

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade
TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



05th May, 2022

DEPARTMENT OF CIVIL ENGINEERING

FIFTH BOARD OF STUDIES MEETING

I. AGENDA

Item 5.1 To consider and approve the Changes in Course Objectives and Course Outcomes for the following courses as per the Revised Bloom's Taxonomy to correlate the Course Articulation Matrix Formulation for Bachelor of Civil Engineering under Regulations - 2019 through Choice Based Credit System from the academic year 2022-2023 onwards.

Professional Core, Professional Elective and Open Elective Courses

| S.No. | Course Code | Name of the Subject | |
|-------|-------------|--|--|
| | 3 | Professional Core Courses | |
| 1 | 19CET302 | Applied Geology | |
| 2- | 19CET303 | Construction Materials | |
| 3 | 19CET304 | Solid Mechanics | |
| 4 | 19CEE301 | Engineering Survey | |
| 5 | 19CEE302 | Fluid Mechanics and Flow Measurements | |
| 6 | 19CET402 | Construction Techniques, Equipments and Practices | |
| 7 | 19CET403 | Applied Hydraulics Engineering | |
| 8 | 19CET404 | Highway Engineering | |
| 9 | 19CEE401 | Strength of Materials | |
| 10 | 19CEE402 | Soil Mechanics | |
| 11 | 19CET502 | Design of Reinforced Concrete Elements | |
| 12 | 19CET503 | Foundation Engineering | |
| 13 | 19CEE501 | Water Supply Engineering | |
| 14 | 19CEE502 | Concrete Technology and Testing of Concrete | |
| 15 | 19CET601 | Design of Steel Structures | |
| 16 | 19CET603 | Design of Reinforced Concrete and Masonry Structures | |
| 17 | 19CEE601 | Waste Water Engineering | |
| 18 | 19CET701 | Pre-Stressed Concrete Structures | |
| 19 | 19CET702 | Construction Resource Planning and Management | |
| 20 | 19CEE701 | Estimation Costing and Valuation | |



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| Professional Elective Courses | | | |
|-------------------------------|----------|--|--|
| 21 | 19CEPX01 | Architecture and Town Planning | |
| 22 | 19CEPX02 | Construction Planning and Scheduling | |
| 23 | 19CEPX03 | Advanced Surveying | |
| 24 | 19CEPX05 | Digital Cadastre | |
| 25 | 19CEPX07 | Industrial Pollution Prevention and Cleaner Production | |
| 26 | 19CEPX13 | Dynamics and Aseismic Design | |
| 27 | 19CEPX14 | Ground Improvement Techniques | |
| 28 | 19CEPX15 | Air Quality Monitoring and Modelling | |
| 29 | 19CEPX16 | Repair and Rehabilitation of Structures | |
| 30 | 19CEPX17 | Tall Buildings | |
| 31 | 19CEPX18 | Bridge Engineering | |
| 32 | 19CEPX19 | Design of Special Structures | |
| 33 | 19CEPX20 | Design of Multistoried Buildings | |
| 34 | 19CEPX21 | Prefabricated Structures | |
| 35 | 19CEPX23 | Ground Water Contamination, Quality Monitoring and | |
| 35 | 19CEPA23 | Modeling | |
| 36 | 19CEPX24 | Computer Aided Design of Structures | |
| | | Open Elective Courses | |
| 37 | 19CEOX01 | Soil Chemistry and its Impact | |
| 38 | 19CEOX03 | Industrial Pollution Prevention and Cleaner Production | |
| 39 | 19CEOX04 | Renewable Energy Resources | |
| 40 | 19CEOX06 | Green Buildings | |
| 41 | 19CEOX08 | Geographical Information Systems | |
| 42 | 19CEOX09 | Remote Sensing and its Applications | |
| 43 | 19CEOX10 | Air Quality Monitoring and Modelling | |

- Item 5.2 To consider and approve the Change in Text Book for 19CET403 Applied Hydraulics Engineering in fourth Semester as "Fluid Mechanics and Hydraulic Machines" by R.K.Bansal instead of "Flow in Open Channels" by K.Subramanya for Bachelor of Civil Engineering under Regulations 2019 through Choice Based Credit System from the academic year 2022-2023 onwards.
- Item 5.3 To consider and approve the Minor Revision / Addition in the Syllabus of the following course for Bachelor of Civil Engineering under Regulations 2019



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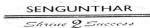


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through Choice Based Credit System from the academic year 2022-2023 onwards:

Professional Core (PC) Courses

- (19CEE302) Fluid Mechanics and Flow Measurements
- (19CEE501) Water Supply Engineering
- (19CEE601) Waste Water Engineering
- Item 5.4 To consider and approve to add one new subject in Professional Elective courses for Bachelor of Civil Engineering under Regulations - 2019 in addition to the existing professional elective courses from the academic vear 2022-2023 onwards:
 - Professional Elective I Course (19CEPX26) Smart Materials
 - Professional Elective II Course (19CEPX27) Climate Change and Adaptation
 - Professional Elective III Course (19CEPX28) Smart Cities
 - Professional Elective IV Course (19CEPX29) Formwork for Concrete Structures
 - Professional Elective V Course (19CEPX30) Corrosion Control Engineering
- Item 5.5 To consider and approve the Changes in Course Objectives and Course Outcomes of the following courses as per the Revised Bloom's Taxonomy to correlate the Course Articulation Matrix Formulation for Master of Structural Engineering under Regulations - 2021 through Choice Based Credit System from the academic year 2022-2023 onwards.





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Professional Core and Professional Elective Courses

| S.No. | Course Code | Name of the Subject | |
|-------|-------------|---|--|
| 1 | 21PSM101 | Advanced Mathematics for Structural Engineering | |
| 2 | 21PST102 | Finite Element Analysis and Methods | |
| 3 | 21PSE101 | Experimental Techniques | |
| 4 | 21PST201 | Advances in Steel Structures | |
| 5 | 21PST202 | Structural Dynamics and Seismic Design | |
| 6 | 21PSE201 | Advances in Concrete Technology | |
| 7 | 21PSP101 | Disaster Resistant Structures | |
| 8 | 21PSP102 | Theory of Structural Stability | |
| 9 | 21PSP103 | Advances in Concrete Structures | |
| 10 | 21PSP104 | Smart Materials for Construction | |
| 11 | 21PSP105 | Cracks and Crack Control in Concrete Structures | |
| 12 | 21PSP201 | Formwork Engineering | |
| 13 | 21PSP202 | Design of Industrial Structures | |
| 14 | 21PSP203 | Structural Health Monitoring | |
| 15 | 21PSP204 | Fracture Mechanics | |
| 16 | 21PSP205 | Pre–Stressed Concrete Structures | |
| 17 | 21PSP206 | Structural Optimization | |
| 18 | 21PSP208 | Wind and Cyclone Effects on Structures | |
| 19 | 21PSP209 | Computer Aided Design of Structures | |
| 20 | 21PSP210 | Mechanics of Composite Materials | |
| 21 | 21PSP302 | Design of Steel Concrete Composite Structures | |
| 22 | 21PSP303 | Design of Masonry Structures | |
| 23 | 21PSP304 | Non-Linear Analysis | |
| 24 | 21PSP306 | Design of Structures for Dynamic Load | |
| 25 | 21PSP307 | Design of Shell and Spatial Structures | |
| 26 | 21PSP308 | Design of Sub-Structures | |
| 27 | 21PSP309 | Structural Analysis by Matrix Methods | |
| 28 | 21PSP310 | Cold Formed Steel Structures | |
| 29 | 21PSP312 | Soil Structure Interaction | |
| 30 | 21PSP313 | Corrosion Engineering | |
| 31 | 21PSP314 | Maintenance and Rehabilitation of Structures | |
| 32 | 21PSP315 | Smart Structures | |

Item 5.6 To consider and approve Minor Changes in Fifth Unit Syllabus for 21PSM101 - Advanced Mathematics for Structural Engineering in First Semester for Master of Structural Engineering under Regulations - 2021 through Choice Based Credit System from the academic year 2022-2023 onwards.



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- Item 5.7 To consider and approve Changes in the guidelines for the course of 21PEE101 - Research Paper Writing and Seminar in First Semester for Master of Structural Engineering under Regulations - 2021 through Choice Based Credit System from the academic year 2022-2023 onwards.
- Item 5.8 To consider and approve curriculum and syllabi for Honours/Minor degree course to be offered by the Department of Civil Engineering for B.E. Programmes under Regulations - 2019 through Choice Based Credit System from the academic year 2022-2023 onwards.
 - Specialization in Construction Technology as Honours for B.E. Civil Engineering and as minor degree for other B.E programmes.

Item 5.9 Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Fifth Board of Studies meeting for the Academic year 2021-2022 of the Department of Civil Engineering held on 05.05.2022 at 3.00 p.m. through blended mode in the Civil CAD Lab with the presence of board members. The following Members attended the meeting.







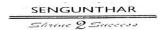


TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

| S. | Name (the French & Decimation | Position in | Signature with |
|-----|---|-------------------------------|------------------------------------|
| No. | Name of the Faculty & Designation | Committee | Date |
| 1 | Dr. M. Seenirajan Associate Professor and Head, Department of Civil Engineering, Sengunthar Engineering College. | Chairman | Orgin Co |
| 2 | Dr. V. M. Shanthi, Professor and Principal, Government College of Engineering, Srirangam, Trichy-620012 | University Nominee | Attended through Google Meet |
| 3 | Dr. S. S. Chandrasekaran, Professor , School of Civil Engineering, Vellore Institute of Technology, Vellore. | External Subject Expert | Attended through Google Meet |
| 4 | Dr. P. T. Ravichandran, Professor, Department of Civil Engineering, SRM Institute of Science and Technology, Chennai. | External Subject Expert | Attended through Google Meet |
| 5 | Er. S. Devanandan, Managing Director, New Premier Constructions Erode. | Industry Expert | Attended through Google Meet |
| 6 | Mrs. N. Kiruthika, Assistant Professor / Civil | . Member | N. 60 115 200 |
| 7 | Mr. M. Soundar Rajan, Assistant Professor /Civil | Member | M. 38/20 ~ |
| 8 | Mr. S. Anand Kumar, Assistant Professor /Civil | Member | \$ 9ms |
| 9 | Mr. K. R. Kesavan, Managing Director Konstruck Designers, Bangalore. | Alumnus | Attended through Google Meet |

III MINUTES OF THE MEETING

The Chairman of BoS / Civil Dr.M.Seenirajan welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following resolutions were passed.









Item 5.1. To consider and approve the Changes in Course Objectives and Course Outcomes as per the Revised Bloom's Taxonomy to correlate the Course Articulation Matrix Formulation for Bachelor of Civil Engineering under Regulations – 2019.

