective syllabus to get the suggestion and approval from the experts
34. Dr. V. Santhanam suggested including transformer and servomotor topic in Special Electrical Machine.
35. Dr. T. Asokan suggested to check the sentence framing in Unit – III of Autotronics and also to include the word sensor wherever necessary.
36. Dr. N. Manivannan suggested including topics related to AUTOSHARE and CAN tools in Autotronics.
37. Dr. N. Selvaraj suggested to include material handling system instead of AGV in Unit - IV of Computer Integrated Manufacturing.





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**DEPARTMENT OF MECHATRONICS ENGINEERING**  
**Minutes of Meeting–BoS –07<sup>th</sup> May, 2021**

38. Dr. T. Asokan conveyed that Computer Integrated Manufacturing syllabus is vast and he suggested removing the sub topics wherever possible.
39. Dr. N. Selvaraj suggested including topics difference between additive & subtractive manufacturing and drawbacks of subtractive manufacturing in Additive Manufacturing paper. He also suggested including a reference book related to CAD.
40. Dr. N. Selvaraj suggested including case studies from journal paper in Design of Experiments.
41. Dr. N. Selvaraj suggested including Introduction to Reliability in Maintenance Engineering.
42. Dr. N. Selvaraj suggested to include Introduction to FMC / FMS in Flexible Manufacturing System and he also suggested to include a text book “Fundamentals of FMS & FMC by William Jaken”
43. Dr. N. Manivannan suggested including all protocols in Embedded Systems Design.
44. Dr. N. Selvaraj suggested that it would be better to change Unit IV title in to Testing of Composite Materials in Composite Materials.
45. Dr. N. Selvaraj suggested to include “Assembly Automation and Product Design by Geoffrey Boothroyd” has a text book in Automation System Design.
46. Dr. V. Santhanam suggested to make revision in syllabus of Data Science for Business Decision
47. Dr. K. Kannan presented the Audit course syllabus to get the suggestion and approval from the experts.
48. Dr. N. Selvaraj suggested making change in title of Stress Management by Yoga as **Stress Reliving Management by Yoga.**
49. Dr. N. Selvaraj & Dr. N. Manivannan suggested that the syllabus of Sanga Tamil Literature Appreciation is vast and it cannot be given in five units.
50. Dr. N. Selvaraj suggested removing the hyperlink given the text and reference book given in some places.



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**DEPARTMENT OF MECHATRONICS ENGINEERING**  
**Minutes of Meeting–BoS –07<sup>th</sup> May, 2021**

51. Dr. K. Kannan presented the online course related details to get the suggestion and approval from the experts. All experts gave their approval.
52. Dr. V. Santhanam suggested to recommend the online courses which are not already studied by the students earlier.
53. Dr. K. Kannan presented the open elective course syllabus to get the suggestion and approval from the experts. Experts asked to revise the syllabus of Modeling and Simulation.
54. Dr. N. Selvaraj gave a general suggestion to follow same number of course objective & outcome for all courses throughout the syllabus and he also suggested to include minimum of two latest edition text book and four reference books
55. Dr. K. Kannan presented the details of three-member committee for Industry internship, Value added course and Online course to get the suggestion and got approval from the experts.
56. All the experts gave their approval for the details related to three-member committee presented by Dr. K. Kannan.
57. Dr. K. Kannan presented the list of external examiners for practical examination, subject expert and question paper setting & scrutiny expert to get the suggestion and approval from the experts.
58. All the experts gave their approval for the list of experts presented by Dr. K. Kannan.
59. Dr. K. Kannan presented the report on performance analysis of End semester examination conducted during the period of Dec 2020/ Jan 2021 to the experts
60. Dr. K. Kannan conveyed that our department has applied for NBA Accreditations and waiting for NBA committee visit.
61. Mr. A. Arul Kumar proposed the vote of thanks to all the external and internal experts and the meeting adjourned.



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**Minutes of Meeting —BoS–10<sup>th</sup> May, 2021**  
**MINUTES OF THE 2<sup>nd</sup> ONLINE MEETING**

**BOARD OF STUDIES OF U.G Program: B.Tech (Artificial Intelligence and Data Science)**

**DATE:** 10<sup>th</sup> May, 2021, Monday

**Time:** 11.00 AM – 12.30 PM

**PLATFORM:** Microsoft Teams

**Meeting Recording Link:** [https://kcetvnrorg-my.sharepoint.com/:v:/g/personal/ramyacse\\_kamarajengg\\_edu\\_in1/EWnR\\_U82pAhAosh7JORuIGMB3086SJNYPi1tHqjnZY4bRA?e=jzEx6V](https://kcetvnrorg-my.sharepoint.com/:v:/g/personal/ramyacse_kamarajengg_edu_in1/EWnR_U82pAhAosh7JORuIGMB3086SJNYPi1tHqjnZY4bRA?e=jzEx6V)

**IN ATTENDANCE:**

S.No	Name of the Expert	Designation	Capacity
1.	Dr.R.B.V.Subramaanyan, Professor and Head, Department of Computer Science and Engineering	National Institute of Technology, Warangal E-mail ID: rbvs66@nitw.ac.in Phone No: 9491346969	Academic Council nominated Bo- SExpert Member
2.	Mr.G.S.Raman, Director, Training Division	Sri Moogambikai Infotech Solu- tions, Madurai raman.g@mookambikainfo.com <a href="mailto:ramansriranga@gmail.com">ramansriranga@gmail.com</a> Phone No: 8870324388	Industrialist
3.	Dr.R.Venkatesan, Assistant professor, CSE	Karunya University, Coimbatore <a href="mailto:rivenkei2000@karunya.edu">rivenkei2000@karunya.edu</a> Phone No: 98948 80563	Alumni



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**Minutes of Meeting —BoS–10<sup>th</sup> May, 2021**

