
**Minutes of the 45th Meeting of the Academic Council
of
Coimbatore Institute of Technology - Coimbatore - 641 014**

**DATE : 18-03-2023
TIME : 10.35 a.m.**

MEMBERS :

- | | | |
|----|---|--------------------------------------|
| 1. | Dr.A. Rajeswari
Principal | Chairperson |
| 2. | Dr. V. Krishnaveni
Professor and Head
Dept. of Electronics and Communication Engineering
PSG College of Technology
Coimbatore - 641 004 | University Nominee |
| 3. | Dr. A.M. Kalpana
Professor and Head
Dept. of Computer Science and Engineering
Government College of Engineering
Salem - 636 011 | University Nominee |
| 4. | Dr.K.V.Radha
Professor and Head
Department of Chemical Engineering
ACT Campus
Anna University, Chennai 600 025 | University Nominee |
| 5. | Dr. R. Rudramoorthy
Director, PSG Centre for Academic
Research and Excellence
G-201, PSG College of Technology,
Coimbatore- 641004 | Governing Body Nominee
(Academic) |
| 6. | Dr. K. Manonmani
Principal
Government College of Technology
Coimbatore 641 0137. | Governing Body Nominee
(Academic) |
| 7. | Dr. D. Sathia Narayanan
Scientist F, Deep sea Technologies
National Institute of Ocean Technology
Pallikaranai, Chennai 600 100 | Governing Body Nominee
(Industry) |

8.	Er. B.L. Subramanian, Senior Engineer Design and Development (Automotive Steering) BOSCG Global Software Technologies (P) Ltd., 32 GP + 7WF, Global Techpark Kalapatti, Coimbatore 641 048.	Governing Body Nominee (Industry)
9.	Dr.K.M. Succendran Global Head, TCS Chennai	Governing Body Nominee (Industry)
10.	Dr.V.M.Shanthi Principal Government College of Engineering Srirangam	DTE Nominee
11.	Dr.V.G. Srisanthi HOD - Civil Engineering	Member
12.	Dr. N. Rajam Ramaswamy HOD (i/c) - Mechanical Engineering	Member
13.	Dr. S. Vasantharathna HOD - Electrical and Electronics Engineering	Member
14.	Dr. S.Uma Maheswari HOD -Electronics Communication Engineering	Member
15.	Dr.G.Kousalya HOD- Computer Science and Engineering	Member
16.	Dr.M. Thirumarimurugan HOD - Chemical Engg.	Member
17.	Dr.N.K. Karthikeyan HOD - Information Technology	Member
18.	Dr. S. Valliappan Raman HOD - Artificial Intelligence and Data Science	Member
19.	Dr. R. Sathyanarayan Sridhar Controller of Examinations Professor - Civil Engineering	Member / Convener
20.	Dr. A. Kavithamani Deputy Controller of Examinations Associate Professor - EEE	Member

21.	Dr. K. Ganesamoorthy Deputy Controller of Examinations Assistant Professor – Mathematics	Member
22.	Dr.N. Nagaveni HOD - Mathematics	Member
23.	Dr.N. Muthukumarasamy HOD – Physics & Dean - R & D and Industry Collaboration	Member
24.	Dr.E.P. Subramaniam HOD - Chemistry	Member
25.	Dr.P. Santhi HOD – Humanities	Member
26.	Dr. K. Sakthimala HOD – Software Systems & Dean – Computing	Member
27.	Dr.S. Suganthi HOD – Data Science	Member
28.	Dr.A. Kannammal HOD – Decision and Computing Sciences	Member
29.	Dr. J. Shana HOD -in-charge Artificial Intelligence and Machine Learning	Member
30.	Dr. R.S. Somasundaram HOD – MCA	Member
31.	Dr. M.Senthil HOD -Master of Business Administration	Member
32.	Dr. A.Kunthavai Professor – CSE	Member
33.	Dr.Suja Professor- EEE	Member
34.	Dr. M. Mandhirasalam Librarian & Dean – Academic & Research resource assistance	Member
35.	Dr.R. Sampath Physical Director	Member

36.	Dr.G.Suresh Kannan Professor – Mechanical Engineering	Member
37.	Dr.D.Prabhakaran Professor - Chemical Engineering	Member
38.	Dr.R.Lavanya Assistant Professor – Mathematics	Member
39.	Dr.R. Maheswari Assistant Professor – Humanities	Member

The following members expressed their inability to attend the meeting due to preoccupation.

Dr. K. Manonmani
Principal
Government College of Technology
Coimbatore 641 0137

Governing Body Nominee
(Academic)

Dr.K.M. Succendran
Global Head, TCS
Chennai

Governing Body Nominee
(Industry)

Dr.V.G. Srisanthi
HOD – Civil Engineering

Member

Dr.R. Sampath
Physical Director

Member

ITEM NO: 45.1

To inform the Members of the Academic Council about the following communications received from Anna University, Chennai & AICTE, New Delhi.

- (i) Academic Council of Anna University decided to introduce Uniform Evaluation Method of Students based on Relative Grading for all the UG/PG students who have joined from the academic year 2021-2022 onwards, vide Letter No. 4041/AU/CAC/Rel. Grading 2022 dated 25-06-2022.
[Passed as an Item No:80.1(i) in the 80th Standing Committee Meeting held on 26.07.2022]
- (ii) Instructions for Processing the Result by Result Passing Board of Autonomous Colleges Affiliated to Anna University for the Students admitted from the Academic Year 2021 – 2022.
[Passed as an Item No:80.1(ii) in the 80th Standing Committee Meeting held on 26.07.2022]

- (iii) Anna University offers an EEC category Mandatory Elective course entitled "Professional Readiness for Innovation, Employability and Entrepreneurship" with 3 credits for B.E. ECE, CSE, B.Tech. IT Programmes in the VII Semester, vide Letter No.3769/AU/CAC/2022 dated 03-06-2022. [Passed as an Item No:80.1(iii) in the 80th Standing Committee Meeting held on 26.07.2022]
- (iv) Provisional affiliation for the existing courses/new courses/variation in intake in the existing courses with sanctioned strength for U.G./P.G. programme for the academic year 2022-2023 has been granted vide Lr.No.02/AFFLN/CA1/CBE/AU/2022-23/7176 dated 12-08-2022. [Passed as an Item No:81.1(i) in the 81st Standing Committee Meeting held on 07.09.2022]
- (v) Anna University Uniform Evaluation Method of Students based on Relative Grading for all the UG / PG students from the academic year 2021 – 2022 onwards vide Lr.No.5883/AU/CAC/Rel. Grading 2022 dated 26-09-2022. [Passed as an Item No:82.1(i) in the 82nd Standing Committee Meeting held on 29.12.2022]
- (vi) Anna University – Award of UG (Hons) with Specialisation, UG with Minor and UG (Hons) from the academic year 2021 – 2022 onwards vide Letter No.5749/AU/CAC/Honours/2022 dated 16-11-2022. [Passed as an Item No:82.1(ii) in the 82nd Standing Committee Meeting held on 29.12.2022]
- (vii) University Nominees for Academic Council, and Board of Studies for UG and PG courses of our Institute, Vide Lr. No. 5600/AU/CAC/2022 dated 02-12-2022. [Passed as an Item No:82.1(iii) in the 82nd Standing Committee Meeting held on 29.12.2022]
- (viii) Dr.K. Ravichandran, Professor, Dept. of Rubber & Plastics Technology, MIT, Chrompet, Chennai is nominated as University Representative and member of the Result Passing Board for Coimbatore Institute of Technology Vide Anna University Lr.No.COE/PA/2022 dated 22-12-2022. [Passed as an Item No:82.1(iv) in the 82nd Standing Committee Meeting held on 29.12.2022]
- (ix) AICTE Extension of Approval letter 2022 – 23 vide letter no : F.No. Southern/1 – 10970547239/2022/E) A, Dated 07-07-2022 for the change of nomenclature.

ITEM NO : 45.2 To inform the Members of the Academic Council about the following nominations of members for various committees/boards by the Chairman, Board of Management.

Name of the Boards	Experts Details	
Academic Council	Dr. R. Rudramoorthy Director, PSG Centre for Academic Research and Excellence G-201, PSG College of Technology, Coimbatore – 641 004	Governing Body Nominee (Academic)
Academic Council	Dr. K. Manonmani Principal, Government College of Technology Coimbatore – 641 013.	Governing Body Nominee (Academic)

Academic Council	Dr. D. Sathia Narayanan Scientist F, Deep Sea Technologies National Institute of Ocean Technology Pallikaranai, Chennai – 600 100	Governing Body Nominee (Industry)
Academic Council	Er. B.L. Subramanian, Senior engineer, Design and Development (Automotive Sensing) BOSCH Global Software Technologies (P) Ltd., 32 GP +7WF Global Techpark, Kalapatti, Coimbatore- 641 048	Governing Body Nominee (Industry)
Academic Council	Dr. K.M. Suceendran, Global Head, TCS Chennai.	Governing Body Nominee (Industry)
Result Passing Board	Dr.S.Rajaram Professor & Head, Department of ECE Thiagarajar College of Engineering, Madurai - 625 015	Governing Body Nominee (Academic)
Result Passing Board	Er. Sridharan Sathyanarayanan General Manager, Head IT, Bosch Engg. Solutions, Coimbatore	Governing Body Nominee (Industry)

ITEM NO : 45.3

The Standing committee recommended and **Dr. R. Sathyanarayan Sridhar** moved that the results passed and the decisions taken in the following meetings of the Result Passing Boards be approved and ratified.

MEETING NUMBER	MEETING DATE
162	12 th April 2022
163	13 th June 2022
164	07 th September 2022
165	21 st September 2022
166	08 th December 2022
167	10 th March 2023

Dr. A. Kavithamani seconded the move.

The move was put to vote and carried.

ITEM NO : 45.4

The Standing Committee recommended and **Dr. A.Rajeswari** moved that the students of all B.E. / B.Tech. /MCA and MBA Programmes will be permitted to undertake self-study courses if they secured internship provided they have CGPA not less than 7.0 with no standing arrears be approved.

Dr. R. Sathyanarayan Sridhar seconded the move.

The move was put to vote and carried.

ITEM NO : 45.5

The Standing Committee recommended and **Dr. A.Rajeswari** moved that the implementation of Uniform Evaluation Pattern for the students admitted from 2021 and onwards, as directed by Anna University vide letters No. 4041/AU/CAC/Rel.Grading 2022 dated 25-06-2022 & No.5883/AU/CAC/Rel. Grading 2022 dated 26-09-2022 be ratified.

Dr. R. Sathyanarayan Sridhar seconded the move.

The move was put to vote and carried.

ITEM NO : 45.6

The Standing Committee recommended and **Dr. A.Rajeswari** moved that the implementation of Classifications of the Degree

- B.E. / B.Tech. (Honours) in the same discipline
- B.E. / B.Tech. Minor in other specialization and
- B.E. / B. Tech. (Honours).

for the students admitted from 2021 and onwards of all B.E./B.Tech., programmes, as directed by Anna University vide letters No. Letter No.5749/AU/CAC/Honours/2022 dated 16-11-2022 be ratified.

Dr. R. Sathyanarayan Sridhar seconded the move.

The move was put to vote and carried.

ITEM NO : 45.7

The Standing Committee recommended and **Dr. A.Rajeswari** moved that the new regulations(2021) for the students admitted from the year 2021 and onwards be ratified.

Dr. R. Sathyanarayan Sridhar seconded the move.

The move was put to vote and carried.

ITEM NO : 45.8

The Standing Committee recommended and **Dr. R. Sathyanarayan Sridhar** moved that the following changes in the Question Paper format for the End Semester examinations of the students admitted from 2021-22 and onwards be ratified.