Professional Core, Professional Elective and Open Elective Courses

| S.No. | Course Code | Name of the Subject | |
|---------------------------|-------------|--|--|
| Professional Core Courses | | | |
| 1 | 19CET302 | Applied Geology | |
| 2 | 19CET303 | Construction Materials | |
| 3 | 19CET304 | Solid Mechanics | |
| 4 | 19CEE301 | Engineering Survey | |
| 5 | 19CEE302 | Fluid Mechanics and Flow Measurements | |
| 6 | 19CET402 | Construction Techniques, Equipments and Practices | |
| 7 | 19CET403 | Applied Hydraulics Engineering | |
| 8 | 19CET404 | Highway Engineering | |
| 9 | 19CEE401 | Strength of Materials | |
| 10 | 19CEE402 | Soil Mechanics | |
| 11 | 19CET502 | Design of Reinforced Concrete Elements | |
| 12 | 19CET503 | Foundation Engineering | |
| 13 | 19CEE501 | Water Supply Engineering | |
| 14 | 19CEE502 | Concrete Technology and Testing of Concrete | |
| 15 | 19CET601 | Design of Steel Structures | |
| 16 | 19CET603 | Design of Reinforced Concrete and Masonry Structures | |
| 17 | 19CEE601 | Waste Water Engineering | |
| 18 | 19CET701 | Pre-Stressed Concrete Structures | |
| 19 | 19CET702 | Construction Resource Planning and Management | |
| 20 | 19CEE701 | Estimation Costing and Valuation | |
| | | Professional Elective Courses | |
| 21 | 19CEPX01 | Architecture and Town Planning | |
| 22 | 19CEPX02 | Construction Planning and Scheduling | |
| 23 | 19CEPX03 | Advanced Surveying | |
| 24 | 19CEPX05 | Digital Cadastre | |
| 25 | 19CEPX07 | Industrial Pollution Prevention and Cleaner Production | |
| 26 | 19CEPX13 | Dynamics and Aseismic Design | |
| 27 | 19CEPX14 | Ground Improvement Techniques | |



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| 28 | 19CEPX15 | Air Quality Monitoring and Modelling | |
|---|-----------------------|--|--|
| 29 | 19CEPX16 | Repair and Rehabilitation of Structures | |
| 30 | 19CEPX17 | Tall Buildings | |
| 31 | 19CEPX18 | Bridge Engineering | |
| 32 | 19CEPX19 | Design of Special Structures | |
| 33 | 19CEPX20 | Design of Multistoried Buildings | |
| 34 | 19CEPX21 | Prefabricated Structures | |
| 25 | 19CEPX23 | Ground Water Contamination, Quality Monitoring and | |
| 35 | 19CEPA23 | Modeling | |
| 36 | 19CEPX24 | Computer Aided Design of Structures | |
| | Open Elective Courses | | |
| 37 19CEOX01 Soil Chemistry and its Impact | | Soil Chemistry and its Impact | |
| 38 | 19CEOX03 | Industrial Pollution Prevention and Cleaner Production | |
| 39 | 19CEOX04 | Renewable Energy Resources | |
| 40 | 19CEOX06 | Green Buildings | |
| 41 | 19CEOX08 | Geographical Information Systems | |
| 42 | 19CEOX09 | Remote Sensing and its Applications | |
| 43 | 19CEOX10 | Air Quality Monitoring and Modelling | |
| | | | |

Resolved to approve the changes in Course Objectives and Course Outcomes of the subjects as per the Revised Bloom's Taxonomy to correlate the Course Articulation Matrix Formulation for Bachelor of Civil Engineering under Regulations-2019 as in **Annexure I**.

Item 5.2. To consider and approve the Change in Text Book for 19CET403 - Applied Hydraulics Engineering in fourth Semester as "Fluid Mechanics and Hydraulic Machines" by R.K.Bansal instead of "Flow in Open Channels" by K.Subramanya for Bachelor of Civil Engineering under Regulations - 2019 through Choice Based Credit System from the academic year 2022-2023 onwards.

Resolved to approve the Change in Text Book for 19CET403 - Applied Hydraulics Engineering in fourth Semester as "Fluid Mechanics and Hydraulic Machines" by R.K.Bansal instead of "Flow in Open Channels" by



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K.Subramanya for Bachelor of Civil Engineering under Regulations - 2019 through Choice Based Credit System from the academic year 2022-2023 onwards as in **Annexure II.**

Item 5.3. To consider and approve the Minor Revision / Addition in the Syllabus of the following course for Bachelor of Civil Engineering under Regulations – 2019 through Choice Based Credit System from the academic year 2022-2023 onwards:

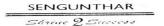
Professional Core (PC) Courses

- (19CEE302) Fluid Mechanics and Flow Measurements
- (19CEE501) Water Supply Engineering
- (19CEE601) Waste Water Engineering

Professional Core (PC) Courses

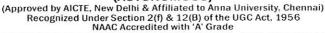
- The following change was carried out in the third semester subject entitled 19CEE302 - Fluid Mechanics and Flow Measurements:
 - One Experiment has been included in addition to the existing 6
 Experiments.
- 2. The following change was carried out in the fifth semester subject entitled 19CEE501 Water Supply Engineering:
 - One Experiment has been included in addition to the existing 7
 Experiments.
- 3. The following change was carried out in the sixth semester subject entitled 19CEE601 Waste Water Engineering:
 - One Experiment has been included in addition to the existing 7
 Experiments.

The Board of Studies Members accepted the above-said points and resolved to approve the Minor Revision / Addition in the Syllabus of the courses for Bachelor of Civil Engineering under Regulations – 2019 through





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Choice Based Credit System from the academic year 2022-2023 onwards as in **Annexure III**.

- Item 5.4. To consider and approve to add one of the Professional Elective courses for Bachelor of Civil Engineering under Regulations 2019 in addition to the existing professional elective courses from the academic year 2022-2023 onwards:
 - Professional Elective I Course

(19CEPX26) Smart Materials

Professional Elective – Il Course

(19CEPX27) Climate Change and Adaptation

• Professional Elective - III Course

(19CEPX28) Smart Cities

• Professional Elective - IV Course

(19CEPX29) Formwork for Concrete Structures

Professional Elective – V Course

(19CEPX30) Corrosion Control Engineering

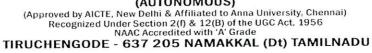
Professional Elective Courses

- 1. (19CEPX26) Smart Materials has been added as one of the elective in the fifth semester under Professional Elective I courses.
- 2. (19CEPX27) Climate Change and Adaptation has been added as one of the elective in the sixth semester under Professional Elective Il courses.
- (19CEPX28) Smart Cities has been added as one of the elective in the seventh semester under Professional Elective – III courses.
- 4. (19CEPX29) Formwork for Concrete Structures has been added as one of the elective in the eighth semester under Professional Elective IV courses.
- 5. (19CEPX30) Corrosion Control Engineering has been added as one of the elective in the eighth semester under Professional Elective V courses.

Resolved to approve the Addition of the Professional Elective (PE) Courses



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for Bachelor of Civil Engineering under Regulations-2019 from the academic year 2022-2023 onwards as in Annexure IV.

Item 5.5. To consider and approve the Changes in Course Objectives and Course Outcomes as per the Revised Bloom's Taxonomy to correlate the Course Articulation Matrix Formulation for Master of Structural Engineering under Regulations - 2021.

Professional Core and Professional Elective Courses

| S.No. | Course Code | Name of the Subject | |
|-------|-------------|---|--|
| 1 | 21PSM101 | Advanced Mathematics for Structural Engineering | |
| 2 | 21PST102 | Finite Element Analysis and Methods | |
| 3 | 21PSE101 | Experimental Techniques | |
| 4 | 21PST201 | Advances in Steel Structures | |
| 5 | 21PST202 | Structural Dynamics and Seismic Design | |
| 6 | 21PSE201 | Advances in Concrete Technology | |
| 7 | 21PSP101 | Disaster Resistant Structures | |
| 8 | 21PSP102 | Theory of Structural Stability | |
| 9 | 21PSP103 | Advances in Concrete Structures | |
| 10 | 21PSP104 | Smart Materials for Construction | |
| 11 | 21PSP105 | Cracks and Crack Control in Concrete Structures | |
| 12 | 21PSP201 | Formwork Engineering | |
| 13- | 21PSP202 | Design of Industrial Structures | |
| 14 | 21PSP203 | Structural Health Monitoring | |
| 15 | 21PSP204 | Fracture Mechanics | |
| 16 | 21PSP205 | Pre–Stressed Concrete Structures | |
| 17 | 21PSP206 | Structural Optimization | |
| 18 | 21PSP208 | Wind and Cyclone Effects on Structures | |
| 19 | 21PSP209 | Computer Aided Design of Structures | |
| 20 | 21PSP210 | Mechanics of Composite Materials | |
| 21 | 21PSP302 | Design of Steel Concrete Composite Structures | |
| 22 | 21PSP303 | Design of Masonry Structures | |
| 23 | 21PSP304 | Non-Linear Analysis | |
| 24 | 21PSP306 | Design of Structures for Dynamic Load | |
| 25 | 21PSP307 | Design of Shell and Spatial Structures | |
| 26 | 21PSP308 | Design of Sub-Structures | |
| 27 | 21PSP309 | Structural Analysis by Matrix Methods | |
| 28 | 21PSP310 | Cold Formed Steel Structures | |
| 29 | 21PSP312 | Soil Structure Interaction | |
| 30 | 21PSP313 | Corrosion Engineering | |
| 31 | 21PSP314 | Maintenance and Rehabilitation of Structures | |
| 32 | 21PSP315 | Smart Structures | |



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Resolved to approve the changes in Course Objectives and Course Outcomes as per the Revised Bloom's Taxonomy to correlate the Course Articulation Matrix Formulation for Master of Structural Engineering under Regulations-2021 as in Annexure V.

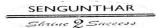
Item 5.6. To consider and approve Minor Changes in Fifth Unit Syllabus for 21PSM101 - Advanced Mathematics for Structural Engineering in First Semester for Master of Structural Engineering under Regulations - 2021.

Resolved to approve the Minor Changes in Fifth Unit Syllabus for 21PSM101 - Advanced Mathematics for Structural Engineering in First Semester for Master of Structural Engineering under Regulations - 2021 from the academic year 2022-2023 onwards as in Annexure VI.

Item 5.7. To consider and approve Changes in the guidelines for the course of 21PEE101 - Research Paper Writing and Seminar in First Semester for Master of Structural Engineering under Regulations - 2021.

Resolved to approve the Changes in the guidelines for the course of 21PEE101 - Research Paper Writing and Seminar in First Semester for Master of Structural Engineering under Regulations – 2021 from the academic year 2022-2023 onwards as in **Annexure VII**.