4.	Er.NanuSwamy	Founder of Sentinel Technologies, The Maxelerator Foundation, Robotech Center, Madurai <a href="mailto:nanunh@gmail.com">nanunh@gmail.com</a>	Special Invitee
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FACULTY OF COMPUTER SCIENCE AND ENGINEERING		MEMBERS
S.No	Name of the Faculty	Designation
1	<b>Dr.A.Meenakshi</b>	Associate Professor and Head
2	<b>Dr.M.IndraDevi</b>	Professor PG (M.E - CSE) Programme Co-ordinator
3	<b>Dr.R.Muthuselvi</b>	Professor
4	<b>Dr.A.Anandh</b>	Associate Professor / CSE UG (AI &DS) Programme Co-ordinator
5	<b>Dr.R.Ramya</b>	Assistant Professor / CSE UG (CSE) Programme Co-ordinator
6	<b>Mr.L.Prabakar</b>	Assistant Professor / CSE
7	<b>Dr.V.SuthaJebakumari</b>	Assistant Professor / CSE
8	<b>Mr.G.Srinivasan</b>	Assistant Professor / CSE
9	<b>Mr.B.Muthukrishnavinayagam</b>	Assistant Professor / CSE
10	<b>Ms.K.Muthulakshmi</b>	Assistant Professor / CSE
11	<b>Ms.P.Swathika</b>	Assistant Professor / CSE
12	<b>Ms.S.Janani</b>	Assistant Professor / CSE
13	<b>Ms.T.Maharajothi</b>	Assistant Professor / CSE
14	<b>Ms.G.Nirmala</b>	Assistant Professor / CSE



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**Minutes of Meeting —BoS–10<sup>th</sup> May, 2021**

15	<b>Mr.M.Rajasekaran</b>	Assistant Professor / General engg
16	<b>Ms.G.Vijayalalitha</b>	Assistant Professor / CSE
17	<b>Dr.P.Praveen Kumar</b>	Assistant Professor / AI & DS
18	<b>Ms.M.Kanimozhi</b>	Assistant Professor / AI & DS
19	<b>Ms.T.Rajashree</b>	Assistant Professor / AI & DS

**THE MINUTES:**

The meeting is called for considering the Undergraduate (B.Tech–AI & DS) curriculum & syllabi.

**DISCUSSIONS:**

1. Dr.A.Meenakshi, welcomed the gathering and introduced the external members . She presented the Vision,Mission, of the Department and also presented the PEO and PSO of the program, B.Tech(AI & DS).
2. Dr.A.Meenakshi discussed about the Minutes of the first BoS, the action taken and the ratification carried out in the curriculum and syllabi.
3. Dr.A.Meenakshi discussed about the Proceedings of 1<sup>st</sup> Academic Council Meeting held on 17th July 2020 to the experts. The highlights of the discussion were as follows:



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**Minutes of Meeting —BoS–10<sup>th</sup> May, 2021**

	<p><b>Recommendations from the Governing Body and Academic Council for Framing UG Curriculum(AI &amp; DS)</b></p>	<ol style="list-style-type: none"> <li>1. Credit range: 165 – 170</li> <li>2. 20 – 24 credit per Semester.</li> <li>3. VIII Sem Project Work: 8 – 10 credits</li> <li>4. Online Course (Maximum 6 credits)</li> <li>5. Audit Course (Mandatory non credit)</li> <li>6. First semester is common for all Programme</li> <li>7. First year credit range : 40 – 42</li> <li>8. Engineering Graphics to be in II Semester</li> <li>9. Programme specific papers could be offered in II Sem.</li> <li>10. AICTE &amp; AU 2019 curriculum could be taken as base for framing curriculum.</li> <li>11. III Sem Mathematics (Programme specific) Mandatory</li> </ol>
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**B.Tech (AI & DS) curriculum discussion:**

1. Dr.A.Meenakshi presented the B.Tech(AI & DS) curriculum.
2. Dr.R.B.V.Subramaanyan suggested to shift the subjects Fundamentals of Internet of Things with lab from Semester IV to Semester III and Database Management Systems with lab from Semester IV to Semester III.
3. Dr.R.B.V.Subramaanyan suggested to shift the subjects Machine learning from Semester V to Semester IV and Big data analytics from Semester IV to Semester V so that the student will get a better understanding on the core concepts.
4. Dr.R.B.V.Subramaanyan suggested to shift the subjects Reinforcement Learning and Mobile Application Laboratory from Semester VI to Semester VII and Data visualization with lab from Semester VII to Semester VI.
5. Dr.R.Venkatesan suggested to provide object oriented programming using C++ and Java Programming as combined syllabus.
6. Dr.R.B.V.Subramaanyan recommended to change the title of the Artificial Intelligence and Machine Learning as Principles of Artificial Intelligence and Machine Learning.(Open Elective II)



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S.P.G.C.Nagar, K.Vellakulam - 625 701, (Near Virudhunagar), Madurai District.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**Minutes of Meeting —BoS–10<sup>th</sup> May, 2021**

7. Er.NanuSwamy suggested to include NodeJS, NoSQL databases, distributed databases, distributed computing, Video analytics related courses. Dr.A.Meenakshi acknowledged that the topics NodeJS, ReactJS are already included in professional elective subject - Fullstack development.
8. Er.NanuSwamy and Mr.G.S.Raman suggested to include Serverless computing.
9. Dr.A.Meenakshi reported on three member committee of faculty members framed online courses, value added courses and internship. She also presented the panel of experts for staff selection and for Question Paper Scrutiny.
10. The updated syllabus , for the program specific papers in second semester, AD1201 – Foundations for data science and AD1211- Foundation for data science laboratory, was approved by the BOS members .
11. Finally the Board of Studies members approved the curriculum and detailed syllabi of B.Tech(AI & DS).
12. Dr.A.Anandh proposed the vote of thanks to all the external and internal members and the meeting adjourned.