1. End Semester Examination will be conducted for three hours duration with maximum mark of 100 (For both UG and PG).
2. UG question paper format consists of three parts

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- (i) Part A - 10 questions with no choice. Each question carries 2 marks. (Two questions from each Unit)
 - (ii) Part B - 5 questions with either or choice. Each question carries 13 marks. (One question from each Unit)
 - (iii) Part C - 1 Question with either or choice carrying 15 marks (from any of the Units)
 - (iv) Part B and Part C consist of two/three sub division with marks not less than 4 for the sub divisions.
 - (v) Part A and Part B questions should be of Lower order (LO) cognitive level and Intermediate Order (IO) cognitive level as per revised Bloom's taxonomy.
 - (vi) Part C questions should be of Higher Order (HO) cognitive level.
3. PG Question paper format is as follows :
- (i) Existing pattern consists of 5 questions each carries 20 marks, continues with following changes.
 - (ii) Each question should have two/three sub-divisions with marks not less than 5 for the sub divisions.
 - (iii) Three questions should be of Intermediate order (IO) cognitive level and two questions should be of Higher Order (HO) cognitive level as per the revised Bloom's Taxonomy.
 - (iv) In case of theoretical, analysis and design type questions, structured questions are recommended to enhance the learning capability of the students.

Dr. A. Kavithamani seconded the move.

The move was put to vote and carried.

ITEM NO : 45.9

The Standing Committee recommended and **Dr. R. Sathyanarayan Sridhar** moved that the inclusion of the following elective course "19ECI01 Professional Readiness for Innovation, Employability and Entrepreneurship" with 3 credits for **B.E. ECE, CSE, B.Tech. IT Programmes** under 2019 regulation in VII Semester as recommended by the Centre for Academic Courses, Anna University, Chennai be ratified.

Dr. A. Kavithamani seconded the move.

The move was put to vote and carried.

ITEM NO : 45.10

The Standing Committee recommended and **Dr. R. Sathyanarayan Sridhar** moved that award of the letter grades for the marks scored by the students who have passed the NPTEL, SWAYAM, etc. courses, it is resolved to adopt the scheme given below which has been notified in the notification issued by Anna University, Letter No.363/AU/CAC/SA- Online/2021/ dated 06-02-2021 regarding the clarification on the Evaluation of NPTEL Courses be approved.

Marks	Letter Grade
88- 100	O
76 - 87	A+
64 - 75	A
52 - 63	B+
40 - 51	B

Dr. A. Kavithamani seconded the move.

The move was put to vote and carried.

ITEM NO : 45.11

The Standing Committee and the Board of Studies - **Civil Engineering** recommended and **Dr.R. Sathyanarayan Sridhar** moved that the Nomenclature of the Programme M.E. Environmental Engineering and Management may be changed as M.E. Environmental Engineering. In this regard a proposal for change in Nomenclature of the Programme M.E. Environmental Engineering and Management as M.E. Environmental Engineering has been sent to Anna University for obtaining it's No Objection. This process of change in Nomenclature along with the Curriculum and syllabi for the proposed M.E. Environmental Engineering Programme be approved.

Dr. A. Kavithamani seconded the move.

The move was put to vote and carried.

ITEM NO : 45.12

The Standing Committee and Board of studies- **Mechanical Engineering** recommended, and **Dr. N.Rajam Ramasamy** moved that the inclusion of the following Professional Electives for the students of **B.E Mechanical Engineering** under 2019 regulations be approved.

Professional Electives:

- 19MEE44 Fundamentals of Automotive Systems
- 19MEE45 Product Design and Manufacturing
- 19MEE46 The Joy of Computing using Python
- 19MEE47 Introduction to Aerospace Engineering - Flight
- 19MEE48 Work System Design
- 19MEE49 Classical Sociological Theory
- 19MEE50 Industrial Safety Engineering
- 19MEE51 Data Structure and Algorithms using JAVA

Dr. G.Suresh Kannan seconded the move.

The move was put to vote and carried.

ITEM NO : 45.13

The Standing Committee and Board of studies- **Mechanical Engineering** recommended and **Dr. N.Rajam Ramasamy** moved that the inclusion of the following Professional Electives & Special Electives for the students of **M.E Advanced Manufacturing Technology** under 2019 regulations be approved.

NPTEL Courses as Professional Electives:

- 19MMAE39** Metal Additive manufacturing
- 19MMAE40** Techniques of Materials Characterization

Dr. G.Suresh Kannan seconded the move

The move was put to vote and carried

ITEM NO : 45.14

The Standing Committee and Board of studies- **Electrical and Electronics Engineering** recommended and **Dr. S. Vasantharathna** moved that the inclusion of the following New Electives, NPTEL Courses and One credit courses for the students of **BE Electrical and Electronics Engineering** under 2019 regulations be approved.

New Elective:

19EEE44. Principle of Operating Systems

One Credit Courses:

- 19EEOC20** Cyber security Essentials
- 19EEOC21** Networking Basics
- 19EEOC22** Product Management Foundation, extended Microsoft 365
- 19EEOC23** Fundamentals of Data Analytics
- 19EEOC24** Run High performance computing (HPC) application on Azure
- 19EEOC25** Python Programming
- 19EEOC26** Digital 101
- 19EEOC27** Java (Beginners)

Dr. S.Suja seconded the move

The move was put to vote and carried

ITEM NO : 45.15

The Standing Committee and Board of studies - **Electrical and Electronics Engineering** and recommended and **Dr. S. Vasantharathna** moved that the inclusion of the following One Credit Courses conducted by NASSCOM through AICTE future skills for the students of **BE Electrical and Electronics Engineering** under 2019 regulations be approved.

19EEOC15	Basics of Inventory Management and Basics of Sales Order Management in Supply Chain Management
19EEOC16	FPGA based motor control using LABVIEW
19EEOC17	Cisco NetAcad - Introduction to Cyber security
19EEOC18	Python Fundamentals
19EEOC19	Machine Learning - Linear Regression

Dr. S.Suja seconded the move.

The move was put to vote and carried.

ITEM NO : 45.16

The Standing Committee and Board of studies - **Electrical and Electronics Engineering** recommended and Dr. S. Vasantharathna moved that the inclusion of the following New Elective in **M.E. Embedded and Real Time Systems** under 2019 Regulations be approved.

19MAE04 Smart Systems

Dr. S.Suja seconded the move.

The move was put to vote and carried.

ITEM NO : 45.17

The Standing Committee and Board of studies - **Electronics and Communication Engineering** recommended and Dr. S. Uma Maheswari moved that the inclusion of the following elective course offered for the students of **M.E. Communication Engineering** under 2019 regulations be approved.

- 19MECE53 Communication Networks**
- 19MECE54 Computer Vision and Image Processing - Fundamentals and Applications**
- 19MECE55 Digital Image Processing**
- 19MECE56 Mathematical Aspects of Biomedical Electronics System Design**

Dr. K.Ganesammorthy seconded the move.

The move was put to vote and carried.

ITEM NO : 45.18

The Standing Committee and Board of studies – **Electronics and Communication Engineering** recommended and **Dr. S. Uma Maheswari** moved that the inclusion of the following elective course offered for the students of **B.E. Electronics and Communication Engineering** under 2019 regulations be approved.

19ECE54 Foundation skills for integrated product development

Dr. K.Ganesammorthy seconded the move.

The move was put to vote and carried.

ITEM NO : 45.19

The Standing Committee and Board of studies – **Computer Science and Engineering** recommended and **Dr. G. Kousalya** moved that the inclusion of the following NPTEL Course for the students of **M.E. Computer Science and Engineering** under 2019 regulations be approved.

NPTEL Courses as Professional Electives:

- 19MCSE31** Introduction to Industry 4.0 and Industrial Internet of Things
- 19MCSE32** Cyber Security Tools Techniques Counter Measures

Dr. A.Kunthavai seconded the move.

The move was put to vote and carried.

ITEM NO : 45.20

The Standing Committee recommended and **Dr. M.Thirumarimurugan** moved that the break of study of R. Harshavarthan, (Reg.No : 7176 21 06 015) B.Tech. Chemical Engineering II(s) (2021 batch) be approved.

Dr. D.Prabhakaran seconded the move.

The move was put to vote and carried.

ITEM NO : 45.21

The Standing Committee and Board of studies – **Computing** recommended and **Dr. K.Sakthimala** moved that the Regulations for M.Sc. Software Systems degree programme for the students admitted during 2020 – 2021 be ratified.

Dr. S.Suganthi seconded the move.

The move was put to vote and carried.

ITEM NO : 45.22

The Standing Committee and Board of studies – **Computing** recommended and **Dr. K.Sakthimala** moved that the regulations for M.Sc. Software Systems degree programme for the students admitted during 2021 and onwards be ratified.

Dr. S.Suganthi seconded the move.

The move was put to vote and carried.

ITEM NO : 45.23

The Standing Committee recommended and **Dr. K.Sakthimala** moved that the break of study availed by Akkshat.S.P.M. (Reg.No : 7176 21 31 005) M.Sc. Software Systems II(s) (2021 batch) be approved.

Dr. S.Suganthi seconded the move.

The move was put to vote and carried.

ITEM NO : 45.24

The Standing Committee and Board of studies – **Computing** recommended and **Dr. S.Suganthi** moved that the Third to Sixth Semester Curriculum and Syllabi for the students of M.Sc. Data Science degree programme admitted during 2021 – 2022 and subsequently, be approved.

Dr. K.Sakthimala seconded the move.

The move was put to vote and carried.

ITEM NO : 45.25

The Standing Committee recommended and **Dr. A.Kannammal** moved that the following admission criteria for Five year Integrated **M.Sc. Decision and Computing Sciences** degree programme students during 2022-2023 and subsequently, be approved.

A Pass in H. Sc. /equivalent exam with Mathematics, Physics and Chemistry as the subjects of study.

(or)

A Pass in H.Sc./equivalent exam with one subject from Category A and 2 subjects from Category B as the subjects of Study.

Category A : Mathematics , Applied Mathematics, Statistics, Business Mathematics, Business Mathematics and Statistics.

Category B : Commerce, Economics, Accountancy, Computer Science.

Dr. J.Shana seconded the move.

The move was put to vote and carried.

ITEM NO : 45.26

The Standing Committee and Board of studies- **Computing** recommended and **Dr. A.Kannammal** moved that the Revision of First and Second Semester Curriculum and Syllabi for the students of M.Sc. Decision and Computing Sciences degree programme admitted during 2022-2023 and subsequently, be approved.

Dr. J.Shana seconded the move.

The move was put to vote and carried.

ITEM NO : 45.27

The Standing Committee and Board of studies - **Computing** recommended and **Dr. A.Kannammal** moved that the inclusion of the following elective course offered for the students of M.Sc. Decision and Computing Sciences under 2015 regulations for the students of M.Sc. Decision and Computing Sciences degree programme admitted during 2019 - 2020 to 2021-2022 be approved

17MDCE52 - Advanced Machine Learning

Dr. J.Shana seconded the move

The move was put to vote and carried.

ITEM NO : 45.28

The Standing Committee recommended and **Dr. J.Shana** moved that the Regulations for M.Sc. Artificial Intelligence and Machine Learning degree programme for the students admitted during 2019-20 be ratified.

Dr. A.Kannammal seconded the move.

The move was put to vote and carried.

ITEM NO : 45.29

The Standing Committee recommended and **Dr. J.Shana** moved that the Regulations for M.Sc. Artificial Intelligence and Machine Learning degree programme for the students admitted during 2021 and onwards be ratified.

Dr. A.Kannammal seconded the move.