- Item 5.8. To consider and approve curriculum and syllabi for Honours/Minor degree to be offered by the Department of Civil Engineering for B.E. Programmes under Regulations 2019.
 - Specialization in Construction Technology as Honours for B.E. Civil Engineering and as minor degree for other B.E programmes



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ESTD 2001 Resolved to approve the curriculum and syllabi for Honours/Minor degree to be offered by the Department of Civil Engineering for B.E. Programmes under Regulations - 2019.

Construction Technology

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Specialization in Construction Technology as Honours for B.E. - Civil Engineering and as minor degree for other B.E programmes as in Annexure VIII.

This course will be offered with the approval of Anna University, Chennai.

Item 5.9. Any other points by the permission of the Chair. Nil

Prof. N. Kiruthika, Member of BoS / Civil proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

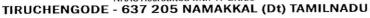
The BoS meeting was concluded by 03.30 p.m.





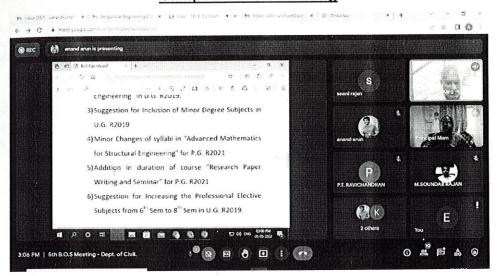
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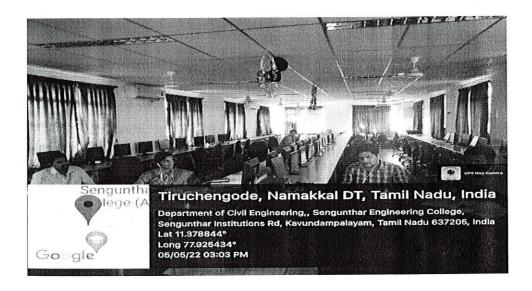
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Glimpses of the meeting







The Audio and Video of the whole meeting has recorded.

(Dr. M. Seenirajan) Chairman (BoS / CIVIL)







7th May 2022

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING FIFTH BOARD OF STUDIES MEETING

I. AGENDA

- Item 5.1 To discuss and approve the Curriculum from I to VIII Semesters for the proposed new programme B.E. - Computer Science and Engineering (Cyber Security) under Regulations - 2019 from the Academic Year 2022 -23 onwards.
- Item 5.2 To discuss and approve the Syllabi from I to IV Semesters for B.E. -Computer Science Engineering (Cyber Security) and under Regulations - 2019.
- To consider and approve curriculum and syllabi for Minor Degree/Honours Item 5.3 to be offered in B.E. - Computer Science and Engineering under Regulations - 2019.
 - Specialization in Cyber Security as Honours for B.E. Computer Science and Engineering and as Minor Degree for other B.E. programmes.
 - Specialization in Artificial Intelligence and Machine Learning as Honours B.E. - Computer Science and Engineering and as Minor Degree for other B.E. programmes.
- To consider and approve the changes in Course Objectives and Course Item 5.4 Outcomes of the following courses as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations -2019:

SEC-Fifth BoS - 7th May 2022

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Professional Core (PC) Courses

19GEE101 - Computer Fundamentals and Python Programming

19CSE201 - C Programming

19CST301 - Data Structures

19CSE302 - Programming in C and C++

19CSE303 - Data Structures using C

19CST302 - Computer Organization and Architecture

19CSE301 - Object Oriented Programming

19CST402 - Operating Systems

19CSE401 - Database Management Systems

19CSE501 - Computer Networks

19CST502 - Theory of Computation

19CST503 - Resource Management Techniques

19EEC501 - Quantitative Aptitude Learning

19CST602 - Compiler Design

19CSPX15 - Graph Theory and its Applications

- Item 5.5 To consider and approve to add one of the trending Professional Elective courses under Regulations - 2019 in addition to the existing professional elective courses from the academic year 2022-2023 onwards:
 - Professional Elective I Course

(19CSPX25 - Data Science)

Professional Elective - Il Course

(19CSPX26 - Optimization Techniques)

Professional Elective - III Course

(19CSPX27 - Mobile Application Development)

SEC-Fifth Bob - 7 May 20ez

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To consider and approve the Minor Revision I-Addition in the Syllabus of the Item 5.6 following course under Regulations - 2019 from the academic year 2022 -2023 onwards:

Professional Core (PC) Courses

- 19GEE101 Computer Fundamentals and Python Programming
- 19CSE201 C Programming
- 19CSE301 Object Oriented Programming
- 19CSE302 Programming in C and C++
- 19CSE303 Data Structures using C
- 19CSE401 Database Management Systems
- 19CSE501 Computer Networks
- 19CSE502 Object Oriented Analysis and Design
- 19CSE601 Mobile Computing
- 19CSE602 Internet Programming
- 19CSE701 Cryptography and Network Security
- 19CSE702 Cloud Computing
- To consider and approve the Minor Revision / Addition in the Guidelines for Item 5.7 the course 21PEE101 - Research Paper Writing and Seminar for M.E. -Computer Science and Engineering Programme under Regulations - 2021 through Choice Based Credit System from the academic year 2022 23 onwards.
- Any other points with the permission of the Chairman. Item 5.8

SEC-Fifth BoS - 7th May 2022



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II. LIST OF MEMBERS ATTENDED

The Fifth Board of Studies Meeting for the Academic year 2022 - 2023 of the Department of Computer Science and Engineering held on 07.05.2022 at 2.30 p.m. through Blended mode. All the members have joined the meeting through Google Meet. Besides, the internal members have present in the college while conducting the online meeting.

The following Members were attended the meeting

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|---|----------------------------|---------------------------------|
| 1 | Dr. M. Sakthivel Professor and Head/CSE Sengunthar Engineering College | Chairman | 2000 |
| 2 | Dr. N. K. Karthikeyan Professor & Head/ IT Coimbatore Institute of Technology, Coimbatore. | University Nominee | Attended through Google Meet |
| 3 | Dr. T. Senthilkumar, AsP/CSE, School of Engineering Amrita Vishwa Vidyapeetam, Coimbatore. | External Subject Expert | Attended through Google Meet |
| 4 | Dr. G. Arulkumaran, AsP/CSE, Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology, Chennal | External Subject Expert | Attended through Google Meet |
| 5 | Mr.S.Ramkumar, Senior - Associate - Projects Cognizant Technology Solutions, Chennal. | Industry Expert | Attended through Google Meet |
| 6 | Dr.B.Sujatha Professor / CSE | Member | I refer to for from |

SEC-Fitth BoS - 7th May 2022

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| 7 | Dr.G.Jayamurugan Associate Professor / CSE | Member | C. Champles D |
|----|--|---------|------------------------------|
| 8 | Mr.K.Ashokkumar Associate Professor / CSE | Member | 45 Mm 478732 |
| 9 | Dr.S.Radha Associate Professor / CSE | Member | 6 00 John |
| 10 | Mr.G.Moheshkumar Assistant Professor / CSE | Member | a solo holasta |
| 11 | Mr. J. Karthikeyan, Executive Director, Smartificia Technology Private Limited, Colmbatore | Alumnus | Attended through Google Meet |

III MINUTES OF THE MEETING

The Board of Studies Meeting was held on 07.05.2022 at 02.30 p.m. through Blended Mode. The meeting began with the welcome address by the Chairman of BoS / CSE Dr.M.Sakthivel. Then all the points of agenda was taken up for discussion.

After detailed discussion, the following correction has been carried out:

19CSPX27 - Mobile Applications and Services under Professional Elective - III Courses, the subject title is changed into 19CSPX27 - Mobile Application Development.

The following suggestion is given by the Board of Studies members with regard to curriculum and syllabi of B.E. - Computer Science and Engineering (Cyber Security) under Regulations - 2019.

Latest publication of Text Books and Reference Books may be incorporated.

SEC-Fifth BoS - 7th May 2022

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Then the following agenda items are resolved by the Board of Studies.

To discuss and approve the Curriculum from I to VIII Semesters for the Item 5.1 proposed new programme B.E. - Computer Science and Engineering (Cyber Security) under Regulations - 2019 from the academic year 2022 -23 onwards.

> Resolved and approve the Curriculum from I to VIII Semesters for the proposed new programme B.E. - Computer Science and Engineering (Cyber Security) under Regulations - 2019 from the academic year 2022 - 23 onwards as in Annexure I.

To discuss and approve the Syllabi from I to IV Semesters for B.E. -Item 5.2 Science Engineering (Cyber Security) Computer and Regulations - 2019.

Resolved and approve the Syllabi from I to IV Semesters for B.E.-Computer Science and Engineering (Cyber Security) under Regulation-2019 as in Annexure I.

- Item 5.3 To consider and approve curriculum and syllabi for Minor Degree/Honours to be offered in B.E. - Computer Science and Engineering under Regulations - 2019.
 - Specialization in Cyber Security as Honours for B.E. Computer Science and Engineering and as minor degree for other BE. programmes
 - Specialization in Artificial Intelligence and Machine Learning as Honours B.E. - Computer Science and Engineering and as minor degree for other B.E. programmes.

SEC-Emin Boo - 7th May 2022

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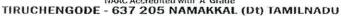


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Resolved to approve the curriculum and syllabi for Minor Degree/Honours to be offered by the Department of Computer Science and Engineering for B.E. Programmes under Regulations – 2019.

- Cyber Security
- Artificial Intelligence and Machine Learning

Specialization in Cyber Security / Artificial Intelligence and Machine Learning as Honours for B.E. – Computer Science and Engineering and as minor degree for other B.E. Programmes as in Annexure II.

This course will be offered with the approval of Anna University, Chennai.

Item 5.4 To consider and approve the changes in Course Objectives and Course Outcomes of the following courses as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations - 2019.

Professional Core (PC) Courses

- 19GEE101 Computer Fundamentals and Python Programming
- 19CSE201 C Programming
- 19CST301 Data Structures
- 19CST302 Computer Organization and Architecture
- 19CSE301 Object Oriented Programming
- 190ST302 Programming in C and C++
- 19CST303 Data Structures using C
- 19CST402 Operating Systems
- 190SE401 Database Management Systems
- 190ST502 Theory of Computation

SEC-Fifth BoS - 7 May 2022

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19CST503 - Resource Management Techniques

19EEC501 - Quantitative Aptitude Learning

19CST602 - Compiler Design

19CSPX15 - Graph Theory and its Applications

Resolved to approve the changes in Course Objectives and Course Outcomes in the above Professional Core (PC) Courses as per the Revised Blooms Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations - 2019 as in Annexure III.