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**DEPARTMENT OF ENGLISH**

**MINUTES OF THE SECOND ONLINE MEETING OF THE  
 BOARD OF STUDIES OF ENGLISH**

**DATE:** 10<sup>th</sup> May, 2021, Monday

**Time:** 10.00 am– 12.00 pm

**PLATFORM :** MICROSOFT TEAMS

**MeetingLink:**[https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_N2RhMGE1NjgtNWl2Yi00NThkLThkMWUtNjg0ODUxZjM0YWY4%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%2281547aae-21c0-447d-b960-ba784bab1bd3%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_N2RhMGE1NjgtNWl2Yi00NThkLThkMWUtNjg0ODUxZjM0YWY4%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%2281547aae-21c0-447d-b960-ba784bab1bd3%22%7d)

**IN ATTENDANCE:**

**EXTERNAL EXPERT MEMBERS**

S.No	Name of the Expert	Designation and Address	Capacity
1	Dr. A. Bhaskaran	Professor and Head, Department of Applied Physics, Head - Campus Safety and Security, Sri Venkateswara College of Engineering, Sriperumbudur - 602117	Overall Coordinator of First year Board
2	Dr.N.Hema	Associate Professor ,SRM Center for Applied Research in Education (SRM CARE) 1113, 11th Floor UB SRM Institute of Science and Technology Kaattankulathur Chengalpattu.	Anna University Nominee
3	Dr. Sathyaraj Venkatesan.	Associate Professor , Department of English, National Institute of Technology, Trichy.	Academic Council nominated BoS Member





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**DEPARTMENT OF ENGLISH**

4	Dr. G. Baskaran	Professor ,School of English and Foreign languages, The Gandhigram rural institute (Deemed to be university), Gandhigram.	Academic Council nominated BoS Member
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**INTERNAL EXPERT MEMBERS**

S.No	Name of the Faculty	Designation
1	Dr.N.Pratheeba	HoD-ENGLISH
2	Dr.N.Sundararajan	Associate Professor / ENGLISH
3	Mr.U.S.Ramaswamy	Associate Professor / ENGLISH
4	Dr.B.Kayalvizhi	Assistant Professor / ENGLISH
5	Mr.P.Vairamani	Assistant Professor / ENGLISH
6	Mr.S.Pradeepkumar	Assistant Professor / ENGLISH
	Dr.K.Geetha	First year coordinator

**MINUTES OF THE MEETING:**

The Second meeting of the Board of Studies-English was conducted on 10.05.2021 through online mode from 10.00 am to 12.00 pm. Dr. N.Sundararajan, welcomed all the expert members .

**DISCUSSIONS:**

1. Dr. N.Pratheeba HoD/English, introduced the Board of Studies members to the faculty.



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## DEPARTMENT OF ENGLISH

2. The Expert members approved the minutes of the first BOS-English meeting.
  
3. Mr. P. Vairamani presented the syllabus HS1321- Listening & Speaking.
  - a) Dr. Sathyaraj enquired about how the assessment was done while conducting classes through online mode. It was informed that assessment could be done through conducting GD, role play, recorded video.
  - b) Dr. G. Baskaran suggested that the books written by Indian authors may be given preference.
  
4. Mr. U. S. Ramaswamy presented the syllabus HS1421-Advanced Reading & Writing.
  - a) Dr. Sathyaraj suggested that the title may be altered to Reading and Writing-An introduction and self learning materials may be given to students.
  - b) He also suggested that letter of recommendation, vision and mission statement do not have immediate relevance.
  - b) Dr. Baskaran approved the statement of Dr. Sathyaraj and felt that the syllabus was overloaded. Units can be split for Reading and Writing exclusively.
  
5. Dr. B. Kayal vizhi presented the syllabus HS1521-Professional Communication.
  - a) Dr. Sathyaraj recommended to include CV writing and resume in this syllabus and error spotting can be moved to some other units as it is not relevant to unit V. Dr. Hema also approved his statement .
  
6. Mr. S. Pradeep kumar presented the syllabus HS1621-Verbal Reasoning & Aptitude.
  - a) All the expert members approved the syllabus
  
7. The syllabus for the audit and management courses was presented to the Board of Studies for further discussions by the Head, department of English.
  - a) Dr. Sathyaraj suggested that syllabus for audit course is overloaded. Topic, EQ can be added.
  - b) Dr. Hema suggested that in the syllabus of Constitution of India , topics like Right to information, Right to education can be included.
  - c) Dr. Baskaran also informed that this paper has been made mandatory in his college as per AICTE model curriculum. Further, Dr. Hema added that the paper constitution of India has been made mandatory.
  - d) She also suggested that Management systems can be focused in the syllabus-Sangam literature. Dr. Baskaran supported her statement.



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### DEPARTMENT OF ENGLISH

e)Dr.Hema suggested that the paper-Pedagogy studies can be given for PG students rather than UG students. She also stated that the title can be changed as Teaching and Learning. Dr.Sath-  
yaraj approved her statement.

f)The syllabi for the management courses were approved unanimously by the expert members.

8.The members approved the list of panel of external experts for question paper scrutiny &  
question paper setting and examination processes.

9. Mr.U.S.Ramaswamy proposed the Vote of Thanks.

Letter of consent:

**From:** Baskaran Gavarappan <argbaskaran@gmail.com>

**Sent:** Saturday, May 15, 2021 10:37:27 AM

**To:** HODENGLISH <hodenglish@kamarajengg.edu.in>

**Subject:** Re: Fw: Proposed syllabus for the English labs -KCET-2020 regulations.

Dear Professor Pratheba

Greetings from Gandhigram

Have gone through the content of the syllabus and found that you have carried out  
the suggestions and corrections. I approve the same and appreciate your efforts.