The move was put to vote and carried.

ITEM NO : 45.30

The Standing Committee and Board of studies - **Computing** recommended and **Dr. J.Shana** moved that the inclusion of the following One Credit Course offered for the students of M.Sc. Artificial Intelligence and Machine Learning degree programme, admitted during 2019 – 2020 and subsequently be approved.

19MAMOC02 - Java Programming

Dr. A.Kannammal seconded the move.

The move was put to vote and carried.

ITEM NO : 45.31

The Standing Committee and Board of studies - **Management Studies** recommended and **Dr. M.Senthil** moved that the inclusion of the following new Elective courses in MBA programme for the students admitted from 2022 – 23 and subsequently be approved.

21MBAE66 - B2B & B2C Sales and Marketing

21MBAE67 - Talent Acquisition and Management

21MBAE68 - Logistics and Supply Chain Management

Dr. R.S.Somasundaram seconded the move.

The move was put to vote and carried.

ITEM NO : 45.32

The Research Board and Standing Committee recommended and **Dr. N.Nagaveni** moved that the inclusion of the following new Electives courses for Ph.D Course Work for the research scholars admitted during 2021-2022 and subsequently be approved.

19SHMH01 Digital Topology

19SHMH02 Fuzzy Sets and Neutrosophic Sets

Dr. R.Lavanya seconded the move.

The move was put to vote and carried.

ITEM NO : 45.33

The Research Board and Standing Committee recommended and **Dr. N.Muthukumarasamy** moved that the inclusion of the following new Electives courses for Ph.D Course Work for the research scholars admitted during 2021-2022 and subsequently be approved

19SHPH01 Hydrogen Energy & Fuel cells

Dr. E.P. Subramanian seconded the move
The move was put to vote and carried

ITEM NO : 45.34

The Research Board and the Standing Committee recommended and **Dr. E.P.Subramanian** moved the inclusion of the following new Electives courses for Ph.D Course Work for the research scholars admitted during 2021-2022 and subsequently be approved

19SHCH01 Biomaterials for Medical Applications

Dr. N.Muthukumarasamy seconded the move
The move was put to vote and carried

ITEM NO : 45.35

The Standing Committee recommended and **Dr. A. Rajeswari** moved that the AQAR uploaded in the NAAC portal for 2020-21 and 2021-22 be ratified.

Dr. R. Sathyanarayan Sridhar seconded the move
The move was put to vote and carried

ITEM NO : 45.36

The Standing Committee recommended and **Dr. R. Sathyanarayan Sridhar** moved that the recommendations of the Attendance Monitoring Committee to redo the courses for the following students of B.E., B.Tech., M.Sc., M.B.A. due to shortage of attendance in respective Courses to be approved

Sl. No.	Programme	Sem.	Reg.No.	Name	Course
1.	B.E. Civil Engg	II	717621-01-013	GOKUL R	19MEL12
2.	B.E. Civil Engg	II	717621-01-028	NIRMALKUMARS	19FYEL21
3.	B.E. Civil Engg	IV	19-01-086	NISHANTH R	19HOL41
4.	B.E. Civil Engg	IV	20-01-005	GOKUL KRISHNA B	19CE41, 44, 45
5.	B.E. Civil Engg	IV	20-01-009	HARISHANTH V	19CF44, 46
6.	B.E. Civil Engg	IV	717621-01-201	ABISHEK P	19HDI 41

7.	B.E. Civil Engg	IV	717621 01 213	ISMATH THOUFEEK P R	19HOC41
8.	B.E. Civil Engg	IV	717621 01 215	KAVIN BINEKAS S	19HOC41
9.	B.E. Civil Engg	VI	18 01 042	SATHYAPRAKASH.	19CEL65, 19HOC61
10.	B.E. Civil Engg	VI	19 01 016	GOVINDH VIGNESH	19CEL65
11.	B.E. Civil Engg	VI	19 01 036	MOHANESWARAN.	19CEL65
12.	B.E. Civil Engg	VI	19 01 054	THIRUMALAIVAAS	19CEL65
13.	B.E. Civil Engg	VI	19 01 063	ELAYARAMJL.M.S.	19CEE01
14.	B.E. Civil Engg	VI	19 01 107	TECHI LOMIN.	19CEE01
15.	B.E. Civil Engg	VI	20 01 207	SURYA PRASANNA	19INT61
16.	B.E.Mech Engg	II	717621 02 091	PRAANESH.K.	19FYE21
17.	B.E.Mech Engg	IV	20 02 102	VINESH R	19ME41
18.	B.E.EEE	IV	20 03 058	DINESH E	19EEL47; 19EEL48; 19HOC41
19.	B.E.EEE	VI	19 03 082	JASWANTH.S.	19EEL64
20.	B.E.CSE	II	717621 05 068	BHUVAN SHANKAR.S.	19FYE21;19FYEL21
21.	B.E.CSE	II	717621 05 070	DHARSAN.S.M.	19FYE21;19FYEL21
22.	B.E.CSE	IV	20 05 014	HARI KRISHNA A	19HOC41
23.	B.E.CSE	IV	20 05 036	PRANAVAKUMAR S	19CI45; HOC41
24.	B.E.CSE	IV	20 05 052	UMEED MANGSATABAM	19CI0C04;19CIL47; 19HOC41
25.	B.E.CSE	IV	20 05 065	BHARATH C	19HOC41
26.	B.E.CSE	IV	20 05 070	GOWRISHANKAR R	19HOC41
27.	B.E.CSE	IV	20 05 074	JOBI TAO	19CIL47
28.	B.E.CSE	IV	20 05 088	PRANESH M	19HOC41
29.	B.E.CSE	VI	19 05 028	VL.MALSAWMTLUANGA	19CS62, 19HOC61, 19CI0C05
30.	B.TECH.CHEM	IV	20 06 008	DINESHKUMAR R	19CHL48; 19CHOC24
31.	B.TECH.IT	IV	20 07 031	MANJU SRI O	19HOC41
32.	B.TECH.IT	IV	20 07 032	MATHALAI KHISHAN S	19HOC41
33.	B.TECH.AIDS	II	717621 08 029	NITHINRAAJA.S.	21MEL21
34.	M.SC.DS	VI	19 32 021	MADHAV VENKATESH.S.	16MDS63
35.	M.SC.DCS	VI	19 33 029	SIVASAKTHI.G.	17MDC62; 17MDC63; 17MDC64
36.	M.SC.DCS	VIII	18 33 004	ASHOK ARVIND.T.N.	17MDC84; 16MDS94
37.	M.SC.AIML	II	717621 34 053	SWETHA.N.	19MAMLE01; 19MAM21; 19FYEL21
38.	M.SC.AIML	VI	19 34 005	CHEZHIAN.T.N.	19MAM68
39.	M.B.A	II	717621 52 016	JEBIN JEEVANESAN.R.	21MBA24
40.	M.B.A	II	717621 52 020	MOUNA PRABHAM.	21MBA24
41.	M.B.A	II	717621 52 034	SANJEEV.S.	21MBA24

19CEL65 QUANTITY SURVEYING AND PROJECT PLANNING LABORATORY
 19CEE01 DESIGN OF CONCRETE STRUCTURES
 19INT61 INTERNSHIP - II
 19HOC61 EMPLOYABILITY AND PERSONALITY DEVELOPMENT SKILLS-II
 19MEL12 ENGINEERING PRACTICES LABORATORY
 19FYEL21 ENGLISH FOR EMPLOYABILITY
 19CE41 CONSTRUCTION TECHNOLOGY
 19CE44 APPLIED HYDRAULICS AND HYDRAULIC MACHINERY
 19CE45 WASTE WATER ENGINEERING
 19HOC41 COMMUNICATION SKILLS FOR ENGINEERS II
 19FYE21 PROFESSIONAL ENGLISH
 19ME41 APPLIED THERMODYNAMICS
 19EEL47 AC ROTATING MACHINES LAB.
 19EEL48 LINEAR INTEGRATED CIRCUITS LAB.
 19HOC41 COMMUNICATION SKILLS FOR ENGINEERS II
 19EEL64 POWER ELECTRONICS LAB
 19FYE21 PROFESSIONAL ENGLISH
 19FYEL21 ENGLISH FOR EMPLOYABILITY
 19CI45 SOFTWARE ENGINEERING
 19CIL47 DATA STRUCTURES AND ALGORITHMS LAB.
 19CIOC04 USER INTERFACE DESIGN
 19HOC41 COMMUNICATION SKILLS FOR ENGINEERS II
 19CS62 MACHINE LEARNING
 19HOC61 EMPLOYABILITY AND PERSONALITY DEVELOPMENT SKILLS-II
 19CIOC05 OPEN-SOURCE TOOLS FOR NETWORK ANALYSIS
 19CHL48 TECHNICAL ANALYSIS LABORATORY
 19CHOC24 NANO-POLYMERS-SYNTHESIS CHARACTERIZATION AND APPLICATIONS
 19HOC41 COMMUNICATION SKILLS FOR ENGINEERS II
 21MEL21 ENGINEERING GRAPHICS
 16MDS63 DATA MINING
 17MDC62 COMPUTATIONAL INTELLIGENCE
 17MDC63 MOBILE AND CLOUD COMPUTING
 17MDC64 DATA WAREHOUSING AND MINING
 17MDC84 BUSINESS INTELLIGENCE LABORATORY
 16MDS94 DEEP LEARNING LABORATORY
 19MAMLE01 PROFESSIONAL ENGLISH
 19MAM21 APPLIED CALCULUS
 19FYEL21 ENGLISH FOR EMPLOYABILITY
 19MAM68 COMMUNICATION SKILLS
 21MBA24 OPERATIONS MANAGEMENT

Dr. A. Kavithamani seconded the move.

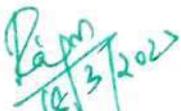
The move was put to vote and carried.

ITEM NO : 45.37

The Standing Committee recommended and **Dr. R. Sathyanarayan Sridhar** moved that the recommendations of the Attendance Monitoring Committee for the following students of B.E./B.Tech/B.E(Part Time)/M.E. Programmes to undergo readmission, due to shortage of attendance as per prevailing norms.