Item 5.5 To consider and approve to add one of the trending Professional Elective courses under Regulations - 2019 in addition to the existing professional elective courses from the academic year 2022 - 23 onwards:

Professional Elective Courses

- 19CSPX25 Data Science has been added as one of the elective in the Sixth semester under Professional Elective – I courses.
- 2. 19CSPX26 Optimization Techniques has been added as one of the Elective in the seventh semester under Professional Elective – Il courses
- 3. 19CSPX27 Mobile Application Development has been added as one of the elective in the Eighth semester under Professional Elective - III courses.

Resolved to approve the addition of the Professional Elective (PE) Courses under Regulations - 2019 from the academic year 2022 - 23 onwards as in Annexure IV.

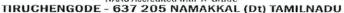
To consider and approve the Minor Revision / Addition in the Syllabus of the Item 5.6 following course under Regulations-2019 from the academic year 2022 - 23 onwards:

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Professional Core (PC) Courses

- The following change was carried out in the First semester subject entitled
 19GEE101 Computer Fundamentals and Python Programming
 - One Experiment has been included in addition to the existing 10 Experiments.
- 2. The following change was carried out in the Second semester subject entitled 19CSE201 C Programming
 - One Experiment has been included in addition to the existing 11 Experiments.
- 3. The following change was carried out in the Third semester subject entitled 19CSE301 Object Oriented Programming
 - One Experiment has been included in addition to the existing 8
 Experiments.
- 4. The following change was carried out in the Third semester subject which is offered to EEE Department entitled 19CSE302- Programming in C and C++.
 - One Experiment has been included in addition to the existing 11 Experiments.
- 5. The following change was carried out in the Third semester subject which is offered to ECE Department entitled 19CSE303- Data Structures using C.
 - One Experiment has been included in addition to the existing 12 Experiments.
- The following change was carried out in the Fourth semester subject entitled
 19CSE401 Database Management Systems
 - One Experiment has been included in addition to the existing 10 Experiments.
- 7 The following change was carried out in the Fifth semester subject entitled 19CSE501 - Computer Networks

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- One Experiment has been included in addition to the existing 8 Experiments.
- 8. The following change was carried out in the Fifth semester subject entitled 19CSE502 - Object Oriented Analysis and Design
 - One Experiment has been included in addition to the existing 8 Experiments.
- 9. The following change was carried out in the Sixth semester subject entitled 19CSE601 - Mobile Computing
 - One Experiment has been included in addition to the existing 7 Experiments.
- 10. The following changes were carried out in the Sixth semester subject entitled
- . 19CSE602 Internet Programming
 - One Experiment has been included in addition to the existing 9 Experiments
- 11. The following change was carried out in the Seventh semester subject entitled 19CSE701 - Cryptography and Network Security
 - One Experiment has been included in addition to the existing 9 Experiments.
- 12. The following change was carried out in the Seventh semester subject entitled 19CSE702 - Cloud Computing
 - One Experiment has been included in addition to the existing 7 Experiments.

The Board of Studies Members accepted the above - said points and resolved to approve the Minor Revision / Addition in the Syllabus of the Professional Core (PC) Courses under Regulations - 2019 from the academic year 2022-2023 onwards as in Annexure V.

SEC-Fifth BoS - 7th May 2022

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To consider and approve the Minor Revision / Addition in the guidelines for Item 5.7 the course 21PEE101 - Research Paper Writing and Seminar for M.E. -Computer Science and Engineering Programme under Regulations - 2021 through Choice Based Credit System from the academic year 2022 - 23 onwards.

> Resolved to approve the Minor Revision / Addition in the guidelines for the course 21PEE101 - Research Paper Writing and Seminar for M.E. -Computer Science and Engineering Programme under Regulations - 2021 through Choice Based Credit System from the academic year 2022 - 23 onwards as in Annexure VI.

Any other points with the permission of the Chairman. Item 5. Nil

Professor Dr.B.Sujatha, Member of BoS / CSE proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success. The meeting concluded by 03.45 p.m.

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The Audio and Video of the whole Meeting has Recorded

(Dr.M.SAKTHIVEL) Chairman (BoS/CSE)

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7th May, 2022

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING FIFTH BOARD OF STUDIES MEETING

I. AGENDA

- Item 5.1 To discuss and approve the Curriculum and Syllabi for Minor Degree / Honours to be offered by the Department of Electronics and Communication Engineering for B.E programmes under Regulations -2019 through Choice Based Credit System from the academic year 2022-23 onwards.
 - Specialization in Internet of Things as Honours for B.E. -Electronics and Communication Engineering and as minor degree for other B.E programmes.
 - Specialization in Robotics as Honours for B.E. Electronics and Communication Engineering and as minor degree for other B.E programmes.
- Item 5.2 To consider and approve the Changes in Course objectives and Course outcomes of the following courses as per the Revised Blooms Taxonomy to correlate the Course Articulation matrix formulation in B.E.-Electronics and Communication Engineering programme syllabi under Regulations -2019 through Choice Based Credit system.





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Professional Core (PC) and Professional Elective Courses

| SI.No | Course Code | Name of the Subject | |
|-------|----------------|---|--|
| 1 | 19ECE201 | Electronic Devices | |
| 2 | 19MAT301 | Transforms and Partial Differential Equations | |
| 3 | 19ECT301 | Signals and Systems | |
| 4 | 19ECE301 | Digital Electronics | |
| 5 | 19ECE302 | Electronic Circuits | |
| 6 | 19CSE303 | Data structures using C | |
| 7 | 19MAT402 | Probability and Random Processes | |
| 8 | 19ECT401 | Electromagnetic Fields | |
| 9 | 19EET403 | Control Systems Engineering | |
| 10 | 19ECE401 | Communication Theory | |
| 11 | 19ECE402 | Linear Integrated Circuits | |
| 12 | 19ECT501 | Transmission Lines and Waveguides | |
| 13 | 19ECT502 | Soft Computing | |
| 14 | 19ECE502 | Digital Signal Processing | |
| 15 | 19ECE503 | Microprocessor and Microcontroller | |
| 16 | 19ECT601 | Antennas and Wave Propagation | |
| 17 | 19ECT602 | Wireless Communication | |
| 18 | 19ECT603 | Communication Networks | |
| 19 | 19ECE601 | VLSI Design | |
| 20 | 19ECE602 | Digital Communication | |
| 21 | 19ECE701 | Microwave Engineering | |
| 22 | 19ECE702 | Embedded Systems | |
| 23 | 19ECPX01 | Medical Electronics | |









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| 24 | 19ECPX10 | Wireless Networks | |
|----|----------|------------------------------------|--|
| 25 | 19ECPX18 | Professional Ethics in Engineering | |
| 26 | 19ECPX20 | Satellite Communication | |

- Item 5.3 To consider and approve to add one new subject in Professional Elective courses under Regulations 2019 in addition to the existing professional elective courses from the academic year 2022-2023 onwards.
 - Professional Elective I Course
 (19ECPX25) Advanced Microcontrollers
 - Professional Elective Il Course
 (19ECPX26) Advanced Digital Design
 - Professional Elective III Course
 (19ECPX27) Computer Vision
 - Professional Elective IV Course
 (19ECPX28) Mixed Signal IC Design
- Item 5.4 To Consider and approve the minor Revision / Addition in the Syllabus of the following courses under Regulations-2019 from the academic year 2022-2023 onwards.

Professional Core (PC) Courses

- (19ECE201) Electronic Devices
- (19ECE301) Digital Electronics
- (19ECE302) Electronic Circuits
- (19CSE 303) Data Structures using C
- (19ECE 401) Communication Theory
- (19ECE402) Linear Integrated Circuits









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 - (19ECE502) Digital Signal Processing
 - (19ECE503) Microprocessor and Microcontroller
 - (19ECE601) VLSI Design
 - (19ECE602) Digital Communication
 - (19ECE701) Microwave Engineering
 - (19ECE702) Embedded Systems
- To consider and approve the Changes in the following Professional Item 5.5 Electives and Employability Enhancement course code of M.E.-VLSI Design programme under Regulations - 2021 through Choice Based Credit System.

Professional Elective Courses

| SI.N | Existing | Revised | Name of the Subject |
|------|-------------|-------------|--|
| o | Course Code | Course Code | |
| 1 | 21PVPX01 | 21PVP101 | Low Power VLSI Design |
| 2 | 21PVPX02 | 21PVP102 | DSP Integrated Circuits |
| 3 | 21PVPX03 | 21PVP103 | Physical Design of VLSI Circuits |
| 4 | 21PVPX04 | 21PVP104 | Advanced Computer Architecture and parallel Processing |
| 5 | 21PVPX05 | 21PVP105 | VLSI Technology |
| 6 | 21PVPX06 | 21PVP201 | VLSI Signal Processing |
| 7 | 21PVPX07 | 21PVP202 | Reconfigurable Architectures |
| 8 | 21PVPX08 | 21PVP203 | Design of Analog Filters and Signal Conditioning Circuits |
| 9 | 21PVPX09 | 21PVP204 | System on Chip Design |









| 10 | 21PVPX10 | 21PVP205 | Security Solutions in VLSI | |
|----|----------|------------|----------------------------------|--|
| 11 | 21PVPX11 | 21PVP206 | Design of Semiconductor | |
| | | 211 11 200 | Memories | |
| 12 | 21PVPX12 | 21PVP207 | Scripting Languages for VLSI | |
| 13 | 21PVPX13 | 21PVP208 | Networks on Chip | |
| 14 | 21PVPX14 | 21PVP209 | Signal Integrity for High | |
| | | | SpeedDesign | |
| 15 | 21PVPX15 | 21PVP210 | DSP Processor Architecture and | |
| | | | Programming | |
| 16 | 21PVPX16 | 21PVP301 | Mixed Signal VLSI Design | |
| 17 | 21PVPX17 | 21PVP302 | Embedded System Design | |
| 18 | 21PVPX18 | 21PVP303 | Soft Computing and Optimization | |
| | | | Techniques | |
| 19 | 21PVPX19 | 21PVP304 | VLSI for Biomedical Systems | |
| 20 | 21PVPX20 | 21PVP305 | RF IC Design | |
| 21 | 21PVPX21 | 21PVP306 | Hardware Verification Techniques | |
| 22 | 21PVPX22 | 21PVP307 | VLSI for Wireless Communication | |
| 23 | 21PVPX23 | 21PVP308 | ASIC Design | |
| 24 | 21PVPX24 | 21PVP309 | Nano Scale Devices | |
| 25 | 21PVPX25 | 21PVP310 | IP based VLSI Design | |
| 26 | 21PVPX26 | 21PVP311 | VLSI for IoT Systems | |
| 27 | 21PVPX27 | 21PVP312 | VLSI Architecture for Image and | |
| | | | Video Processing | |
| 28 | 21PVPX28 | 21PVP313 | Hardware – Software Co- | |
| 29 | 21PVPX29 | 21PVP314 | Design | |
| | | | Selected Topics in IC Design | |
| 30 | 21PVPX30 | 21PVP315 | MEMS and NEMS | |





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Employability Enhancement Courses

| SI. | Existing | Revised | Name of the Subject | |
|-----|-------------|-------------|------------------------------------|--|
| No | Course Code | Course Code | | |
| 1 | 21PVEC01 | 21PEE101 | Research Paper Writing and Seminar | |
| 2 | 21PVJ301 | 21PEE301 | Project Work Phase - I | |
| 3 | 21PVJ401 | 21PEE401 | Project Work Phase - II | |

Item 5.6 To consider and approve the Changes in the guidelines of the course 21PEE101- Research Paper Writing and Seminar for M.E.-VLSI Design programme under Regulations – 2021 through Choice Based Credit System from the academic year 2022-23 onwards.