All the best,

---

**From:** Hema N <heman@srmist.edu.in>

**Sent:** Sunday, May 16, 2021 9:46 PM

**To:** HODENGLISH <hodenglish@kamarajengg.edu.in>

**Subject:** Re: Fw: Proposed syllabus for the English labs -KCET-2020 regulations.

Dear Madam,

I reviewed the content of the syllabus and observed that you had incorporated the  
suggestions and revisions.

I concur and thank you for your efforts.

Best wishes

Thanks and Regards

Hema.N

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**From:** SATHYARAJ VENKATESAN <sathyaiitk@gmail.com>

**Sent:** Saturday, May 15, 2021 9:30:28 AM

**To:** HODENGLISH <hodenglish@kamarajengg.edu.in>

**Cc:** Baskaran Gavarappan <argbaskaran@gmail.com>; Hema N <heman@srmist.edu.in>

**Subject:** Re: Fw: Proposed syllabus for the English labs -KCET-2020 regulations.

Dear Dr. Pratheeba:



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## DEPARTMENT OF ENGLISH

Thank you for your email. I read through the revised syllabi and I approve the same.  
Have a good day ahead.

Best,  
Dr. Sathyaraj Venkatesan.

Dr. Sathyaraj Venkatesan  
Associate Professor  
Office Room # 310 | Lyceum Building  
Department of Humanities and Social Sciences  
National Institute of Technology (NIT)  
Trichy, Tamil Nadu  
INDIA. PIN: 620 015.

Voice (M): 09894568617  
Voice (O): +91.431.2503699/+91.431.2503690

Homepage: <https://www.nitt.edu/home/academics/departments/humanities/faculty/sathyaraj/>  
Academia profile: <https://nitt.academia.edu/SathyarajVenkatesan>



**From:** Sundararajan.N <sundararajanenglish@kamarajengg.edu.in>  
**Sent:** Monday, May 17, 2021 11:39 AM  
**To:** HODENGLISH <hodenglish@kamarajengg.edu.in>  
**Subject:** Re: Proposed syllabus for the English labs -KCET-2020 regulations.

Dear madam  
I approve the syllabus attached.  
Thank you  
Yours  
N.Sundararajan



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## DEPARTMENT OF ENGLISH

Dr. N. Sundararajan,  
Associate professor,  
Department of English,  
Kamaraj college of Engineering and Technology,  
An Autonomous institution  
Madurai 625 701.  
Mobile: 94424 05326

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**From:** KAYAL VIZHI.B <kayalvizhienglish@kamarajengg.edu.in>  
**Sent:** Monday, May 17, 2021 11:17 AM  
**To:** HODENGLISH <hodenglish@kamarajengg.edu.in>  
**Subject:** Re: Proposed syllabus for the English labs -KCET-2020 regulations.

Dear mam  
I hereby approve the minutes of the meeting.  
Thank you

**From:** Ramasamy.S <ramasamyenglish@kamarajengg.edu.in>  
**Sent:** Tuesday, May 18, 2021 10:26 AM  
**To:** HODENGLISH <hodenglish@kamarajengg.edu.in>  
**Subject:** Acceptance mail

Dear madam  
I accept the mail sent by you which was discussed in our yesterday department meeting.  
Thank you

**From:** VAIRAMANI.P <vairamanienglish@kamarajengg.edu.in>  
**Sent:** Friday, May 21, 2021 6:35 PM  
**To:** HODENGLISH <hodenglish@kamarajengg.edu.in>  
**Subject:** Re: Fw: Proposed syllabus for the English labs -KCET-2020 regulations.

Dear Mam, I approve the syllabus which was discussed during the meeting.  
Thank you  
Yours  
P.Vairamani  
AP/English

**From:** PRADEEP KUMAR.S <pradeepkumarenglish@kamarajengg.edu.in>  
**Sent:** Tuesday, May 18, 2021 7:06 AM  
**To:** HODENGLISH <hodenglish@kamarajengg.edu.in>  
**Subject:** Re: Proposed syllabus for the English labs -KCET-2020 regulations.

Dear mam,



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**DEPARTMENT OF ENGLISH**

I approve the syllabus.

Thank you.

PRADEEP KUMAR S.  
Assistant professor of English  
Kamaraj College of Engineering and Technology  
K. Vellakulam.  
Mobile: 96 007 321 45

**DEPARTMENT OF MATHEMATICS**

**MINUTES OF THE Second BOARD OF STUDIES MEETING**

**DATE:** 6<sup>th</sup> May, 2021,  
 Thursday

**Time:** 10.30am –12.30pm

**PLATFORM:** MS TEAMS

**Meeting Link:** <https://teams.microsoft.com/l/meetup-join/19%3af79be682d7584427a8875380aed4637f%40thread.tacv2/1620118023237?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%226ea03437-c261-4dcf-bd9c-d6955b33bf00%22%7d>

**IN ATTENDANCE:**

S. No	Name of the Expert	Designation	Capacity
1	Dr. A. Bhaskaran	Professor and Head Department of Applied Physics, Head - Campus Safety and Security, Sri Venkateswara College of Engineering, Sriperumbudur - 602117	Overall Coordinator of First year Board
2	Dr. B. Thilaka	Professor, Department of Applied Mathematics Sri Venkateswara College of Engineering, Sriperumputhur.	Anna University Nominee
3	Dr. R. Asokan	Professor, Department of Mathematics, Madurai Kamaraj University, Madurai	Academic Council nominated BoS Members
4	Dr.V. Lakshmana Gomathi Nayagam	Associate Professor, Department of Mathematics, National Institute of Technology, Thiruchirapalli-15	