Sl. No.	REG.NO.	NAME	SEM.	BRANCH
1	20 01 030	PAI NAVEN	IV	B.E. CIVIL
2	20 01 031	PRAVEENKUMAR E	IV	B.E. CIVIL
3	20 01 039	SUJITH PRASANNA J	IV	B.E. CIVIL
4	7176 21 01 204	DHANABALAJI M R	IV	B.E. CIVIL
5	7176 21 01 209	GUNASEKARAN M	IV	B.E. CIVIL
6	7176 21 01 211	HARISH M	IV	B.E. CIVIL
7	7176 21 01 219	NIKKATH NAZINEEN S	IV	B.E. CIVIL
8	20 01 204	KARUNYA S	VI	B.E. CIVIL
9	20 02 067	GOUTHAM R A	IV	B.E. MECH
10	20 02 094	SHRIDHARSHAN D	IV	B.E. MECH
11	20 03 014	HARIHARAN B	IV	B.E. EEE
12	7176 21 03 217	ROSHAN J	IV	B.E. EEE
13	20 05 021	JEREMY LALRINAWMA	IV	B.E. CSE
14	20 06 003	ABRAHAM KENT RENGMA	IV	B.Tech. CH
15	7176 21 06 202	BALAKUMAR S	IV	B.Tech. CH
16	19 06 013	DIETHOSIELIE SUOKHRIE.	VI	B.Tech. CH
17	19 06 018	IMSULONG PONGEN	VI	B.Tech. CH
18	19 06 042	SACHIN.N.G.	VI	B.Tech. CH
19	19 06 052	SUBOTEMSU LONGCHAR.	VI	B.Tech. CH
20	20 101 01	ARUN PANDIAN M	IV	B.E.(P.T.) CIVIL
21	20 101 15	RANGASAMY P	IV	B.E.(P.T.) CIVIL
22	20 101 22	VIGNESH P	IV	B.E.(P.T.) CIVIL
23	18 101 04	BHARANITHARAN.K.	VI	B.E.(P.T.) CIVIL
24	18 101 16	NAVANEETHA KRISHNAN.S.	VI	B.E.(P.T.) CIVIL
25	18 101 32	VETRIVEL.V.S.	VI	B.E.(P.T.) CIVIL
26	18 101 34	VIGNESH.S.	VI	B.E.(P.T.) CIVIL
27	19 101 03	BALAJI.R.	VI	B.E.(P.T.) CIVIL
28	19 101 08	GAYATHRI.B.	VI	B.E.(P.T.) CIVIL
29	19 101 15	MURALI.L.	VI	B.E.(P.T.) CIVIL
30	19 101 17	PRABATH.M.	VI	B.E.(P.T.) CIVIL
31	19 101 19	RAGU RAMAN.N.	VI	B.E.(P.T.) CIVIL
32	19 101 23	SELVAMANIK.	VI	B.E.(P.T.) CIVIL
33	19 101 27	SHEIK MOHAMMED.M. PEER	VI	B.E.(P.T.) CIVIL
34	19 101 29	SOUNDAR RAJAN.M.	VI	B.E.(P.T.) CIVIL
35	19 101 34	VASANTHAKUMAR.B.	VI	B.E.(P.T.) CIVIL
36	19 101 36	VIGNESH.E.	VI	B.E.(P.T.) CIVIL
37	20 102 14	FAREETHBABU A	IV	B.E.(P.T.) MECH
38	20 102 32	MURALI SANKAR R	IV	B.E.(P.T.) MECH

39	20 102 51	SELVAKUMAR R	IV	B.E.(P.T.) MECH
40	20 102 52	SUDHARSAN I	IV	B.E.(P.T.) MECH
41	20 102 56	SURYA R	IV	B.E.(P.T.) MECH
42	19 102 15	KATHIRVEL.M.	VI	B.E.(P.T.) MECH
43	19 102 23	MONISH RAM.A.	VI	B.E.(P.T.) MECH
44	19 102 49	SUJITH.J.K.	VI	B.E.(P.T.) MECH
45	19 102 54	VIGNESH.S.	VI	B.E.(P.T.) MECH
46	19 102 57	VINOTH.R.	VI	B.E.(P.T.) MECH
47	20 103 10	RAGUPATHI M	IV	B.E.(P.T.) EEE
48	20 103 15	SELVAPANDI M	IV	B.E.(P.T.) EEE
49	20 103 16	SENTHIL BRABU M	IV	B.E.(P.T.) EEE
50	20 103 19	SUBRAMANIAN K	IV	B.E.(P.T.) EEE
51	19 103 01	ARUMUGANAINAR.B.	VI	B.E.(P.T.) EEE
52	19 103 05	DURGADEVI.K.	VI	B.E.(P.T.) EEE
53	19 103 22	SURJITH.R.	VI	B.E.(P.T.) EEE
54	717621 69 006	PRABHU.N.	I	ME. CONS.

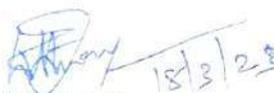

Dr. A. Rajeswari,
Principal & Chairperson


Dr. V. Krishnaveni
Professor and Head
Dept. of Electronics and
Communication Engineering
PSG College of Technology
Coimbatore - 641 004


Dr. A.M. Kalpana
Professor and Head
Dept. of Computer Science and
Engineering
Government College of
Engineering
Salem - 636 011


Dr. K.V. Radha
Professor and Head
Department of Chemical
Engineering
ACT Campus
Anna University, Chennai
600 025


Dr. R. Rudramoorthy
Director, PSG Centre for
Academic
Research and Excellence
G-201, PSG College of
Technology,
Coimbatore- 641004


Dr. D. Sathia Narayanan
Scientist F, Deep sea
Technologies
National Institute of Ocean
Technology
Pallikaranai, Chennai 600 100

Er. B.L. Subramanian,
Senior Engineer
Design and Development
(Automotive Steering)
BOSCG Global Software
Technologies (P) Ltd.,
32 GP + 7WF, Global
Techpark
Kalapatti, Coimbatore 641
048

18/3/2023

Dr. V.M. Shanthi
Principal
Government College of
Engineering
Srirangam, Trichy-620012

Dr. N. Rijam Ramaswamy
HOD (i/c) - Mechanical
Engineering

18/3/2023

Dr. S. Vasantharathna
HOD - Electrical and
Electronics Engineering

18/3/23

Dr. S. Uma Maheswari
HOD - Electronics
Communication Engineering

18/3/2023

Dr. G. Kousalya
HOD - Department of Computer
Science and Engineering

18/3/2023

Dr. M. Thirumarimurugan
HOD - Chemical Engineering

18/3/2023

Dr. N. K. Karthikeyan
HOD - Information
Technology

Dr. S. Valliappan Raman
HOD - Artificial Intelligence and
Data Science

18/3/2023

Dr. R. Sathyanarayan Sridhar
Controller of Examinations
Professor - Civil Engineering

18/3/2023

Dr. A. Kavithamani
Deputy Controller of
Examinations
Associate Professor - EEE

18/3/2023

Dr. K. Ganesamoorthy
Deputy Controller of
Examinations
Assistant Professor -
Mathematics

18/3/2023

Dr. N. Nagaveni
HOD - Mathematics

18/3/2023

Dr. N. Muthukumarasamy
HOD - Physics & Dean - R &
D and Industry Collaboration

18/3/2023

Dr. E.P. Subramanian,
HOD-Chemistry


Dr.P.Santhi,
HOD - Humanities


Dr.K.Sakthimala,
HOD - Software Systems &
Dean - Computing

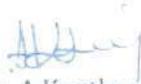

Dr.S.Suganthi,
HOD - Data Science


Dr.A. Kannammal,
HOD - Decision and Computing
Sciences

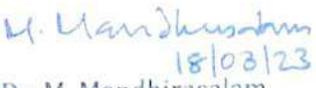

Dr. J.Shana
HOD -in-charge
Artificial Intelligence and
Machine Learning


Dr.R.S. Somasundaram
HOD - MCA


Dr. M.Senthil,
HOD - MBA


Dr. A.Kunthavai
Professor - CSE

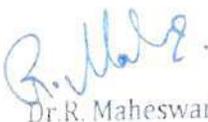

Dr.S. Suja
Professor- EEE


Dr. M. Mandhirasalam
Librarian & Dean -
Academic & Research
resource assistance


Dr.G.Suresh Kannan
Associate Professor -
Mechanical Engineering


Dr.D.Prabhakaran
Professor - Chemical
Engineering


Dr.R.Lavanya
Assistant Professor -
Mathematics


Dr.R. Maheswari
Assistant Professor -
Humanities

ITEM NO : 45.22

The Standing Committee and Board of studies – **Computing** recommended and **Dr. K.Sakthimala** moved that the regulations for M.Sc. Software Systems degree programme for the students admitted during 2021 and onwards be ratified.

Dr. S.Suganthi seconded the move.

The move was put to vote and carried.

ITEM NO : 45.23

The Standing Committee recommended and **Dr. K.Sakthimala** moved that the break of study availed by Akkshat.S.P.M. (Reg.No: 7176 21 31 005) M.Sc. Software Systems II(s) (2021 batch) be approved.

Dr. S.Suganthi seconded the move.

The move was put to vote and carried.

ITEM NO : 45.24

The Standing Committee and Board of studies – **Computing** recommended and **Dr. S.Suganthi** moved that the Third to Sixth Semester Curriculum and Syllabi for the students of M.Sc. Data Science degree programme admitted during 2021 – 2022 and subsequently, be approved.

Dr. K.Sakthimala seconded the move.

The move was put to vote and carried.

ITEM NO : 45.25

The Standing Committee recommended and **Dr. A.Kannammal** moved that the following admission criteria for Five year Integrated **M.Sc. Decision and Computing Sciences** degree programme students during 2022–2023 and subsequently, be approved.

A Pass in H. Sc. /equivalent exam with Mathematics, Physics and Chemistry as the subjects of study.

(or)

A Pass in H.Sc./equivalent exam with one subject from Category A and 2 subjects from Category B as the subjects of Study.

Category A: Mathematics, Applied Mathematics, Statistics, Business Mathematics, Business Mathematics and Statistics.

Category B: Commerce, Economics, Accountancy, Computer Science.

Dr. J.Shana seconded the move.

The move was put to vote and carried.

COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE
(Government Aided Autonomous Institution)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

BOARD OF STUDIES - MINUTES OF THE MEETING

BoS/R2023/ MoM 1

21.01.2023

The Board of Studies (BoS) meeting of the department of Electrical and Electronics Engineering was held on **21.01.2023**, Saturday by 2.00 P.M in Automation Lab to finalize the curriculum structure of the Regulation 2023 and the syllabi of semesters 1 & 2, with the members nominated as follows.

S.No.	Name of the Members
	CHAIRPERSON - BoS
1.	Dr.S.Vasantharathna, Professor and Head, Department of EEE, Coimbatore Institute of Technology, Coimbatore -641 014
	UNIVERSITY NOMINEE
2.	Dr. Sujatha Balaraman Professor Department of EEE Government College of Technology, Coimbatore – 641013 Phone: 9976443102 Email: sujathaeec@gct.ac.in
	SUBJECT EXPERTS
3.	Dr. M. Sabarimalai Manikandan Associate Professor Department of EEE Indian Institute of Technology, Palakkad Phone: 7894447889 Email: msm@iitpkd.ac.in
4.	Dr. P. Parthiban Associate Professor Department of EEE National Institute of Technology, Surathkal Phone: 9019153775 Email: parthiban@nitk.edu.in

INDUSTRY EXPERT	
5.	Mr. Uthrakumar Arumuganainar Project Manager Soliton Technologies, Coimbatore Phone: 7795353007 Email: uthrakumar@solitontech.com
ALUMNUS	
6.	Ms. Girija G Joint Director Central Power Research Institute, Bangalore Email: girija@cpri.in 9449037091

S.No	Internal Members	S.No	Internal Members
1.	Dr.S.Vasantharathna	16.	Dr.R.Rajalakshmi
2.	Dr.V.Manikandan	17.	Ms.M.Mynavathi
3.	Dr.E.ChandiraSekaran	18.	Dr.M.Packiasudha
4.	Dr.S.Suja	19.	Dr.M.Radha
5.	Dr.J.Devi Shree	20.	Dr.RathnaPriya
6.	Dr.S.Geetha	21.	Dr.K.Suresh
7.	Dr.G.Manavaalan	22.	Dr.M.L.Merlinsajini
8.	Ms.D.Prema	23.	Mr.P.Vinodkumar
9.	Ms.K.Vanithamani	24.	Mr.B.Vasanthan
10.	Ms.P.Devaki	25.	Ms.K.Arthi
11.	Dr.A.Kavithamani	26.	Ms.E.Suganya (On Leave)
12.	Dr.S.Elango	27.	Dr. R. Prabhakaran/Department of Mathematics
13.	Ms.A.Priyadarshini	28.	Dr.S.Sugapriya/Department of Chemistry
14.	Dr.S.Gunasekaran	29.	Dr. S. Agilan/Department of Physics
15.	Dr.S.Nanda Kumar	30.	Dr. A. Shantha Devi/Science and Humanities

MINUTES OF THE MEETING

The Chairperson Dr. S. Vasantharathna welcomed the members of the Board of Studies meeting with the following agenda.