Item 5.7 Any other points by the permission of the Chairman.

II. LIST OF MEMBERS ATTENDED

The Fifth Board of Studies Meeting for the Academic year 2022-2023 of the Department of Electronics and Communication Engineering held on 07.05.2022 at 2.30p.m. through blended mode. All the members have joined the meeting through Google Meet. Besides, the internal members have present in the college while conducting the blended mode meeting.





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The following Members were attended the meeting.

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|---|----------------------------|---------------------------------|
| 1 | Dr. C.Aarthi Professor and Head/ECE Sengunthar Engineering College. | Chairman | Organia Jan |
| 2 | Dr. M. Santhanalakshmi AsP/ECE, PSG College of Technology, Coimbatore | University Nominee | Attended through Google Meet |
| 3 | Dr. S. Dhanalakshmi Professor / ECE SRM IST, Chennai | External Subject Expert | Attended through Google Meet |
| 4 | Dr. P. Anandan Professor / ECE Vel Tech Rangarajan DrSagunthala R & D Institute of Science and Technology, Chennai. | External Subject Expert | Attended through Google Meet |
| 5 | Dr. A. Athif Shah Managing Director ABE Semiconductor Designs Chennai. | Industry Expert | Attended through Google Meet |
| 6 | Dr. P. Ramesh Kumar Professor / ECE | Member | Skyll Man 15/22 |
| 7 | Mr. A. Rahul Assistant Professor / ECE | Member | out 15/22 |
| 8 | Mr. P. Gopinath Assistant Professor / ECE | Member | A 3/1/22 |
| 9 | Mr. P. Sivasankaran Assistant Professor / ECE | Member | 05215129 |
| 10 | Mr.M.Arunkumar Assistant Professor / ECE | Member | U. Dillegelia |
| 11 | Mr. T. Sabarinathan, Senior Consultant, Infosys Bangalore. | Alumnus | Attended through Google Meet |



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III MINUTES OF THE MEETING

The Board of Studies Meeting was held on 07.05.2021 at 02.30 p.m. through Blended Mode in ECE DSP Lab. The meeting began with the welcome address by the Chairman of BoS / ECE, Dr.C.Aarthi. Then all the points of agenda were taken up for discussion and after detailed discussion, the following resolutions were passed.

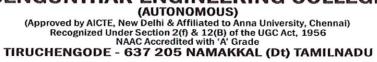
- To discuss and approve the Curriculum and Syllabi for Minor Degree / Item 5.1 Honors courses to be offered by the Department of Electronics and Communication Engineering for B.E programmes under Regulations – 2019 through Choice Based Credit System from the academic year 2022-23 onwards.
 - Specialization in Internet of Things as Honours for B.E. -Electronics and Communication Engineering and as minor degree for other B.E programmes.
 - Specialization in Robotics as Honours for B.E. Electronics and Communication Engineering and as minor degree for other B.E programmes.

Resolved to approve the curriculum and syllabi for Minor Degree / Honours courses to be offered by the Electronics and Communication Engineering for B.E. programmes under Regulations - 2019 through Choice Based Credit System from the academic year 2022-23 onwards.

Specialization in Internet of Things / Robotics as Honours for B.E. -Electronics and Communication Engineering and as minor degree for other B.E. programmes as in Annexure I.









Item 5.2 To consider and approve the Changes in Course objectives and Course outcomes of the following courses as per the Revised Blooms Taxonomy to correlate the Course Articulation matrix formulation in B.E.-Electronics and Communication Engineering programme syllabi under Regulations –2019 through Choice Based Credit system.

Professional Core (PC) Courses

| SI.No | Course Code | Name of the Subject | |
|-------|----------------|---|--|
| 1 | 19ECE201 | Electronic Devices | |
| 2 | 19MAT301 | Transforms and Partial Differential Equations | |
| 3 | 19ECT301 | Signals and Systems | |
| 4 | 19ECE301 | Digital Electronics | |
| 5 | 19ECE302 | Electronic Circuits | |
| 6 | 19CSE303 | Data structures using C | |
| 7 | 19MAT402 | Probability and Random Processes | |
| 8 | 19ECT401 | Electromagnetic Fields | |
| 9 | 19EET403 | Control Systems Engineering | |
| 10 | 19ECE401 | Communication Theory | |
| 11 | 19ECE402 | Linear Integrated Circuits | |
| 12 | 19ECT501 | Transmission Lines and Waveguides | |
| 13 | 19ECT502 | Soft Computing | |
| 14 | 19ECE502 | Digital Signal Processing | |
| 15 | 19ECE503 | Microprocessor and Microcontroller | |
| 16 | 19ECT601 | Antennas and Wave Propagation | |



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| 17 | 19ECT602 | Wireless Communication | |
|----|----------|------------------------------------|--|
| 18 | 19ECT603 | Communication Networks | |
| 19 | 19ECE601 | VLSI Design | |
| 20 | 19ECE602 | Digital Communication | |
| 21 | 19ECE701 | Microwave Engineering | |
| 22 | 19ECE702 | Embedded Systems | |
| 23 | 19ECPX01 | Medical Electronics | |
| 24 | 19ECPX10 | Wireless Networks | |
| 25 | 19ECPX18 | Professional Ethics in Engineering | |
| 26 | 19ECPX20 | Satellite Communication | |

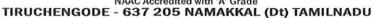
Resolved to approve the changes in Course Objectives and Course Outcomes of the mentioned subjects as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations - 2019 as in Annexure II.

- Item 5.3 To consider and approve to add one new subject in Professional Elective courses under Regulations - 2019 in addition to the existing professional elective courses from the academic year 2022-2023 onwards.
 - Professional Elective I Course (19ECPX25) Advanced Microcontrollers
 - **Professional Elective II Course** (19ECPX26) Advanced Digital Design
 - Professional Elective III Course (19ECPX27) Computer Vision





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Professional Elective – IV Course
 (19ECPX28) Mixed Signal IC Design

<u>Professional Elective Courses</u>

- (19ECPX25) Advanced Microcontrollers has been added as one of the electives in the fifth semester under Professional Elective – I courses.
- (19ECPX26) Advanced Digital Design has been added as one of the electives in the sixth semester under Professional Elective – II courses.
- (19ECPX27) Computer Vision has been added as one of the electives in the eighth semester under Professional Elective – III courses.
- (19ECPX28) Mixed Signal IC Design has been added as one of the electives in the eighth semester under Professional Elective – IV courses.

Resolved to approve the Addition of the Professional Elective (PE) Courses under Regulations - 2019 from the academic year 2022-2023 onwards as in Annexure III.

Item 5.4 To Consider and approve the minor Revision / Addition in the Syllabus of the following courses under Regulations-2019 from the academic year 2022-2023 onwards.

Professional Core (PC) Courses

- (19ECE201) Electronic Devices
- (19ECE301) Digital Electronics
- (19ECE302) Electronic Circuits
- (19CSE 303) Data Structures using C
- (19ECE 401) Communication Theory





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- (19ECE402) Linear Integrated Circuits
- (19ECE502) Digital Signal Processing
- (19ECE503) Microprocessor and Microcontroller
- (19ECE601) VLSI Design
- (19ECE602) Digital Communication
- (19ECE701) Microwave Engineering
- (19ECE702) Embedded Systems

Professional Core (PC) Courses

- 1. The following change was carried out in the second semester subject entitled (19ECE201) Electronic devices:
 - One Experiment has been included in addition to the existing 12 Experiments.
- 2. The following change was carried out in the third semester subject entitled (19ECE301) Digital Electronics:
 - One Experiment has been included in addition to the existing 10 Experiments.
- 3. The following change was carried out in the third semester subject entitled (19ECE302) Electronic Circuits:
 - One Experiment has been included in addition to the existing 12 Experiments.
- 4. The following change was carried out in the third semester subject entitled (19CSE401) Data Structures using C:
 - One Experiment has been included in addition to the existing 12 Experiments.
- 5. The following change was carried out in the fourth semester subject entitled (19ECE401) Communication Theory:





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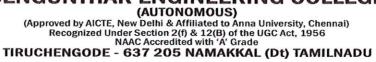




- One Experiment has been included in addition to the existing 12 Experiments.
- 6. The following change was carried out in the fourth semester subject entitled (19ECE402) Linear Integrated Circuits:
 - One Experiment has been included in addition to the existing 6 Experiments.
- 7. The following change was carried out in the fifth semester subject entitled (19ECE502) Digital Signal Processing:
 - One Experiment has been included in addition to the existing 11 Experiments.
- 8. The following change was carried out in the fifth semester subject entitled (19ECE503) Microprocessor and Microcontroller:
 - One Experiment has been included in addition to the existing 8 Experiments.
- 9. The following change was carried out in the sixth semester subject entitled (19ECE601) VLSI Design:
 - One Experiment has been included in addition to the existing 9 Experiments.
- 10. The following changes were carried out in the sixth semester subject entitled(19ECE602) Digital Communication:
 - One Experiment has been included in addition to the existing 8 Experiments.
- 11. The following change was carried out in the seventhsemester subject entitled (19ECE701) Microwave Engineering:
 - One Experiment has been included in addition to the existing 8 Experiments.









- 12. The following change was carried out in the seventh semester subject entitled (19ECE702) Embedded Systems:
 - One Experiment has been included in addition to the existing 11 Experiments.

The Board of Studies Members accepted the above-said points and resolved to approve the Minor Revision / Addition in the Syllabus of the Professional Core (PC) Courses under Regulations - 2019 from the academic year 2022-2023 onwards as in Annexure IV.

Item 5.5 To consider and approve the Changes in the following Professional Electives and Employability Enhancement course code of M.E.-VLSI Design programme under Regulations - 2021 through Choice Based Credit System.