<b>FACULTY OF MATHEMATICS</b>	<b>MEMBERS</b>
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S. No	Name of the Faculty	Designation
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1	Dr. K. Thanalakshmi	HoD/MATHS
2	Dr. N. Kamatchi	Associate Professor/Maths
3	Dr. A. Maheswari	Associate Professor/Maths
4	Dr. A. Thamilsai	Assistant Professor / Maths
5	Dr. N. Mehala	Assistant Professor / Maths
6	Dr. S. Brindha	Assistant Professor / Maths
7	Mr. K. M. Sathiskumar	Assistant Professor / Maths
8	Mrs. M. Geetha	Assistant Professor / Maths
9	Mr. P. Pandiaraj	Assistant Professor / Maths
10	Mrs. C. Revathy	Assistant Professor / Maths
11	Mrs. K. Ananthi	Assistant Professor / Maths
12	Mrs. P. Mala	Assistant Professor / Maths
13	Mrs. S. Meenakshi	Assistant Professor / Maths
14	Mr. S. Gopinath	Assistant Professor / Maths

### **THE MINUTES:**

The second Board of Studies of the Department of Mathematics was conducted on 6.05.2021 online from 10.30 am – 12.30 pm. Dr. K. Thanalakshmi, Head/Department of Mathematics, welcomed all the members of BOS.

### **DISCUSSIONS:**

1. Dr. K. Thanalakshmi, Head/Department of Mathematics, explained the First Board of Studies' minutes for getting approval from the experts. Subsequently, the same was approved.
2. Dr. K.Thanalakshmi described the process for framing curriculum and syllabus of III and IV semester Mathematics papers/common courses through a flow chart.



3. Dr. K. Thanalakshmi, Head/Department of Mathematics, invited the department faculty members Mrs. S. Meenakshi, Mrs. M. Geetha and Dr. N. Mehala to present the proposed syllabus of III semester, IV semester and open elective mathematics papers respectively.
4. Mrs.S. Meenakshi AP/Maths, presented the proposed III semester syllabus for various departments.
5. When the syllabus for Linear algebra and partial differential equations was presented, Dr.V.Lakshmana Gomathi Nayagam enquired about the reference books, and he suggested that an equal number of reference books for all the courses may be provided. Other BoS members also agreed.
6. Dr.R. Asokan and other BoS members suggested that the lecture notes or web reference links may be provided.
7. When the syllabus for Statistics and Partial differential equations was presented, Dr.B. Thilaka, Anna University Nominee suggested the following:
  - i. Probability and Normal distribution are the base for statistics, to be included those topics as prerequisites.
  - ii. Statistics: Testing, Designing and quality control syllabus are all good. However, hands-on training using excel 2007 or 2010 may be given by showing the outcomes visually, which will create interest among students on subjects. In the future, while doing projects, they can relate and perform well.
  - iii. In testing of hypothesis syllabus, include the content Type I and Type II error.
8. When the syllabus for Probability, Statistics and Numerical methods was presented,
  - i. Dr.V. Lakshmana Gomathi Nayagam felt that the content of the syllabus in Probability, Statistics and Numerical methods is too heavy for a 3-credit paper. Also, he thought that the number of hours allotted for the paper is insufficient to complete the syllabus. So, he suggested that 4 credits may be given to the paper or else the content of the paper can be reduced.
  - ii. Finally, he objected this syllabus as a 3-credit paper. Also, he asked the opinion of other BoS members.
  - iii. Dr. B. Thilaka felt that the content of the syllabus was superb and needed at least 60 hours of teaching. She did not accept this course as a 3-credit paper. Also, she expressed that all the maths courses should be 4 credits. All the BoS members accepted it.
9. When the syllabus of Multi variate calculus and linear algebra, Transforms and linear algebra and Transforms and partial differential equations presented, BoS members accepted all the content and approved the same.
10. Mrs.M. Geetha, AP/Maths, presented the proposed IV semester syllabus for various departments.
11. BoS members approved the syllabus of Probability and Random processes, Numerical methods and Numerical methods and Probability.
12. When the syllabus of Statistics and Numerical methods was presented, BoS members suggested that content such as probability and normal distribution should be made prerequisites.

13. On presenting the syllabus of Probability and statistics, Dr. B. Thilaka, Anna University Nominee suggested that the topic Bayes theorem must be included. For Artificial intelligence and data science students, Bayesian concepts are very much helpful in solving problems on machine learning.
14. All BoS members appreciated the syllabus of even semester maths papers.
15. Dr.N. Mehala, AP/Maths, presented the syllabus for open elective courses offered to various departments.
16. When the syllabus of open elective courses such as Discrete and Algebraic structures, Fuzzy set and its applications, Lattices and Boolean algebra, Number theory and Numerical methods, Theory of equations and Numerical methods, Graph theory and its applications was presented, BoS members were satisfied and approved the syllabus.
17. When the syllabus of Queueing theory and Networks was presented, Dr. B. Thilaka, Anna University Nominee insisted as this paper is offered to Mechatronics Engineering students, who do not know the concepts of probability and random variables can be given as a prerequisite. Random processes are the basis for Markov Process that should be added in the first unit.
18. Dr.B. Thilaka, Anna University Nominee appreciated the syllabus of Statistics and Operation Research. However, for teaching the concepts of Operation Research, hands-on training using SOLVER tool in EXCEL will create enthusiasm and interest among the students.
19. Dr. K. Thanalakshmi, Head/Department of Mathematics, presented the list of experts for Staff selection / Faculty performance appraisal for getting approval. All the BoS members approved the list of experts for Staff selection / Faculty performance appraisal.
20. Dr. K. Thanalakshmi, Head/Department of Mathematics, presented the list of external experts for question paper Setting/Scrutiny/Evaluation to get approval. All the BoS members approved the list of examiners.
21. Dr.A. Bhaskaran, Anna University Nominee for representing Science and Humanities Department, suggested that a new edition of the prescribed books can be mentioned. He approved the syllabus and examiners list.
22. Dr.V. Lakshmana Gomathi Nayagam said that all the syllabus are framed nicely. Almost all syllabus prepared are good. One or two incompatibilities are there, make a correction and circulate to BoS members.
23. Dr. R. Asokan accepted all the points discussed.
24. Dr. N. Kamatchi, ASP/Maths, proposed the vote of thanks to all the external and internal expert members.