- To discuss and finalize the B.E. Subjects of Study and syllabus of the semesters 1 & 2 for the Regulation 2023.
- To discuss and finalize the new elective subject introduced for the Regulation 2019.
- To discuss and finalize the B.E / B. Tech Honors/Major/Minor for the students admitted from 2021 onwards.
- To ratify the One Credit Courses and Ph.D course work.

ITEM 01	The Chairperson Dr. S. Vasantharathna presented the subjects of study for the Regulation 2023
Resolution	Curriculum structure is designed with 5 theory subjects, 3 laboratory subjects, internship, mini-project, project work and mandatory courses.
ITEM 02	TECHNICAL ENGLISH
Discussion	External Board members have asked to clarify the need of English that has to be studied in two semesters.
Decision	The Co-opted member Dr. A. Shantha Devi, Department of English has clarified that the students would study the theory concepts in the first semester and in the second semester the students would be trained through hands-on sessions to improve their communication skill.
ITEM 03	MATRICES AND CALCULUS / COMPLEX ANALYSIS AND TRANSFORMS
Discussion	External and internal board members have suggested to strengthen the content of matrices and to add the content of partial derivatives and to ensure the coverage of gate syllabus. They have suggested to change the title too. In the subject complex analysis and transforms board members have suggested to combine Fourier Series and Transforms and to include Z Transforms.
Decision	Co-Opted member Dr. R. Prabhakaran, Department of Mathematics has been suggested to modify the content of the syllabus and to change the nomenclature accordingly.
ITEM 04	CHEMISTRY FOR ENERGY STORAGE TECHNOLOGIES
Discussion	Dr. Sabarimalai Manikandan and Mr. Uthrakumar have suggested for changing the title of the subject “Chemistry for Energy Storage Technologies” and have mentioned that the chemical properties of display devices may be added.
Decision	After the discussion among the internal and co-opted members, it has been proposed as “Electrochemical Technologies” and the board has approved the same.
ITEM 05	BASIC CIVIL AND MECHANICAL ENGINEERING
Discussion	Board members have suggested to align the syllabus of mechanical engineering towards the need of electrical students in understanding the thermal and basic mechanical concepts rather than having the concept of introduction to power system.
Decision	It has been accepted by all the internal members.
ITEM 06	ELECTRON DEVICES AND CIRCUITS
Discussion	Board members have suggested to remove the content of SMPS and UPS and to add the content of linear power supplies and also to ensure the flow in unit 3 as Rectifiers: half wave, full wave and bridge rectifiers- Performance factors: ripple factor, transformer utilization factor and rectification efficiency
Decision	Co-Opted member Dr. S. Agilan, Department of Physics has been asked to modify the syllabus content accordingly.

ITEM 07	ECOLOGY AND ENVIRONMENTAL SCIENCE
Discussion	Board members suggested to revise the title of unit 5 and to add the related proposals of the Tamil Nadu government.
Decision	Co-Opted member Dr. S.Sugapriya, Department of Chemistry has been asked to modify the syllabus content accordingly.
ITEM 08	SUBJECTS TO BE COMBINED
Discussion	Dr. Sabarimalai Manikandan has suggested to combine the syllabus of the following subjects to avoid repetition of conceptual understandings. <ul style="list-style-type: none"> • Electric and magnetic circuits – sem 1 • Electric circuit analysis – sem 3 • Networks and systems – sem 4 • Digital circuits – sem 1 • Electron devices and circuits – sem 1
Decision	Internal board members accepted to revise the curriculum accordingly
ITEM 09	TRANSFORMERS
Discussion	Board members have suggested, to shift the course on Transformers to the higher semesters instead of having in semester 2 and to include the basic subjects like basic communication engineering and basic concepts of computer programming/networking/communication tools.
Decision	Based on ITEM 08 outcome, the subjects would be added.
ITEM 10	ANALOG AND DIGITAL CIRCUITS
Discussion	Dr. Sabarimalai Manikandan has suggested to have the individual subject for analog and digital circuits and also suggested to combine analog and linear circuits
Decision	Internal board members accepted to revise the curriculum accordingly
ITEM 11	EMBEDDED SYSTEM DESIGN
Discussion	Mr. Uthrakumar has suggested to shift the course on Embedded System Design to the earlier semester in order to facilitate the students to do their mini project.
Decision	It would be considered during curriculum revision.
ITEM 12	POWER ELECTRONICS
Discussion	Dr. P. Parthiban and Dr. Sabarimalai Manikandan have suggested to shift the course on Power Electronics to the previous semester.
Decision	Internal members have accepted to swap among the subjects Power Electronics in VI semester and Power System Analysis in V semester.

ITEM 13	GENERATION OF ELECTRICAL ENERGY
Discussion	Dr. Sujatha Balaraman has asked to combine the subjects Generation of Electrical Energy and Transmission and Distribution
Decision	After the elaborate discussion it has been finalized to have the subjects individually as such and Dr. Sujatha Balaraman has recommended to change the title of the subject Generation of Electrical Energy.
ITEM 14	DIGITAL PROTECTION OF POWER SYSTEM
Discussion	Dr. Sujatha Balaraman and Ms. G. Girija have suggested to revise the contents of conventional protection in the subject Digital Protection of Power System.
Decision	It would be considered during curriculum revision.
ITEM 15	ELECTIVE LABORATORIES
Discussion	Dr. P. Parthiban and Dr. G. Girija have clarified about the content of the elective laboratories and Dr. Sujatha Balaraman has asked to have three contact hours for the laboratories.
Resolution	Syllabi of the elective laboratories include the relevant experiments from the elective stream that would be studied by the students and the credit should be only in-terms of integer for each laboratory courses.
ITEM 16	FOG COMPUTING
Discussion	Board members have suggested to change the title of the subject Fog Computing as Distributed Computing.
Decision	Accepted by all the internal members.
ITEM 17	MANDATORY COURSES
Discussion	All the board members have approved the department specific mandatory courses which would aid in developing the knowledge and skills of the students.
Decision	The mandatory courses may be modified or added further, based on the department requirements.
ITEM 18	POs, PEOs and PSOs
Decision	The POs, PEOs and PSOs would be revised as per the suggestions given by the board members about the overall curriculum structure.
ITEM 19	VERTICALS/ONE CREDIT COURSES/Ph.D COURSE WORK
Decision	The verticals proposed for B.E / B. Tech Honors/Major/Minor for the students admitted from 2021 onwards, new elective subject (Operating Systems) for R 2019, One Credit Courses and Ph.D course work (Smart Systems) are approved by the board members and suggested to add the subjects Signals and Systems and Digital Signal Processing in the verticals.

ITEM 20	TAMIL NADU GOVERNMENT SCHEMES
Discussion	The University Nominee Dr. Sujatha Balaraman gave the introduction about Tamil Nadu government initiatives such as Naan Mudhalvan and Nallaya Thiran (etc.,) which would be considered for the skill development of the students.
Decision	All the Board members have accepted.
ITEM 21	GENERAL SUGGESTION
Discussion	All the board members have suggested to include the subjects and syllabi content towards the futuristic technological development as per the various apex bodies like AICTE, UGC and Anna University etc., and the Central and State Government educational policies.
Decision	All the internal members have agreed the point.

Finally, Chairperson has concluded the meeting by summarizing the major points discussed in the forum.

S. Vasantharathna
21/1/2023

Dr. S. Vasantharathna

Chairperson - BoS

Copy to:

Controller of Examinations

External members (through email)

Internal members (By circulation)

Department file

Minutes of the 36th Board of Studies Meeting

- Minutes of the meeting of the Board of Studies in Civil Engineering held on Saturday, the 21st January, 2023 at 2.00 P.M at Coimbatore Institute of Technology, Coimbatore - 641014 to review the 2023 curriculum and syllabi of B.E. Civil Engineering and to propose the change of nomenclature of M.E. Environmental Engineering and Management as per new nomenclature M.E. Environmental Engineering.
- Dr.V.G.Srisanthi, HOD, Civil Engineering Department welcomed the members and initiated the discussions by requesting the external members Dr.R.Thenmozhi, Dr.M.Ibrahim Bathusha, Dr.A.Sudhakar and Er.S.Prabhu to review the syllabus for both UG and PG courses as per agenda and to suggest changes/modifications if any.
- Dr.V.G.Srisanthi first presented Vision and Mission of the Department of Civil Engineering with Programme Educational Objectives (PEO), Programme Outcomes (PO) and Programme Specific Outcomes of UG course. The BOS members approved the changes in the Mission of the department.
- The curriculum structure was presented in the meeting for approval by BOS Committee. The board then discussed in length syllabus of each course, professional electives, open electives as per new 2023 curriculum and Verticals for those who are opting for B.E. Honours in 2019 regulation for the students admitted from 2021-22.

The following suggestions were made by external members for B.E. Civil Engineering programme:

- a) The external member Dr.R.Thenmozhi suggested to change the Name of the subject "Python for Civil Engineers" as "Python programming for Civil Engineers", "Applied Chemistry for Civil Engineers" as "Engineering Chemistry for Civil Engineers", "Strength of Materials Laboratory" as "Material Testing Laboratory" and "Highway Design Laboratory" as "Highway Engineering Laboratory", "Highway Engineering" as "Highways and Railways Engineering", "Strength of Materials" as "Mechanics of Solids II" during the presentation of curriculum structure.



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- b) The external member Dr.M.Ibrahim Bathusha suggested to change the Name of the subject "Industrial waste water treatment and management" as "Industrial waste water treatment". He suggested to include waste water recycling, Reverse Osmosis and Filtration Techniques in the course "Design of Physio chemical and Biological Treatment System".
- c) Dr.A.Sudhakar suggested to include chemistry of pozzalonic materials under third unit instead of properties of lubricants in the course "Engineering Chemistry for Civil Engineers" offered in first semester. In the course "Construction materials" the external member suggested to include Acceptance criteria of concrete, Recycled aggregates under the unit "Concrete". He also insisted to change thermocole panels as EPS Panels under the unit "Special Materials".
- d) The external member Dr.R.Thenmozhi suggested revising the second unit "Masonry" based on standard book. It is insisted to change "Formwork" in fourth unit as "Introductory to formwork" in the course "Construction Technology". The external member insisted to add "Introduction to 3D printing technology" under the unit "Manufacture of concrete" in the course "Concrete Technology".
- e) The external member Er.S.Prabhu suggested to include CSEB blocks, construction demolition waste materials under the unit "Special Materials" in the course "Construction Materials". He also suggested including "Alternative Construction Technology" as one credit course.
- f) The members suggested to offer one credit courses such as "Introduction to LIDAR Surveying", "Introduction to Drone Surveying" in 2023 curriculum.
- g) Dr.A.Sudhakar suggested incorporating Scrum philosophy concepts and Agile concepts in the course "Construction Management". He also insisted to add topics such as Soil nailing, Application of geo synthetics, Geotextiles in the course "Mechanics of Soils".
- h) The members suggested to include "Introduction to Pre-Engineered Buildings" in the course "Advanced design of steel structures".
- i) The members approved the list of verticals presented and syllabi for B.E. Honours programmes as per Anna University recommendations.

**Change of Nomenclature for M.E. Environmental Engineering and Management as
M.E. Environmental Engineering:**

- j) The 36th Board of Studies in the Department of Civil Engineering approved a change in the nomenclature of the M.E. Environmental Engineering and Management programme to M.E. Environmental Engineering from the academic year 2022-23 onwards.
- k) The titles of four courses were altered to align with the new programme nomenclature. The specific course title changes are listed in the table provided.