Professional Elective Courses

| SI.N | Existing | Revised | Name of the Subject |
|------|-------------|-------------|---|
| o | Course Code | Course Code | |
| 1 | 21PVPX01 | 21PVP101 | Low Power VLSI Design |
| 2 | 21PVPX02 | 21PVP102 | DSP Integrated Circuits |
| 3 | 21PVPX03 | 21PVP103 | Physical Design of VLSI Circuits |
| 4 | 21PVPX04 | 21PVP104 | Advanced Computer Architecture and parallel Processing |
| 5 | 21PVPX05 | 21PVP105 | VLSI Technology |
| 6 | 21PVPX06 | 21PVP201 | VLSI Signal Processing |
| 7 | 21PVPX07 | 21PVP202 | Reconfigurable Architectures |
| 8 | 21PVPX08 | 21PVP203 | Design of Analog Filters and Signal Conditioning Circuits |







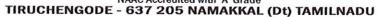


| 9 | 21PVPX09 | 21PVP204 | System on Chip Design | |
|----|-------------------|------------|-------------------------------------|--|
| 10 | 21PVPX10 | 21PVP205 | Security Solutions in VLSI | |
| 11 | 21PVPX11 | 21PVP206 | Design of Semiconductor Memories | |
| 12 | 21PVPX12 | 21PVP207 | Scripting Languages for VLSI | |
| 13 | 21PVPX13 | 21PVP208 | Networks on Chip | |
| 14 | 21PVPX14 | 21PVP209 | Signal Integrity for High Speed | |
| | 211 11 71 71 7 | 211 71 200 | Design | |
| 15 | 21PVPX15 | 21PVP210 | DSP Processor Architecture and | |
| | 211 11 110 | 211 11 210 | Programming | |
| 16 | 21PVPX16 | 21PVP301 | Mixed Signal VLSI Design | |
| 17 | 21PVPX17 | 21PVP302 | Embedded System Design | |
| 18 | 21PVPX18 | 21PVP303 | Soft Computing and Optimization | |
| | 211 11 7110 | 211 11 000 | Techniques | |
| 19 | 21PVPX19 | 21PVP304 | VLSI for Biomedical Systems | |
| 20 | 21PVPX20 | 21PVP305 | RF IC Design | |
| 21 | 21PVPX21 | 21PVP306 | Hardware Verification Techniques | |
| 22 | 21PVPX22 | 21PVP307 | VLSI for Wireless Communication | |
| 23 | 21PVPX23 | 21PVP308 | ASIC Design | |
| 24 | 21PVPX24 | 21PVP309 | Nano Scale Devices | |
| 25 | 21PVPX25 | 21PVP310 | IP based VLSI Design | |
| 26 | 21PVPX26 | 21PVP311 | VLSI for IoT Systems | |
| 27 | 21PVPX27 | 21PVP312 | VLSI Architecture for Image and | |
| | 21606727 21606312 | | Video Processing | |
| 28 | 21PVPX28 | 21PVP313 | Hardware – Software Co- | |
| 29 | 21PVPX29 | 21PVP314 | Design Selected Topics in IC Design | |
| | | | | |
| 30 | 21PVPX30 | 21PVP315 | MEMS and NEMS | |





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Employability Enhancement Courses

| SI. No | Existing Course Code | Revised Course Code | Name of the Subject | |
|-----------|-------------------------|------------------------|------------------------------------|--|
| 1 | 21PVEC01 | 21PEE101 | Research Paper Writing and Seminar | |
| 2 | 21PVJ301 | 21PEE301 | Project Work Phase - I | |
| 3 | 21PVJ401 | 21PEE401 | Project Work Phase - II | |

Resolved to approve the Changes in the Professional Electives and Employability Enhancement course code of M.E.-VLSI Design programme under Regulations – 2021 through Choice Based Credit System from the academic year 2022-23 onwards as in Annexure V.

Item 5.6 To consider and approve the Changes in the guidelines of the course 21PEE101- Research Paper Writing and Seminar for M.E.-VLSI Design programme under Regulations – 2021 through Choice Based Credit System from the academic year 2022-23 onwards.

Resolved to approve the Changes in the guidelines of the course 21PEE101- Research Paper Writing and Seminar for M.E.-VLSI Design programme under Regulations – 2021 through Choice Based Credit System from the academic year 2022-23 onwards as in Annexure VI.

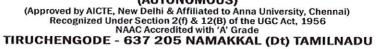
Item 5.7 Any other points by the permission of the Chairman.

Nil





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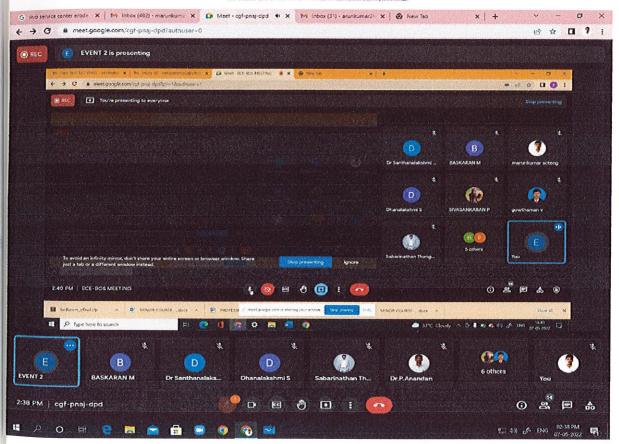


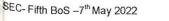


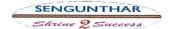


Professor Dr.P.Rameshkumar, Member of BoS / ECE proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success. The meeting concluded by 04.30p.m.

Glimpses of the meeting



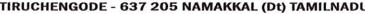






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The Audio and Video of the whole Meeting has Recorded.

(Dr.C.AARTHI) Chairman

(BoS/ECE)





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06 May, 2022

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FOURTH BOARD OF STUDIES MEETING

I. AGENDA

- 4.1 To consider and approve the changes in Course Objectives and Course Outcomes of the following courses as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations -2019:
 - 19EEC203 Technical Skills (Hands on training in Electrical and Electronics)
 - 19EEE301 Analog Electronics and Circuits
 - 19EET401 Electrical and Electronic Measurements
 - 19EET402 Generation, Transmission and Distribution
 - 19EEE402 Control Systems Engineering
- 4.2 To consider and approve the Minor Revision / Addition in the Syllabus of the following course under Regulations 2019 from the academic year 2022-2023 onwards:
 - 19EEC203 Technical Skills (Hands on training in Electrical and Electronics)
 - 19EEE501 Power Electronics and Applications
- 4.3 To consider and approve to include one professional Elective course in addition to the existing professional electives:
 - Professional Elective I Course
 19EEPX31 Automotive Electronics
 - Professional Elective Il Course
 19EEPX32 Introduction to Internet of things
 - Professional Elective III Course
 19EEPX33 Industrial Electrical Systems

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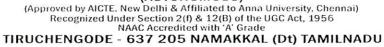
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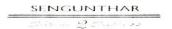




- **Professional Elective IV Course** 19EEPX34 - Energy Storage Devices
- Professional Elective V Course 19EEPX35 - Electrical CAD
- Professional Elective VI Course 19EEPX36 - Wearable Technologies
- 4.4 To consider and approve curriculum and syllabi for Minor/Honours degree to be offered by the Department of Electrical and Electronics Engineering for B.E. Programmes under Regulations - 2019.
 - Specialization in Electric Vehicles as Honours for B.E. Electrical and Electronics Engineering and as minor degree for other B.E programmes.
 - Specialization in Sensors Technology as Honours for B.E. Electrical and Electronics Engineering and as minor degree for other B.E programmes.
- 4.5 Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

The Fourth Board of Studies meeting for the Academic year 2021- 2022 of the Department of Electrical and Electronics Engineering held on 06.05.2022 at 2.00 p.m. through blended mode in the Power System simulation Lab with the presence of board members. The following Members attended the meeting.





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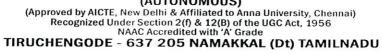
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| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|----------------------------|--|
| 1 | Dr.K.Umadevi, Professor and Head/EEE Sengunthar Engineering College, Tiruchengode. | Chairman | Linds |
| 2 | Dr.S.Dhanapal, Assistant Professor(Sr) /EEE, IRTT, Erode. | University Nominee | Attended through Google Meet |
| 3 | Dr.P.Rajalakshmy, ASP/EIE, Karunya University, Coimbatore. | External Subject Expert | Attended through Google Meet |
| 4 | Dr. S. Sujitha, AsP/EEE, New Horizon College of Engineering, Bengaluru. | External Subject Expert | Attended through Google Meet |
| 5 | Dr.S.Paramasivam Senior Manager, Donfoss Industries Pvt. Ltd., Chennai. | Industry Expert | Attended through Google Meet |
| 6 | Dr.P.Ponmurugan Associate Professor / EEE | Member | 26 616102 |
| 7 | Mrs.T.Gohila Associate Professor / EEE | Member | 80 616122 Ed Laborator G. Sund 615122 |
| 8 | Mr.G.Senthilrajan Associate Professor / EEE | Member | G. SWY WS122 |
| 9 | Mr.D.Sathiyaraj Assistant Professor / EEE | Member | the state of the s |
| 10 | Mr.V.Nanthakumar Assistant Professor / EEE | Member | Julion V. Navistro |
| 11 | Er.G.Gnanasekaran, Asst. Engineer, TANGEDCO Erode Town. | Alumnus | Attended through Google Meet |



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III MINUTES OF THE MEETING

The Chairman of BoS / EEE Dr.K.Umadevi welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following resolutions were passed.

To consider and approve the changes in Course Objectives and Course 4.1 Outcomes of the following courses as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations - 2019:

> 19EEC203 – Technical Skills (Hands on training in Electrical and Electronics)

19EEE301 – Analog Electronics and Circuits

19EET401 – Electrical and Electronic Measurements

19EET402 - Generation, Transmission and Distribution

19EEE402 – Control Systems Engineering

Resolved to approve the changes in Course Objectives and Course Outcomes in the above Courses as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations - 2019 as in Annexure I.

- 4.2 To consider and approve the Minor Revision / Addition in the Syllabus of the following course under Regulations - 2019 from the academic year 2022 - 2023 onwards:
 - 19EEC203 Technical Skills (Hands on training in Electrical and Electronics)
 - 19EEE501 Power Electronics and Applications





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TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

- 1. The following change was carried out in the second semester subject entitled 19EEC203 Technical Skills (Hands on training in Electrical and Electronics)
 - One Experiment has been included in addition to the existing 11 Experiments.
- 2. The following change was carried out in the fifth semester subject entitled 19EE501 - Power Electronics and Applications:
 - One Experiment has been included in addition to the existing 8
 Experiments.

The Board of Studies Members accepted the above-said points and resolved to approve the Minor Revision / Addition in the Syllabus of the Employability Enhancement Course (EEC) and Professional Core (PC) Course under Regulations - 2019 from the academic year 2022 - 2023 onwards as in Annexure II.