**Dr. A. BHASKARAN, PhD**

Prof and Head

Dept of Applied Physics

Sri Venkateswara College of Engg

Sriperumbudur 602117

## **Minutes & modified syllabus Approval by BoS members**

**THILAKA B AM <bthilaka@svce.ac.in>**

Tue 11-May-21 10:55

To: HODMATHS

Madam,

Approved. However, point 18 should read as "for teaching the concepts of OPERATIONS RESEARCH, hands-on training using SOLVER tool in EXCEL ----", since the SOLVER tool is for OR and OR is a special elective; for the special elective STATISTICS, I had asked for the repetition of the UNIT V to be addressed and this has been duly done.

Point 18 seems to convey that Statistics and Operations Research is a single subject and that is not the case.

Many thanks,

Thilaka

**BHASKARAN A AP <bhas@svce.ac.in>**

Mon 10-May-21 20:42

To: HODMATHS

Madam,

It's approved...

Do you want me to fix my electronic signature?

Regards,

Dr. A. Bhaskaran, PhD

**From: raghavan asokan <rasoka\_mku@yahoo.co.in>**

**Sent:** Wednesday, May 12, 2021 6:08:11 PM

**To:** HODMATHS <hodmaths@kamarajengg.edu.in>

**Subject:** Re: Minutes & modified syllabus

Dear madam,

I approve the minutes and modified syllabus for second BoS meeting.

**velulakshmanan@nitt.edu**

Thu 13-May-21 18:44

To: HODMATHS

Dear Madam,

Thanks for reminding me. The minutes of the meeting is approved.

Yours sincerely,

V.Lakshmana Gomathi Nayagam

**Maheswari.A <maheswarimaths@kamarajengg.edu.in>**

Wed 12-May-21 16:09

To: HODMATHS

Dear Mam

Good Evening, I approve the syllabus and minutes of second BOS meeting.

Thank you

**Gopinath.S**

Wed 12-May-21 16:04

Dear madam I approve both syllabus and minutes.

**Geetha.M**

Wed 12-May-21 15:43

Dear Madam I approve the syllabus and minutes. Thank you.

**Meenakshi.S**

Wed 12-May-21 13:42

Dear mam,

I have gone through the modified syllabus and minutes of second BoS meeting. I am approving it mam. 👍

With Regards S.MEENAKSHI AP/ Maths KCET.

**Ananthi.K <ananthimaths@kamarajengg.edu.in>**

Wed 12-May-21 14:47

To: HODMATHS

Dear mam,

I approve both syllabus and minutes of the meeting.

With Regards

K.Ananthi

AP/Maths

KCET

**Revathy.C <revathymaths@kamarajengg.edu.in>**

Wed 12-May-21 16:58

To: HODMATHS

Dear Mam,

I have gone through the final list of syllabus of maths paper and minutes of meeting. I am approving it

with regards,

C.Revathy, Ap/Maths

**Sathish Kumar.K.M <sathishkumarmaths@kamarajengg.edu.in>**

Wed 12-May-21 16:21

To: HODMATHS

Dear madam,

I approval the syllabus and minutes.

Thank you

**Pandiaraj.P <pandiarajmaths@kamarajengg.edu.in>**

Wed 12-May-21 19:44

To: HODMATHS

Dear Mam,

I approve syllabus and minutes.

**MEHALA.N <mehalamaths@kamarajengg.edu.in>**

Wed 12-May-21 18:44

To: HODMATHS

Respected Madam

This is for your kind information that, I approve the syllabus for III, IV semester papers and also elective papers for B.E., B.Tech., degree courses.

Thanks & Regards,

**Dr. N. Mehala**

Assistant Professor,

Department of Mathematics,

Kamaraj College of Engineering and Technology,

Virudhunagar, Tamil Nadu-626001

India.

Mbl: 9940915346

**THAMILISAI.A <thamilisaimaths@kamarajengg.edu.in>**

Wed 12-May-21 18:12

To: HODMATHS

Dear Mam,

I have approved the syllabus copy of III, IV and open elective Mathematics papers as well as the meeting minutes of second BOS meeting.

With regards,

Dr. A. Thamilisai.

**Brindha.S <brindhamaths@kamarajengg.edu.in>**

Wed 12-May-21 17:41

To: HODMATHS

Dear Madam,

I hereby give my approval for the Modified syllabus for higher semester.

**Mala.P <malamaths@kamarajengg.edu.in>**

Wed 12-May-21 17:26

To: HODMATHS

Dear mam,

I go through the minutes and syllabus. Also I approved the minutes and syllabus.