S. No.	Previous title of the course	Changed title of the course
1.	19MEN15 - Industrial Wastewater Treatment and Management	19MEN15 - Industrial Wastewater Treatment and Control
2.	19MEN22 - Air Pollution Control	19MEN22 - Air Pollution Control Engineering
3.	19MENE05 - Ecology and Ecosystem Management	19MENE05 - Ecological Engineering
4.	19MENE04 - Noise Pollution Management	Removed

- l) All members of the Board of Studies reviewed, recommended, and approved the changes to the M.E. Environmental Engineering curriculum.
- All these suggestions were discussed in the meeting and it was decided that efforts would be made by the chairperson Dr.V.G.Srisanthi to implement all the suggestions wherever possible.
 - The meeting came to the end with vote of thanks proposed by Dr.V.G.Srisanthi, Head of Department, and Civil Engineering.



S. S. P.

V. G. S.
H.O.D., (CIVIL)
C.I.T., Coimbatore - 14



COIMBATORE INSTITUTE OF TECHNOLOGY

(Govt. aided Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore-641014, TAMIL NADU, INDIA

Department of Mechanical Engineering

Minutes of the 41st Board of Studies meeting (BoS), held on 21.01.2023

The 41st Board of Studies meeting chaired by Dr. N. Rajam Ramasamy, Head of the Department (I/c), Department of Mechanical Engineering, Coimbatore Institute of Technology, was held on 21.01.2023 at 2.00P.M. in IT-213. The Chairman welcomed the members (attached in Annexure) and invited Dr. A. Karthikeyan to present the curriculum and syllabus up to the first four semesters proposed for the 2023 Regulation.

The following items were resolved:

Item 1: Ms. R. Sudha presented the syllabus of the Technical English course which is designed for all the students including Tamil medium background. Ms. R. Sudha also informed the expert members that training will be given in the laboratory component on technical writing.

Resolved and recommended to give laboratory component on technical writing.

Item 2: Dr. B. Gayathri presented the contents of the course on Chemistry for Mechanical Engineers. Dr A. Valan Arasu urged to ensure that no overlapping of topics on Nano materials, between courses on Physics for Mechanical Engineers and Chemistry for Mechanical Engineers.

Resolved that no overlapping of topics on Nano materials, between courses on Physics for Mechanical Engineers and Chemistry for Mechanical Engineers.

Item 3: Dr. G. Suresh Kannan presented the contents of the course on Engineering Materials and Metallurgy.

Mr. K. Karthik suggested to ensure that overlapping of contents be avoided between Chemistry for Mechanical Engineers and Engineering Materials and Metallurgy. Dr G Suresh Kannan responded that the contents of the said two courses are different.

Resolved that overlapping of contents between Chemistry for Mechanical Engineers and Engineering Materials and Metallurgy are avoided.

Item 4: Dr. C. P. Yoganand presented the contents of courses on Physics for Mechanical Engineers - I and Physics for Mechanical Engineers - II. Dr. S. Vinodh suggested assignments based on applications to the concepts in the course syllabus. He also suggested including topic on different types of shape memory alloys. Dr. Sridhar Thyageswaran proposed including contents on High Entropy Alloys. Dr A Valan Arasu replacing Preparation of Nano-materials as they are discussed in Chemistry for Mechanical Engineers too. Dr Kulasekaran suggested inclusion of material characterization.

Chairman
Board of Studies

Dr. N. Rajam Ramasamy, Ph.D.,
Head i/c,
Department of Mechanical Engineering,
Coimbatore Institute of Technology,
Coimbatore - 641 014, INDIA



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Department of Mechanical Engineering

Resolved and recommended to include a topic on High Entropy Alloys in the module on Novel Engineering Materials in the course on Physics for Mechanical Engineers - II.

Resolved and recommended to include a topic on Material Characterization in the module on Mechanical Properties and Testing in the course on Engineering Materials and Metallurgy

Item 5: Dr. G. Sivakumar presented the syllabus of Engineering Graphics I and II which included both manual and AutoCAD practice. Dr. A. Valan Arasu enquired about the necessity of tutorial hours in engineering graphics and the Chairman responded that tutorial hour is for freehand sketching. Dr. N. Kulashekar asked if the topic on Section of Solids will be dealt with. Dr Sivakumar responded that it will be discussed in Engineering Graphics - II. Dr. A. Valan Arasu inquired on the nature of assembly drawings offered in Engineering Graphics - II since a course in Machine Drawing is given. He added that these topics can be dealt with effectively after the students are introduced to the topic on Fits and Tolerances. Dr. A. Valan Arasu suggested that Assembly drawing in Engineering Graphics – II in the second semester is too early and Dr. S. Vinodh suggested including fits and tolerances in assembly drawing. Dr. A. P. Sathiyagnanam suggested shifting the Assembly drawings content to machine drawing which will be given in a later semester.

Resolved and recommended to include perspective projection in Engineering Graphics - II and move contents on assembly drawings from Engineering Graphics – II to Machine Drawing

Item 6: Mr. M. Karthikeyan presented the syllabus of manufacturing processes and pointed out that only theoretical concepts are covered. Mr. N. Mani suggested having metal cutting and machining parts including laser/plasma and water jet machining in the contents. The Chairman suggested rephrasing the contents. Mr. N. Mani mentioned that Messers offers books and visits to virtual labs for institutions.

Resolved and recommended to include metal cutting and machining parts including laser/plasma and water jet machining in the contents of Manufacturing Processes

Item 7: Dr. S. Vinodh suggested including the FLD diagram in unit two of the course manufacturing sciences. Dr. N. Kulashekar suggested introducing simulation softwares used in the industry.

Resolved and recommended to include the FLD diagram in unit two of the course on Manufacturing Sciences.

Chairman
Board of Studies

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Head i/c,
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Department of Mechanical Engineering

Item 8: Dr. K. Marimuthu presented the computer-aided machine drawing syllabus. Mr. N. Mani suggested including dynamic simulations in the computer-aided machine drawing course. Dr. S. Vinodh suggested including production drawing in a computer-aided machine drawing course.

Resolved and recommended to include production drawing in the course on Computer-Aided Machine Drawing.

Item 9: Dr. S. Vinodh suggested including both C and Python programming for benefit of students. Dr. A. Valan Arasu suggested combining C and Python programming with every two units.

Resolved and recommended to combine C and Python programming with every two units.

Item 10: Dr. A. S. Krishnan presented the syllabus of the Fluid Mechanics course. Dr. N. Kulasekaran suggested that Dimensional Analysis can be given as a separate module.

Dr Sridhar Thyageswaran suggested that the topics on laminar boundary layer flow and introduction to turbulence can be shifted to the third module. He added that the third module be renamed as Viscous Flow. Dr Kulasekaran and Dr Sridhar Thyageswaran suggested renaming the Modules IV and V as Rotary machines and Positive Displacement Machines respectively. Dr Sridhar proposed that Dimensional Analysis may be given along with Governing Equations. Dr Kulasekaran proposed revising topics for the V module. He added that topics on Vane pump, Lobe pump, piston pump, etc shall be included.

Resolved and recommended to have Dimensional Analysis along with the module on Governing Equations.

Resolved and recommended naming third unit as Viscous Flow.

Resolved and recommended naming fourth and fifth unit as Rotary machines and Positive Displacement Machines respectively.

Resolved and recommended to include topics on Vane pump, Lobe pump, and piston pump.

Item 11: Dr. A. Valan Arasu suggested having a summer and winter Air Conditioning in unit five of the applied thermodynamics course. Dr. A. Valan Arasu suggested naming the title steam power cycles for fourth unit on applied thermodynamics course.

Resolved and recommended naming the title steam power cycles for fourth unit on applied thermodynamics course.

Chairman
Board of Studies

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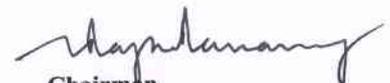
Department of Mechanical Engineering

Item 12: Dr. A. Valan Arasu proposed to addition of a topic on Summer & Winter Air-conditioning processes in the module on Psychrometry for the course on Applied Thermodynamics.

Resolved and recommended to include topics on Summer & Winter Air-conditioning processes in the module on Psychrometry for the course on Applied Thermodynamics.

Deliberations on implementation of the following points for R2023 were made:

1. Dr. A. Karthikeyan presented the curriculum and verticals proposed for B.E Mechanical Engineering with Honors, Major and Minor Specialization.
2. Dr N Kulashekarán suggested having a vertical on Autonomous Vehicles with a course on Mechatronics, highlighting its importance from the perspective of career opportunity. He also inquired about eligibility criteria for the students to take the verticals. The Chairman responded that both theory and laboratory courses on Mechatronics is proposed to be offered. Dr A S Krishnan added that it is proposed to offer a vertical on Robotics and Automation, comprising courses on Smart Vehicles and Drone Technology. He added that the students can opt for verticals from the fifth semester onwards provided they have secured a CGPA of not less than 7.5 with no history of back-logs / arrears.
3. Dr. A. Valan Arasu enquired about the inclusion of courses on Tamil. The Chairman responded that this has been done in congruence with Anna University.
4. Mr. N. Mani appreciated having included the course on Operations Research. He also inquired why it was placed under HSMC. HoD responded that since it is classified under management course, it has been placed under HSMC.
5. Mr. Mani inquired if the "P" in PCC is an acronym for Professional or Programme. The Chairman clarified that "P" stands for Programme.
6. Dr Kulashekarán sought clarification on the availability of softwares for CAD / CAM. The Chairman responded that the students edition of the softwares (Fusion 360 for instance) and open-source softwares are available for training the students.
7. Dr. N. Kulashekarán suggested offering Python programming in lieu of C programming as a core course. He also suggested moving C programming to the elective. The rest of the external members too seconded to this.
8. Mr. N. Mani suggested having contents of DFM, DFC, DFR, and DFS in the syllabus of Design for X. He also suggested having an agile manufacturing course as an elective.
9. Ms. R. Sudha presented the syllabus of the Language Lab course. Dr. S. Vinodh suggested giving team-oriented activities. Dr. N. Kulashekarán suggested sharing feedback and individual performances of students.
10. Dr. S. Vinodh suggested including courses on Industry 4.0, Artificial Intelligence, Machine Learning and Deep Learning under the vertical on Robotics and Automation. Dr. N. Kulashekarán seconded and enquired about expertise for handling these courses



Chairman
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Department of Mechanical Engineering

and the chairman responded that Anna University offers training for faculties for the same and that it is proposed to have the faculty members trained and experts from other departments and / or external members would be invited too, to ascertain that the students have the necessary teaching members to learn.

11. Dr Sathyagnanam and Dr. S. Vinodh suggested having industry-aligned courses to boost research and suggested including courses on Total Quality Management and Six Sigma.
12. Dr. A. Karthikeyan continued to present, and the contents of courses on Mathematics were displayed. Dr. S. Vinodh suggested highlighting the applications Prof. T. Sridhar responded that the contents of the courses on Mathematics have been constructed to address the needs of students of Mechanical engineering.
13. Mr N. Mani suggested including a course on PLC with contents on Structures. He added content on "Ladder" may be avoided as it is outmoded.
14. Dr. N. Kulashekar asked if there are any restrictions on the number of courses in the verticals. The Chairman responded stating that there are no such restrictions.
15. Dr. S. Vinodh suggested using passive voice in framing the experiments list in the foundry and welding lab.
16. Dr. R. Satiskumar presented the metallurgy lab experiments. Dr. A. P. Sathiyagnanam suggested increasing the number of experiments.
17. Dr. A. Valan Arasu suggested having Fluid Machinery lab after completion of the theory course and the Chairman responded that sequence of lab courses will be revised and sent to the members for review at the earliest.
18. The expert members suggested including communication networking protocols in the embedded processor architecture course.
19. Dr. S. Vinodh offered to help construct the course contents on Smart Materials.