- 4.3. To consider and approve to include one Professional Elective Course in addition to the existing professional electives:
 - Professional Elective I Course
 19EEPX31 Automotive Electronics
 - Professional Elective Il Course
 19EEPX32 Introduction to Internet of things
 - Professional Elective III Course
 19EEPX33 Industrial Electrical Systems
 - Professional Elective IV Course
 19EEPX34 Energy Storage Devices
 - Professional Elective V Course
 19EEPX35 Electrical CAD
 - Professional Elective VI Course
 19EEPX36 Wearable Technologies







TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

Professional Elective Courses

- The following additional Professional Elective I course was carried out in the Fifth semester subject entitled 19EEPX31 – Automotive Electronics.
- The following additional Professional Elective II course was carried out in the sixth semester subject entitled 19EEPX32 - Introduction to Internet of things
- The following additional Professional Elective III course was carried out in the sixth semester subject entitled 19EEPX33 - Industrial Electrical Systems
- The following additional Professional Elective IV course was carried out in the seventh semester subject entitled 19EEPX34 – Energy Storage Devices
- The following additional Professional Elective V course was carried out in the Eighth semester subject entitled 19EEPX35 – Electrical CAD
- The following additional Professional Elective VI course was carried out in the Eighth semester subject entitled 19EEPX36 – Wearable Technologies

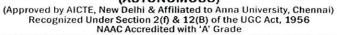
Resolved to approve to include of one Professional Elective Course in addition to the existing professional Electives as in Annexure III.

- 4.4 To consider and approve curriculum and syllabi for Minor/Honours degree to be offered by the Department of Electrical and Electronics Engineering for B.E. Programmes under Regulations – 2019.
 - Specialization in Electric Vehicles as Honours for B.E. Electrical and Electronics Engineering and as minor degree for other B.E. programmes
 - Specialization in Sensors Technology as Honours for B.E. Electrical and Electronics Engineering and as minor degree for other B.E. programmes

Resolved to approve the curriculum and syllabi for Minor/Honours degree to be offered by the Department of Electrical and Electronics Engineering for B.E. Programmes under Regulations – 2019.



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TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

- Electric Vehicles
- Sensors Technology

Specialisation in Electric Vehicles/ Sensors Technology as Honours for B.E. – Electrical and Electronics Engineering and as minor degree for other B.E programmes as in **Annexure IV**.

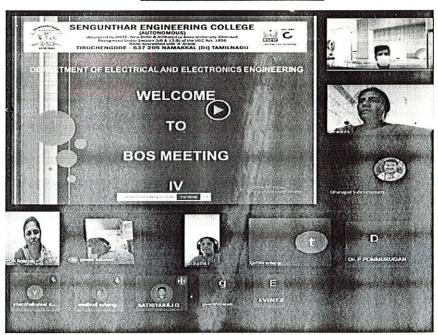
4.5 Any other points by the permission of the Chair.

Nil

Mrs, T.Gohila, Member of BoS / EEE proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The BoS meeting was concluded by 3.30 p.m.

Glimpses of the meeting



The Audio and Video of the whole meeting has been recorded.

Dr.K.Umadevi)

Chairman

(BoS/EEE)



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07 May, 2022

DEPARTMENT OF MECHANICAL ENGINEERING

FOURTH BOARD OF STUDIES MEETING

AGENDA

To consider and approve the changes in Course Objectives and Course 4.1 Outcomes of the following courses as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations-2019:

Professional Elective – Il Course

(19MEPX09) Renewable Energy Sources

Professional Elective - III Course

- (19MEPX12) Refrigeration and Air Conditioning
- To consider and approve the Minor Revision / Addition in the Syllabus of the 4.2 following course under Regulations-2019 from the academic year 2022-2023 onwards:

Professional Core (PC) Courses

- (19MEE301) Manufacturing Technology
- (19MEE302) Fluid Mechanics and Machinery
- (19MEE401) Thermal Engineering
- (19MEE402) Strength of Materials
- (19MEE403) Composite Materials
- (19MEE404) Manufacturing Technology-II
- (19MEE501) Heat and Mass Transfer
- (19MEE502) Metrology and Measurements
- (19MET503) Power Plant Engineering
- (19MEE601) CAD/CAM
- (19MEE602) Dynamics of Machinery
- (19MEE701) Mechatronics



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- To consider and approve to add one of the trending Professional Elective 4.3 courses under Regulations - 2019 in addition to the existing professional elective courses from the academic year 2022-2023 onwards:
 - Professional Elective I Course (19MEPX26) Hydraulics and Pneumatics
 - Professional Elective Il Course (19MEPX27) Welding Technology
 - Professional Elective III Course (19MEPX28) Non-Traditional Machining Techniques
 - Professional Elective IV Course (19MEPX29) Alternate Fuels
 - Professional Elective V Course (19MEPX30) Fuel Cells and Applications
- To consider and approve curriculum and syllabi for Minor Degree/Honours to 4.4 be offered by the Department of Mechanical Engineering for B.E. Programmes under Regulations - 2019.
 - Specialization in Industrial Safety Engineering as Honours for B.E. Mechanical Engineering and as minor degree for other B.E. programmes.
 - Specialization in 3D Printing as Honours for B.E. Mechanical Engineering and as minor degree for other B.E programmes.
- Any other points by the permission of the Chair. 4.5

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Fourth Board of Studies meeting for the Academic year 2021-2022 of the Department of Mechanical Engineering held on 07.05.2022 at 11.00 a.m. through blended mode in the Mechanical CAD Lab with the presence of board members. The following Members attended the meeting.

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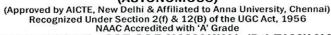




| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|---|----------------------------|---------------------------------|
| 1 | Dr.M.Selvakumar Professor and Head/ Mech Sengunthar Engineering College | Chairman | H. Sund 07/05/22 |
| 2 | Dr.M.Nataraj Professor and Principal, Government College of Engineering, Thanjavur | University Nominee | Attended through Google Meet |
| 3 | Dr.P.Ponnusamy Professor/Mechanical VIT Vellore, Chennai | External Subject Expert | Or si |
| 4 | Dr.M.Chandrasekaran Director/Mechanical Vels University, Pallavaram, Chennai | External Subject Expert | Attended through Google Meet |
| 5 | Er.V.C.Mahaadevan Manager, Renault Nissan Technology & Business Centre India Private Limited, Mahendra World city SEZ, Natham, Tamilnadu. | Industry Expert | Attended through Google Meet |
| 6 | Mr. N.Thiru Senthil Adhiban Assistant Professor / Mech | Member | NThus.22 |
| 7 | Mr. P.Jagadeeswaran Assistant Professor / Mech | Member | 1 - 115 22 |
| 8 | Mr.C.Mohankumar Assistant Professor / Mech | Member | Myrithers |
| 9 | Mr. S.Murugesan Assistant Professor / Mech | Member | wat str |
| 10 | Mr. N.Saravanan Assistant Professor / Mech | Member | N. 3 15122 |
| 11 | Mr. S.Mahendran AQUAJET Machine Tool Chennai - 95. | Alumnus | Attended through Google Meet |



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TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

III MINUTES OF THE MEETING

The Chairman of BoS / Mechanical Dr.M.Selvakumar welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following resolutions were passed.

To consider and approve the changes in Course Objectives and Course Outcomes 4.1 of the following courses as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations-2019:

Professional Elective - II Course

(19MEPX09) Renewable Energy Sources

Professional Elective - III Course

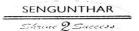
(19MEPX12) Refrigeration and Air Conditioning

Resolved to approve the changes in Course Objectives and Course Outcomes in the Professional Elective - II Course and Professional Elective - III Course as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations-2019 as in **Annexure I**.

4.2 To consider and approve the Minor Revision / Addition in the Syllabus of the following course under Regulations-2019 from the academic year 2022-2023 onwards:

Professional Core (PC) Courses

- (19MEE301) Manufacturing Technology
- (19MEE302) Fluid Mechanics and Machinery
- (19MEE401) Thermal Engineering
- (19MEE402) Strength of Materials
- (19MEE403) Composite Materials
- (19MEE404) Manufacturing Technology-II









- TIRUCHENGODE 637 205 NAMAKKAL (Dt) TAMILNADU
 - (19MEE501) Heat and Mass Transfer
 - (19MEE502) Metrology and Measurements
 - (19MET503) Power Plant Engineering
 - (19MEE601) CAD/CAM
 - (19MEE602) Dynamics of Machinery
 - (19MEE701) Mechatronics

Professional Core (PC) Courses

- 1. The following change was carried out in the third semester subject entitled (19MEE301) Manufacturing Technology:
 - One Experiment has been included in addition to the existing 6 Experiments.
- 2. The following change was carried out in the third semester subject entitled (19MEE302) Fluid Mechanics and Machinery:
 - One Experiment has been included in addition to the existing 6 Experiments.
- 3. The following change was carried out in the fourth semester subject entitled (19MEE401) Thermal Engineering:
 - One Experiment has been included in addition to the existing 6 Experiments.
- 4. The following change was carried out in the fourth semester subject entitled (19MEE402) Strength of Materials:
 - One Experiment has been included in addition to the existing 6 Experiments.
- 5. The following change was carried out in the fourth semester subject entitled (19MEE403) Composite Materials:
 - One Experiment has been included in addition to the existing 6 Experiments.





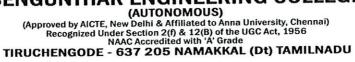
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- 6. The following change was carried out in the fourth semester subject entitled (19MEE404) Manufacturing Technology-II:
 - One Experiment has been included in addition to the existing 6 Experiments.
- 7. The following change was carried out in the fifth semester subject entitled (19MEE501) Heat and Mass Transfer:
 - One Experiment has been included in addition to the existing 6 Experiments.
- 8. The following change was carried out in the fifth semester subject entitled (19MEE502) Metrology and Measurements:
 - One Experiment has been included in addition to the existing 6 Experiments.
- 9. The following changes were carried out in the fifth semester subject entitled (19MET503) Power Plant Engineering:
 - In UNIT V Energy, Economic and Environmental Issues of power plant heading is changed as Economic and Environmental Issues of power plant and "Pollution control technologies including Waste Disposal Options for Coal and Nuclear Power Plants" topic is added.
- 10. The following change was carried out in the sixth semester subject entitled (19MEE601) CAD/CAM:
 - One Experiment has been included in addition to the existing 6 Experiments.
- 11. The following change was carried out in the sixth semester subject entitled (19MEE602) Dynamics of Machinery:
 - One Experiment has been included in addition to the existing 6 Experiments.







- 12. The following change was carried out in the seventh semester subject entitled (19MEE701) Mechatronics:
 - One Experiment has been included in addition to the existing 6 Experiments.