With regards,

P.Mala, AP / Maths

**Kamatchi.N <kamatchimaths@kamarajengg.edu.in>**

Wed 12-May-21 17:25

To: HODMATHS

Dear Madam,

I hereby give my approval for the II BOS minutes and Mathematics Syllabus for III semester, IV semester and open elective papers.

with Regards

N. Kamatchi



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S.P.G.Chidambara Nadar - C.Nagammal Campus

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**DEPARTMENT OF PHYSICS**  
**Minutes of Meeting –BoS–8<sup>th</sup> May 2021**

**MINUTES OF THE 2<sup>nd</sup> ONLINE MEETING**

**BOARD OF STUDIES OF PHYSICS**

**DATE:** 8<sup>th</sup> May, 2021, Saturday

**Time:** 2.00 PM –4.00 PM

**PLATFORM:** MICROSOFT TEAMS

**Meeting Link:** [https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_NWVhMTFhMmEtNTA5YS00NjdhLTg3NjltNWUyNmU5MDdmZGJk%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%2213ab5982-23d8-4355-b04c-a3d1cf484ca3%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NWVhMTFhMmEtNTA5YS00NjdhLTg3NjltNWUyNmU5MDdmZGJk%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%2213ab5982-23d8-4355-b04c-a3d1cf484ca3%22%7d)

**IN ATTENDANCE:**

S.No	Name of the Expert	Designation	Capacity
1	Dr. A. Bhaskaran	Professor and Head, Department of Applied Physics, Head - Campus Safety and Security, Sri Venkateswara College of Engineering, Sriperumbudur - 602117	Overall Coordinator of First-year Board
2	Dr.M.Mahendran	Professor and Head, Department of Physics Thiagarajar College of Engineering, Ma- durai Email: <a href="mailto:manickam-mahendran@tce.edu">manickam-mahendran@tce.edu</a> Phone: 04522482240	Anna Univer- sity Nominee



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3	Dr.J.Hemalatha	Professor and Head Department of Physics National Institute of Technology, Tiruchirappalli <a href="mailto:hemalatha@nitt.edu">hemalatha@nitt.edu</a> 0431-2503800 / 2503803	Academic Council nominated BoS Members
4	Dr.K.Jayakumar	Former Professor, Department of Physics, Gandhigram Rural Institute (Deemed to be University), Gandhigram, Dindigul <a href="mailto:Kjkumar_gri@rediffmail.com">Kjkumar_gri@rediffmail.com</a> 04512452371	

<b>FACULTY OF PHYSICS</b>	<b>MEMBERS</b>
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S.No	Name of the Faculty	Designation
1	Dr. A.Yelilarasi	Chairman / HoD-Physics
2	Dr. M.Hema	Associate Professor / Physics
3	Dr.K.Sakthiraj	Assistant Professor / Physics
4	Dr.M.Shanthi	Assistant Professor / Physics
5	Dr.G.Bharathy	Assistant Professor / Physics



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6	Dr.K.M.Manikandan	Assistant Professor / Physics
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### **THE MINUTES:**

The meeting is called for considering the Undergraduate Open elective syllabi, Approval of first BoS meeting minutes held on 7<sup>th</sup> August 2020 and Approval of list of experts for staff selection / Faculty performance appraisal and panel of external experts for question paper setting / Scrutiny / Valuation and practical Examinations

### **DISCUSSIONS:**

1. Dr.S.Luna Eunice, Assistant Professor, Department of Chemistry welcomed the gathering and board of studies members of Physics & Chemistry.
2. Dr.K.M.Manikandan, Assistant Professor / Physics present the Minutes of the meeting of first Board of Studies meeting held on 7<sup>th</sup> August 2020, for the approval of BoS members. BoS members approved the minutes of meeting held on 7<sup>th</sup> August 2020.
3. Dr.A.Yelilarasi, Head & Associate Professor, Department of Physics present the 2020 – 2021 ODD SEM – Pedagogy Information to the BoS members. Points discussed are: As per the government instruction, due to the COVID-19 pandemic situation, the first set of first-year Autonomous students (2020-21), classes are held through Microsoft Teams Platform by using PPT, Videos, and live demonstrations. The Cycle tests and semester exams are conducted through online using the Hire mee platform. The practical classes are held online mode by using demonstration videos by faculty members and live classes. In February 2021 offline classes are started for students. Hands-on training were given to students for practicals and a Model examination was also conducted for internal assessment in the lab course. The semester practicals are held through offline mode with the presence of internal, external faculty members.
4. Dr.A.Yelilarasi, Head & Associate Professor, Department of Physics presents the open elective syllabus – OPH151 Nanotechnology for Engineers for B.E/B.Tech., 5<sup>th</sup> semester UG students offered by Department of Physics for the approval of BoS members.





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5. Dr,S.Murugesan, Madurai Kamaraj University, Chemistry board BoS member give some suggestions regarding the modifications of the syllabus. In the first unit he suggested including PVD and CVD techniques along with other synthesis techniques. He also suggested including fullerene and graphene based nanomaterials with carbon nanotubes in Unit-II. He feels Unit-IV is heavy and suggested to revise it. Dr.A.Bhaskaran also accepts the suggestions given for Unit- I by Dr.S.Murugesan. He also suggested removing the word Elemental composition in Unit-IV.
  
6. Dr.M.Mahendran gives some suggestions regarding the syllabus. The points suggested are:
  - The syllabus discuss the nanomaterials and not about the nanotechnology except Unit-V. So, the title may be changed as Nanomaterials for engineers. In Unit-I the title may be changed to Basics of Nanomaterials or Synthesis of Nanomaterials instead of Introduction to nanotechnology. Include some more preparation techniques in Unit-I.
  - He feels that the second unit deals with the nanocomposites not with core-shell nanoparticles.
  - In unit-III carbon nanotubes some basic introductory aspects like what is carbon? fullerene, graphene may be included. The title of Unit-III may be changed as carbon based nanomaterials or Carbon-based materials on a small scale. In the final part it is generally mentioned as applications, he suggested, specifically mentioning one or two applications of carbon nanotubes.
  - Mention specific title not the general term like nanosensors in Unit-V, mention Specifically any two nanosensors. He suggested some books for Nanomaterials. He will send the list of books later.
  
7. Dr.K.Jayakumar suggested that the best book for nanomaterial is the book written by Dutta. In unit-V he suggested including Semiconductor nanostructure-based Transistors.
  
8. Dr.J.Hemalatha suggested that the title may be changed as Nanoscience & Technology. She suggested including some introductory aspects of Nano like Nanoscale, Nanomaterials, surface effects of nanomaterials, Quantum confinement, Physical properties of nanomaterials in Unit –I.