Dr. Rajesh Ranganathan proposed the Vote of Thanks and concluded the meeting.

**Chairman
Board of Studies**

Dr. N. Rajam Ramasamy, Ph.D.,
Head i/c,
Department of Mechanical Engineering,
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Coimbatore Institute of Technology
Department of Artificial Intelligence and Data Science
Program: BTech. AI and DS

Board of Studies Meeting Minutes

Date: 21/01/2023

Venue: IT214

Chairperson: Dr. Valliappan Raman, Head of Department, Artificial Intelligence and Data Science
Presentation: Dr. Valliappan Raman, Head of Department, Artificial Intelligence and Data Science

Dr. Valliappan Raman welcome the panel members and presented the previous meeting minutes followed by main agenda of subject of study and curriculum for BTech AI and DS program.

The agenda for the department of AI and DS is to seek board approval for Syllabus (Semester V to Semester VIII, Professional Electives, Majors and Minors Verticals) of Regulation R2021- For students admitted on 2021 onwards) and Regulation 2023 (For students admitted from 2023 onwards] which includes Subject of Study , Syllabus, Profession Electives, Major, Minor Verticals.

Agenda No 1 : Regulation R2021- For students admitted on 2021 onwards) Syllabus for subjects from Semester V - Semester VIII, Professional Electives, Majors and Minors.

Key points:

- In Semester V, for the subject “Cloud Architecture”, panel suggested to reduce the content of MAPREDUCE and to include SCALA in the programming model module. As per panels, SCALA is required in cloud due to its leading, end-to-end platform for running HPC simulations which is secure, scalable, and cost-effective. Panel emphasize to maintain a uniformity in assigning 9 hours for each module.
- In Semester V, for the subject “ Mobile Application Development”, in addition to FLUTTER , panel suggested to introduce basics of android studio, designing user interfaces and testing tools. The panel highlight the reasons of including android which has structured code modules allows the student to divide the project into units of functionality which can independently build, test, and debug. Panel also recommend to think KOTLIN programming which is widely used in industry.
- In Semester V, for the subject “Data Mining and Analysis, panels recommended to reduce the content in each module , which can fit into assigned time duration for each module.
- In Semester V, for the subject “ Big Data Architecture: Tools and Techniques”, panels recommended to introduce popular tools like SPARK and suggested to remove PIG, HIVE which is slowly saturating in the market. Panels recommended to add new big data tools for learning as per industry needs. Faculty suggested, as per the framed syllabus, most of industry required data analytics tools are covered which allows to provide more space for the students to learn the concepts and features as per industry needs.
- In Semester V, for the Mobile Application Laboratory , panels recommend to add android studio if it is not covered in the theory sessions.
- In Semester V, for the mini project, title is named as “Product analysis and design”. Panels suggested to rename the title “ Analysis and Design” or “Prototype Analysis and Design”. As per panels, the term product sounds complex “ deliverables will be like a service, application or system”, but project is unique in that it is not a routine operation, but a specific set of operations

Coimbatore Institute of Technology
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designed to accomplish a singular goal. In this project-based course, students are allowed to analyse the problem, design the architecture and develop simple prototype as the outcome of this course.

- In Semester VI, for the subject “Deep Learning Techniques”, panel checked whether “reinforcement learning is covered” in the syllabus. As per faculty, reinforcement learning is covered already in the subject “Principles of AI” as one module. Apart from these, all the major deep learning concepts and algorithms are included in each module. Panels agreed with the current framed syllabus.
- In Semester VI, for the subject “Data visualization”, panel suggested to check on the possibilities of including “Power BI” and costing, licensing issues while offered in the subject. Panel also emphasize on “Teaching Tableau”, it is a modern intelligence business intelligence software and allows the organizations to be more data driven, so if the course is taught with tableau, it allows students to gain the concept of data visualization, reporting, and business intelligence techniques as per market needs. Panels agreed with the current syllabus of data visualization with the tableau.
- In Semester VI, panel has suggested to rename “Mini Project -Product Testing and Deployment to Mini Project: Prototype Development or Application Development” which has the pre-requisite subject “Prototype Analysis and Design. As per the panel, outcome of this course is to build and deploy the software prototype.
- In Semester VII, for the subject “IoT and its application”, panel has recommended to change the title of first module from “Introduction” to “IoT architecture”. Panels recommended to add a topic on enterprise IoT which allows the students gain knowledge on how IoT helps in business sector.
- In Semester VII, for the subject “Applied Natural Language Processing”. Panels suggested to change the title to “Natural Language Processing” or maintain the same subject title and add applications in majority of the modules, so the students have clarity on learning NLP concepts and relate it to the real-world applications. Panels recommend to add the applications like text filtering, chatbots can be added in the modules.
- For Professional electives, panels suggested to keep updating the elective subjects as per industry requirements.
- In the major vertical “Robotics”, for the subject Robot Research Project”, panels suggested to verify with anna university for including “project-based course” into verticals. Panel recommended to replace “Robot Research Project subject with “Autonomous System” as a 3-credit course.
- In general, panels have emphasized on maintaining 9 hours per module for all the courses. Panels have highlighted the title for first module in majority the course is “Introduction”, suggested to change as concepts, overview, basics, fundamentals or foundations.

Resolution: Resolved by agreeing to anna university nominee and panel feedbacks.

Agenda 2: Regulation 2023 (Students admitted from 2023 onwards) Subject of Study, Syllabus for Subjects from Sem I to Sem VIII, Professional Electives, Majors and Minors.

Coimbatore Institute of Technology
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Key points:

- In Semester I, for the subject “ Introduction to programming paradigms”, panels felt the title is complex due to term “paradigm” which covers multiple concepts, Panels recommends to cover problem solving techniques, computational thinking and concepts of c program rather covering programming paradigms like functional, procedural, imperative which can be taught in later stages. The panel has also suggested to introduce Object Oriented Programming Concepts in Python Programming rather than with Introduction to Programming. Finally, panel recommends to keep the title as “ Introduction to Programming “ due to course is offered at foundation stage.
- In Semester I, for the subject “ Applied Physics” and “Applied Chemistry”, the science and humanities faculties briefed the syllabus which is designed in the form of significance of basic science in computer science industry.
- In Semester II, for the subject “ Programming with Python”, panels suggested to include the first module as “ Object Oriented Programming” followed by the concepts of python and its packages.
- In Semester III, for the subject the “ Principles of AI”, panel recommended to change the title to “ Artificial Intelligence”.
- In Semester III, for the subject “ Data structure and algorithms”, panels recommended to increase the number of teaching hours of sorting, tree, graphs which are very important for placement technical test and interview sessions.
- In Semester III, “Database Management Systems” panels suggested to introduce NOSQL in theory, but it is covered in the Database Management System Laboratory. Panels agreed to maintain the framed syllabus.
- In Semester IV, for internship, panel recommended to check the possibility of moving the internship to SEM VII, which allows the students gain industry experience and helpful for placement.
- In Semester VIII, for the project-based subject “ Industry Project and Viva Voice”, the panel suggested to rename Industry Project and Viva – Voice to Final Year Project Work and Viva – Voice.
- In generic, there is no major changes in Regulation 2023, minor changes include latest topics in the subjects, assigned teaching hours per modules and title of the subjects.

Chairperson request for the approval of changes and thank the panel members for valuable time and constructive feedbacks

The Board has approved the syllabus for Sem V to Sem VIII for R2021- Student admitted on 2021 onwards , subject of study and syllabus for Sem I to Sem VIII for R2023 (Students admitted from 2023 onwards) , Professional Electives, Majors in Robotics, Majors in Advanced Machine Learning and Minors in Business Data Analytics for R2021 and R2023.



Dr.VALLIAPPAN RAMAN
Professor And Head
Department of AI And DS
Coimbatore Institute of Technology
Coimbatore - 641014.

Coimbatore Institute of Technology
Department of Computing

The meeting of the Board of Studies in Computing is scheduled to be held at 9.30 A.M. on Saturday, 30 July 2022 at Department of Computing, CIT.

Please find the agenda:

1. Discussion on Curriculum and Syllabi for third to sixth semester of 5-year integrated M.Sc. Data Science Programme (2021 Regulation).
2. Discussion on Curriculum and Syllabi for first and second semester of 5-year integrated M.Sc. Decision and Computing Sciences Programme (2022 Regulation).
3. Any other matter

Internal Members

1. Dr.K.Sakthimala, Professor & Head, Department of Software Systems *LS*
2. Dr.A.Kannammal, Professor & Head, Department of Decision and Computing Sciences
3. Dr.S.Suganthi, Professor & Head, Department of Data Science *S*
4. Dr.J.Shana, Associate Professor & Head (In-charge), Department of AI&ML *JS*
5. Dr.R.Jeyarani, Associate Professor, Department of Software Systems
6. Dr.N.Yamuna Devi, Associate Professor, Department of Decision and Computing Sciences
7. Dr.S.Manjula Gandhi, Associate Professor, Department of Software Systems *OH*
8. Dr.D.Sudha Devi, Associate Professor, Department of Data Science *RS*
9. Dr.A.Saravanan, Associate Professor, Department of Software Systems *AS*
10. Dr.R.Umarani, Associate Professor, Department of Decision and Computing Sciences
11. Ms.V.Shanthi, Assistant Professor (Senior Grade), Department of Software Systems
12. Dr.A.D.Chitra, Assistant Professor, Department of Software Systems *CA*
13. Dr.D.Anandhi, Assistant Professor, Department of Software Systems *A*
14. Dr.M.Srividya, Assistant Professor, Department of Data Science *MS*
15. Dr.D.Manju, Assistant Professor, Department of Decision and Computing Sciences
16. Dr.P.Aruna, Assistant Professor, Department of Software Systems *P*
17. Dr.M.Umarani, Assistant Professor, Department of Software Systems
18. Dr.M.Sujithra, Assistant Professor, Department of Data Science *M*
19. Dr.T.N.Sugumar, Assistant Professor, Department of Software Systems
20. Dr.N.Priya, Assistant Professor, Department of Software Systems *N*
21. Dr.S.Deivarani, Assistant Professor, Department of Data Science
22. Ms.K.H.Vani, Assistant Professor, Department of Data Science *KH*
23. Dr.V.Keerthika, Assistant Professor, Department of Software Systems *V*
24. Dr.M.Marimuthu, Assistant Professor, Department of Data Science
25. Dr.S.Gayathri Devi, Assistant Professor, Department of Data Science *S*
26. Dr.S.Chandia, Assistant Professor, Department of Decision and Computing Sciences *SC*
27. Dr.P.Velvadivu, Assistant Professor, Department of Data Science *P*
28. Mrs.V.Radhamani, Assistant Professor, Department of Decision and Computing Sciences
29. Mrs.J.Rathika, Assistant Professor, Department of Data Science *J*
30. Dr.C.Stanly Felix, Assistant Professor, Department of Software Systems *Stanly*
31. Dr.E.Chandra Blessie, Assistant Professor, Department of AI&ML *E*
32. Dr.S.B.Mahalakshmi, Assistant Professor, Department of AI&ML *S*

L. Sakthimala
Chairman - BoS Computing

2/1/22

COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE-14
DEPARTMENT OF COMPUTING-AI&ML
BOARD OF STUDIES MEETING
30-07-2022 @9.30AM

1. Dr. Nickolas and Dr. Cynthia suggested to include any one object oriented programming language either C++ or Java.
2. The board passed the following one credit course for MSc. Artificial Intelligence and Machine Learning under 2019 regulations.
19MAMOC02- JAVA PROGRAMMING
3. Dr. Nickolas recommended to include the latest edition or latest books for textbooks and references.