In the synthesis technique, the vapour phase deposition must be specific either physical or chemical vapour deposition. She suggested to include some physical vapour deposition techniques like sputtering, electrospinning. Keep either sol-gel process or solvothermal technique. She feels Unit-II focused only



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on core-shell nanoparticles, there are very efficient nanomaterials are available, include them in the syllabus and change the course title as Nanomaterials. She suggested including quantum dots in Unit-V Nanodevices.

9. Dr.A.Yelilarasi, Head & Associate Professor, Department of Physics presents a list of experts for staff selection / Faculty performance appraisal and list of panel of external experts for question paper setting / Scrutiny / Valuation and practical Examinations for approval.
10. Dr.M.Mahendran suggested including some expert members from IIT's. He suggested arranging the list of expert members in order based on seniority or designation. He also suggested that the questions set by the expert members must be audited.
11. Dr.M.Hema. Associate Professor / Physics proposed the vote of thanks to all the external and internal experts of the Physics and Chemistry board. The meeting adjourned.

A handwritten signature in blue ink that reads 'A. Bhaskaran'.

**Dr. A. BHASKARAN, PhD**

Prof and Head  
Dept of Applied Physics  
Sri Venkateswara College of Engg  
Sriperumbudur 602117

A handwritten signature in black ink that reads 'Dr. A. Yelilarasi'.

**Dr.A.Yelilarasi**

HOD/PHYSICS



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## MINUTES OF THE 2<sup>nd</sup> ONLINE MEETING BOARD OF STUDIES OF CHEMISTRY

**DATE:** 8<sup>th</sup> May, 2021, Saturday

**Time:** 2.00 PM – 3.30 PM

**PLATFORM :** Microsoft Teams meet

**Meeting Link:** [https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_NWVhMTFhMmEtNTA5S00NjdhLTg3NjltNWUyNmU5MDdmZGJk%40thread.v2/0?context=%7b%22id%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22oid%22%3a%2213ab5982-23d8-4355-b04c-a3d1cf484ca3%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NWVhMTFhMmEtNTA5S00NjdhLTg3NjltNWUyNmU5MDdmZGJk%40thread.v2/0?context=%7b%22id%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22oid%22%3a%2213ab5982-23d8-4355-b04c-a3d1cf484ca3%22%7d)

### IN ATTENDANCE:

### EXTERNAL EXPERT MEMBERS

S.No	Name of the Expert	Designation and Address	Capacity
1	Dr. A. Bhaskaran	Professor and Head, Department of Applied Physics, Head - Campus Safety and Security, Sri Venkateswara College of Engineering, Sriperumbudur - 602117	Overall Coordinator of First year Board
2	Dr. G. Devasagayam,	Professor & Head Department of Applied Chemistry Sri Venkateswara College of Engineering, Pennalur, SriPerumbudur	Anna University Nominee
3	Dr. R. Karvembu	Professor Department of Chemistry National Institute of Technology Trichy-620 015	Academic Council nominated BoS Members
4	Dr. S. Murugesan	Professor and Head Department of Inorganic chemistry School of Chemistry Madurai Kamaraj University, Madurai	

## **INTERNAL EXPERT MEMBERS**

<b>S.No</b>	<b>Name of the Faculty</b>	<b>Designation</b>
1	Dr. T. Dhanalakshmi	HoD-CHEMISTRY
2	Dr. S. Luna Eunice	Assistant Professor / CHEMISTRY
3	Dr. J. Dhanalakshmi	Assistant Professor / CHEMISTRY
4	Dr. S. Shamim Rishwana	Assistant Professor / CHEMISTRY
5	Mr. A. R. Sivakumar	Assistant Professor / CHEMISTRY
6	Mr. N. Sivakumar	Assistant Professor / CHEMISTRY

## **MINUTES OF THE MEETING:**

The Second Board of Studies of the Physics and Chemistry was conducted on 08.05.2021 through online mode at 2.00 PM – 3.30 PM. Dr. S. Luna Eunice, Assistant Professor, Department of Chemistry, welcomed all the expert members. The minutes of the first board of studies meeting was presented by Mr. N. Sivakumar, Assistant Professor, Department of Chemistry for approval by the members and they approved the same.

## **DISCUSSIONS:**

1. Dr. T. Dhanalakshmi, HoD/chemistry, presented the list of courses to be offered by the Chemistry department as Open Elective Course for Semester V. The syllabus for the courses was presented to the Board of Studies for further discussions.
2. The syllabus for OCY151 – Green Chemistry for Engineers was presented. In the first unit, Prof. S. Murugesan suggested that contents like some common industrial processes, their drawbacks, need for green chemistry may be included. Also, the members suggested that the title of the course may be modified as Green Chemical Technologies or Green chemical methods. Finally, all the members accepted the syllabus.
3. The syllabus for OCY152 – Analytical Chemistry was presented.
  - a) Prof. S. Murugesan suggested that the title of the course may be changed. He suggested that advanced analytical techniques like X-ray diffraction, MRI, NMR imaging and CT Scan may be included. He also suggested that second unit can be modified since they are outdated techniques.
  - b) Prof. R. Karvembu suggested that basics of spectroscopy can be included before discussion of molecular spectroscopy. He also suggested to include atomic absorption and atomic emission spectroscopy as it will be useful for the civil students to do soil analysis etc.

- c) In unit IV, Prof. R. Karvembu opined that Woodward fisher rule can be specified or restricted to some compounds and some applications may be included in Unit IV
- d) Prof. R. Karvembu also suggested that simple books like Chatwal and Anand for instrumental analysis may be given as reference book.
- e) All the members suggested that the title of the course may be changed to Instrumental Methods of Analysis.

The meeting ended with the vote of thanks by Dr. Hema, Associate Professor  
Department of Physics.