Sham
02/8/22
H.O.D (i/c)

L. Cynthia
Dean

COIMBATORE INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTING
Board of Studies Meeting held on 30.07.2022
Minutes of the Meeting

M.Sc. Data Science

The Board has discussed and passed the Courses of Study and Syllabi for Semesters III, IV, V, and VI of Five Year Integrated M.Sc. Data Science programme, applicable for the students admitted during 2021-22 and subsequently.

The following recommendations were given by the members of the Board of Studies:

1. Dr. S. Nickolas suggested renaming 21MDS33 - Computer Architecture and Operating Systems as Operating Systems.
2. Dr. J. Cynthia suggested the inclusion of 'Introduction to transaction processing' in the course 21MDS34-Database Systems.
3. Dr. Parasuram BalaSubramaniam specified the importance of the course, 'Human-Machine interaction' and advised it to be offered as a core course/module.

M.Sc. Decision and Computing Sciences

Dr A Kannammal presented the proposed curriculum of Five Year Integrated M.Sc Decision and Computing Sciences for the students admitted during 2022-23 and subsequently.

A. The Board has discussed and passed the Courses of Study and Syllabi for Semesters I and II of M.Sc. Decision and Computing Sciences programme.

1. Dr. J.Cynthia suggested changing the prerequisites for the first semester courses to "Nil" instead of "Consent of the Instructor".
2. Dr. J Cynthia recommended giving more weightage to Web application development in "22MDC18 - Foundations of Computer Science Laboratory" than to basic Word and PowerPoint applications.
3. Dr. P.Balasubramaniam suggested including the concept of "Human Parity" in Management courses in the higher semesters.
4. Dr. S. Nickolas suggested changing the title of the course "22MDC24- Computer Systems" to "Computer Organization and Operating Systems"
5. Dr. J Cynthia suggested including exercises that use advanced python packages required for Data Science in "22MDC27 - Python Programming Laboratory".
6. Dr. J Cynthia put forward having "Industrial IOT" as a course that includes the practical version of the IOT concepts.

7. Dr P Balasubramaniam suggested introducing a course on "Human-Computer Interface and Interaction" and its associated Laboratory in the curriculum.
 8. Dr P Balasubramaniam recommended including digitization in the "Controlling" part of the "22MDC 14 Principles of Management" course.
 9. Dr. P Balasubramaniam suggested changing "Software Testing and Quality Assurance Laboratory" to "Software Engineering Laboratory", and including the software design part.
- B. Inclusion of an elective course named, 17MDCE52 Advanced Machine Learning for the students admitted from 2018- 2019 to 2021-2022, was approved.

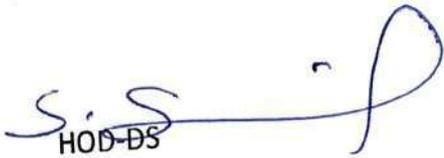
M.Sc. Artificial Intelligence and Machine Learning

Dr. J Shana proposed to include 2 one-credit courses namely, 19MAMOC02 Basic Java Programming and 19MAMOC03 Object Oriented Programming in C++.

1. Dr. Nickolas and Dr.Cynthia suggested having a single course on object-oriented programming, with C++ or Java and it was finalized to introduce 19MAMOC02- JAVA PROGRAMMING as a one-credit course for students admitted during 2019-20 onwards.
2. Dr. Nickolas recommended including the latest edition or latest books for textbooks and references.

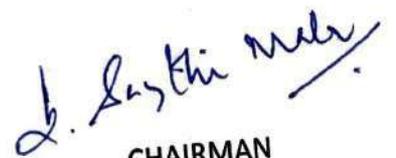
M.Sc Software Systems

The Board has discussed and finalized the M.Sc (Software Systems) Regulations for the students admitted during 2020-2021 and subsequently.


HOD-DS


HOD - DCS


HOD - AIML


CHAIRMAN
Board of Studies-Computing

The Board of Studies meeting for B.Tech(CIT) was held on 21-01-2023 at IT215:

MEMBERS PRESENT

1. Dr. N. K. KARTHIKEYAN CHAIRMAN N.K.K.
2. Dr. M. RAJALAKSHMI MEMBER M.R.
3. Dr. M. SANGEETHA MEMBER M.S.
4. Dr. N. ANITHADEVI MEMBER N.A.
5. Dr. K. MALARVIZHI MEMBER K.M.
6. Dr. N. GEETHA MEMBER N.G.
7. Dr. E. ARUL MEMBER E.A.
8. Mrs. POORNIMA MEMBER P.
9. Mr. C. MURALE MEMBER C.M.
10. Mrs. S. RAJASREE MEMBER S.R.
11. Mrs. G. THILAGAVATHI MEMBER G.T.
12. Mrs. S. DEVI MEMBER S.D.
13. Dr. E. P. SUBRAMANIAM MEMBER E.P.S.
14. Dr. A. B. VENNELA MEMBER A.B.V.

EXTERNAL MEMBERS

1. Dr. N. ARUL ANAND UNIVERSITY NOMINEE *off*
21/11/2023
2. Dr. B. SURENDIRAN MEMBERS *B. Surendiran*
21/11/2023
3. Dr. G. R. KARPAGAM MEMBER *G. R. Kar*
21/11/2023
4. Mr. RANGARAJA GOPAL MEMBER ← PREOCCUPIED
5. Mr. SHIVA SHANKAR. D MEMBER *D. Shiva Shankar*

The following suggestions were made by Board of Studies members during the meeting:

Dr. N. K. Karthikayan, Head of the Department of Information Technology, Chairman, Board of Studies welcomed the Anna University nominee, experts from Industry and Academia, also introduced the internal BOS members of the meeting.

Dr. Arul Anand, from PSG Tech, Coimbatore has suggested to rename the course "Applied Chemistry" as "Chemistry for Information Science".

Dr. E. P. Subramanian has suggested to keep the course name as "Applied Chemistry" instead of Applied Chemistry-I, since it is common for three branches.

Dr. Arul Anand suggested renaming the course as "Electronic Devices" instead of "Introduction to Electronic Devices".

Dr. Nagarani, HoD of Mathematics, CIT has suggested to rename the course "Linear Algebra, Complex Variables & Transform Techniques" as "Linear Algebra, Complex Variables & Transforms".

Dr. Arul Anand has suggested to rename the course "Computer Network Concepts and Applications" to Computer Networks.

Dr. G.P. Karpagam from PSG Tech, Coimbatore has suggested to rename the courses "Data Structures and ~~to~~ II" to "Data Structures and Algorithms I & II" respectively. Dr. Anul Anand also has reiterated the same.

Dr. Surendiran, from NIT Puducherry, asked for the clarification regarding the mandatory course "Soft Skill" flow of syllabus in all the semesters and clarified the same.

Dr. G.P. Karpagam has suggested renaming of the course "Machine Learning Techniques" as "Machine Learning".

Dr. Anul Anand has suggested to change the course name as "Artificial Intelligence" instead of "Foundations of Artificial Intelligence" as the name implies as if it covers the basics of course only.

Dr. N.K. Karthikeyan has emphasized the need for the course "Economics and Management for IT" for the students of Information Technology.

Mr. Shiva Shankar D, Project Leader, D.E. Shaw India Software Private Limited, has appreciated for the introduction of the courses like "Full Stack Development", "Dev Ops Laboratory".

Dr. Surendiran has suggested to remove the tutorial hour given for the course "Big Data

"Analytics" as the corresponding lab course respectively is available.

Dr. Surendiran has also suggested to keep only the course "Main Project" in VIII semester as it helps the students for internships in the final semester.

Dr. Surendiran raised a clarification regarding the name "Communication Lab" in the second semester. Dr. Arthy, Assistant Professor, Dept of Humanities, CIT has suggested to rename the course "Communication Lab" as "English Communication Lab".

Dr. Surendiran has also suggested for the provision of fast track courses and Learning NPTEL courses instead of elective courses.

Dr. G. R. Karpagam has suggested to rename the vertical "Cloud Application Development" as "Cloud Computing".

Dr. G. R. Karpagam has suggested to introduce the theory course on "Devops" and "Open Source Systems" concepts as the respective laboratory are available in the curriculum.

Dr. Nagaveni has insisted to rename the course

"Graph Theory" as "Applications of Graph Theory".

Dr. Surendiran has suggested to include the course "Quantum Computing" in the vertical "Computational Science".

Dr. G.R. Karpagam has suggested to add "GPU Computing" as an elective in Computational Science.

Dr. G.R. Karpagam has also suggested to introduce the course "Meta verse" in the vertical "Immersive Technology".

Mr. Shiva Shankar suggested to provide two credits to Hackathon.

Mr. Shiva Shankar and Dr. Surendiran insisted on doing internship during end of VI semester instead of doing it at end of IV semester.

Dr. Surendiran suggested to add 2 or 3 more courses to each vertical.

Dr. G.R. Karpagam suggested to add the course "Wireless Networks" in the networking vertical.

N.K.K.

HEAD OF THE DEPARTMENT
[Dr. N. K. KARTHIKEYAN]

PRINCIPLES OF OPERATING SYSTEMS

COURSE OUTCOMES:

On completion of the course, the students will be able to:

CO1: Articulate the main concepts, strengths and limitations of operating systems.

CO2: Analyze the structure and basic architectural components of OS.

CO3: Design and implement memory management schemes

CO4: Understand various file management systems.

CO5: Analyse various aspects of I/O management.

UNIT I OPERATING SYSTEM OVERVIEW

Introduction to OS – Operating System Operations – Virtualization – Operating System Services – User and Operating System Interface – System Calls – Operating System Structures – Process Concept – Process Scheduling – Context Switch – Operations on Processes – Interprocess Communication – IPC in Shared-Memory Systems – IPC in Message-Passing Systems – Examples of IPC Systems.

UNIT II PROCESS SYNCHRONIZATION AND SCHEDULING

Multicore Programming – Multithreading Models – Thread Libraries – Threading Issues – The Critical-Section Problem – Peterson’s Solution – Hardware Support for Synchronization
– Mutex Locks – Semaphores – Monitors – Liveness – Basic Concepts of CPU Scheduling–
Scheduling Criteria – Scheduling Algorithms: FCFS, SJF, RR, Priority, Multilevel Queue, Multilevel Feedback Queue – Thread Scheduling –Real-Time CPU Scheduling.

UNIT III STORAGE MANAGEMENT

Contiguous Memory Allocation – Paging – Structure of the Page Table – Swapping – Demand Paging – Copy-on-Write – Page Replacement – Allocation of Frames – Thrashing –Memory Mapped Files – Allocating Kernel Memory.

UNIT IV FILE SYSTEMS AND I/O SYSTEMS

File Concept – Access Methods – Directory Structure – Protection – File-System Structure –File-System Operations – Directory Implementation – Allocation Methods – Free-SpaceManagement – Recovery.

UNIT V I/O SYSTEMS

I/O Hardware – Application I/O Interface – Kernel I/O Subsystem – Transforming I/O Requests to Hardware Operations – STREAMS – I/O Performance – DISK Scheduling: FCFS, SSTF, SCAN, C-SCAN, LOOK – Disk Management: Disk formatting, Boot block, Bad Blocks.

Reference:

1. Peter B. Galvin, Greg Gagne, Abraham Silberschatz “Operating System Concepts”, 9th edition, John Wiley & Sons, Inc., 2018
2. Andrew S. Tanenbaum Modern Operating Systems ,” Operating Systems”, Prentice Hall of India 5th Edition, 2016
3. William Stallings, “Opearting Systems”, Pearson Education India, 2019