The Board of Studies Members accepted the above-said points and resolved to approve the Minor Revision / Addition in the Syllabus of the Professional Core (PC) Courses under Regulations-2019 from the academic year 2022-2023 onwards as in Annexure II.

- To consider and approve to add one of the trending Professional Elective courses 4.3. under Regulations - 2019 in addition to the existing professional elective courses from the academic year 2022-2023 onwards:
 - Professional Elective I Course (19MEPX26) Hydraulics and Pneumatics
 - Professional Elective Il Course (19MEPX27) Welding Technology
 - Professional Elective III Course (19MEPX28) Non-Traditional Machining Techniques
 - Professional Elective IV Course (19MEPX29) Alternate Fuels
 - Professional Elective V Course (19MEPX30) Fuel Cells and Applications

Professional Elective Courses

- 1. (19MEPX26) Hydraulics and Pneumatics has been added as one of the elective in the fifth semester under Professional Elective - I courses.
- 2. (19MEPX27) Welding Technology has been added as one of the elective in the sixth semester under Professional Elective - II courses.
- 3. (19MEPX28) Non-Traditional Machining Techniques has been added as one of the elective in the seventh semester under Professional Elective - III courses.
- (19MEPX29) Alternate Fuels has been added as one of the elective in the eighth semester under Professional Elective - IV courses.

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(19MEPX30) Fuel Cells and Applications has been added as one of the 5. elective in the eighth semester under Professional Elective – V courses.

Resolved to approve the Addition of the Professional Elective (PE) Courses under Regulations-2019 from the academic year 2022-2023 onwards as in Annexure III.

- To consider and approve curriculum and syllabi for Minor Degree/Honours to be 4.4 offered by the Department of Mechanical Engineering for B.E. Programmes under Regulations - 2019.
 - Specialization in Industrial Safety Engineering as Honours for B.E. - Mechanical Engineering and as minor degree for other B.E. programmes.
 - Specialization in 3D Printing as Honours for B.E. Mechanical Engineering and as minor degree for other B.E programmes.

Resolved to approve the curriculum and syllabi for Minor degree /Honours to be offered by the Department of Mechanical Engineering for B.E. Programmes under Regulations - 2019.

- Industrial Safety Engineering
- 3D Printing

Specialisation in Industrial Safety Engineering / 3D Printing as Honours for B.E. -Mechanical Engineering and as minor degree for other B.E programmes as in Annexure IV.

This course will be offered with the approval of Anna University, Chennai.

Any other points by the permission of the Chair. 4.5

Nil

Mr. P.Jagadeeswaran, Member of BoS / Mechanical proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The BoS meeting was concluded by 12.30 p.m.



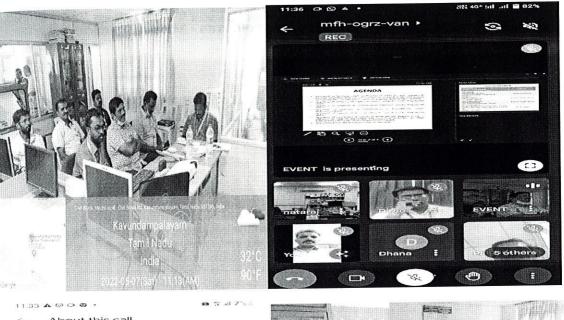
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Glimpses of the meeting







The Audio and Video of the whole meeting has recorded.

H. Swy criot22 (Dr.M.Selvakumar)

Chairman

(BoS/Mechanical)

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6th May, 2022

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU DEPARTMENT OF SCIENCE AND HUMANITIES

THIRD BOARD OF STUDIES MEETING

1. **AGENDA**

3.1 To consider and approve the amends in Course Objectives and Course Outcomes of the following courses as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations-2019:

Basic Sciences (BS) Courses

- (19PHE101) Engineering Physics
- (19PHT202) Solid State Physics and Nanoelectronic Devices
- (19PHT201) Physics of Materials
- (19MAT101) Engineering Mathematics I
- (19MAT201) Engineering Mathematics II
- (19MAT301) Transforms and Partial Differential Equations
- (19MAT401) Probability and Queueing Theory
- (19MAT402) Probability and Random Processes
- (19MAT403) Numerical Methods
- (19MAT404) Statistics and Numerical Methods
- (19CYE101) Engineering Chemistry
- (19CYT201) Environmental Science and Engineering

Humanities and Sciences (HS) Courses

- (19HST101) Communicative Techno English I
- (19HST201) Communicative Techno English II

Employability Enhancement Courses (EEC)

- (19EEC101) Life Skills for Engineers
- 3.2 To consider and approve the Minor Revision / Addition in the Syllabus of the following courses under Regulations-2019 from the academic year 2022-2023 onwards:

Basic Sciences (BS) Courses

- (19PHE101) Engineering Physics
- (19PHT202) Solid State Physics and Nanoelectronic Devices
- (19PHT201) Physics of Materials
- (19CYE101) Engineering Chemistry

Humanities and Sciences (Hs) Courses

- (19HST101) Communicative Techno English I
- (19HST201) Communicative Techno English II

Employability Enhancement Courses (EEC)

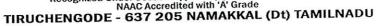
- (19EEC101) Life Skills for Engineers
- (19EEC301) Communication Skills
- 3.3 To consider and approve the NCC (National Cadet Corps) Air wing Curriculum and Syllabi under Regulations-2019 in UG program for the NCC Cadets as General Elective (GE) Courses amid credit points of 6.
- 3.4 Any other points by the permission of the Chair.





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LIST OF MEMBERS ATTENDED 11.

The Third meeting of Board of Studies of the Department of Science and Humanities held on 06.05.2022 at 11.00 a.m. in Physics Lab. The following Members attended the meeting.

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|----------------------------|-------------------------------|
| 1 | Dr. K. L. Palanisamy Professor and Head/S&H Sengunthar Engineering College. | Chairman | CSP ASS |
| 2 | Dr. K. Shankar Associate Professor / Mathematics, CEG Campus, Anna University, Chennai | University Nominee | Attended through Online |
| 3 | Dr. V. Rajasekaran Assistant Professor, (Sr)/Div. of English, VIT, Chennai-600127. | External Subject Expert | Attended through Online |
| 4 | Dr. R. Nandhakumar Associate Professor / Chemistry, Karunya Institute of Technology and Sciences, (Deemed to be University), Coimbatore. | External Subject Expert | Atlended through Online |
| 5 | Dr. M. Saminathan Managing Director, Muthuraman Laboratories, Erode. | Industry Expert | M. Saminala |
| 6 | Mr. A. Arutjothi Assistant Professor / Chemistry | Member | A-618mgn/0/5/22 |
| 7 | Mr. G. Ayyanar Assistant Professor / Mathematics | Member | Blowner, 5. 22 |



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| 8 | Mrs. S. Bhuvana Assistant Professor /English | Member | Pr Plabon |
|----|---|---------|----------------------------|
| 9 | Dr. K. Vignesh Assistant Professor /Physics | Member | Avijh 15122 |
| 10 | Mr. S. Sureshsugumar Assistant Professor /Mathematics | Member | 8 5 22 |
| 11 | Er. M. Prabhu Lead, Impiger Technologies Private Limited, Coimbatore | Alumnus | Attended through Online |

III MINUTES OF THE MEETING

The Chairman of BoS / S & H Dr. K.L. Palanisamy welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following resolutions were passed.

- 3.1 To consider and approve the amends in Course Objectives and Course Outcomes of the following courses as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations-2019:
 - Basic Sciences (BS) Courses
 - (19PHE101) Engineering Physics
 - (19PHT202) Solid State Physics and Nanoelectronic devices
 - · (19PHT201) Physics of Materials
 - (19MAT101) Engineering Mathematics I
 - (19MAT201) Engineering Mathematics II
 - (19MAT301) Transforms and Partial Differential Equations
 - (19MAT401) Probability and Queueing Theory
 - · (19MAT402) Probability and Random Processes
 - · (19MAT403) Numerical Methods
 - (19MAT404) Statistics and Numerical Methods
 - (19CYE101) Engineering Chemistry
 - (19CYT201) Environmental Science and Engineering

Humanities and Sciences (HS) Courses

- (19HST101) Communicative Techno English I
- (19HST201) Communicative Techno English II



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Employability Enhancement Courses (EEC)

(19EEC101) Life Skills for Engineers

Resolved to approve the changes in Course Objectives and Course Outcomes in the Basic Sciences (BS) Courses, Humanities and Sciences (HS) Courses and Employability Enhancement Courses (EEC) as per the Revised Bloom Taxonomy to correlate the Course Articulation Matrix Formulation under Regulations-2019 as in Annexure I.

To consider and approve the Minor Revision / Addition in the Syllabus of the following 3.2 courses under Regulations-2019 from the academic year 2022-2023 onwards:

Basic Sciences (BS) Courses

- (19PHE101) Engineering Physics
- (19PHT202) Solid State Physics and Nanoelectronic Devices
- · (19PHT201) Physics of Materials
- (19MAT101) Engineering Mathematics I
- (19MAT201) Engineering Mathematics II
- (19CYE101) Engineering Chemistry
- (19CYT201) Environmental Science and Engineering

Humanities and Sciences (Hs) Courses

- (19HST101) Communicative Techno English I
- (19HST201) Communicative Techno English II

Employability Enhancement Courses (EEC)

- (19EEC101) Life Skills for Engineers
- (19EEC301) Communication Skills

Basic Sciences (BS) Courses

- 1. The following changes were carried out in the first semester subject entitled (19PHE101) **Engineering Physics:**
 - Two Virtual Experiments (Simulation Labs) are added in addition to the existing eight Experiments.
 - E-resources have been changed.
 - 2. The following changes were carried out in the second semester subject entitled (19PHT202) Solid State Physics and Nanoelectronic Devices:
 - In UNIT II- Semiconducting Materials, the topic "Derivation of carrier concentration in n-type and p-type semiconductor is changed as Qualitative teaching.
 - E-resources have been changed









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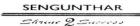
- 3. The following change was carried out in the second semester subject entitled (19PHT201) Physics of Materials:
 - E-resources have been changed
- 4. The following change was carried out in the first semester subject entitled (19CYE101) **Engineering Chemistry**
 - One Experiment has been included in addition to the existing 10 Experiments.

Humanities and Sciences (Hs) Courses

- 1. The following changes were carried out in the first semester subject entitled "Communicative Techno English-I" (19HST101):
 - Under Unit II: Grammar The topics types of questions and impersonal passive voices have been removed. Punctuations and single line definition have been included.
 - In Unit IV: Language Enhancement through Speaking the topic name debate discussion has been changed as expressing attitudes and opinions in debate discussion.
- 2. The following changes were carried out in the Second semester subject entitled "Communicative Techno English-II" (19HST201):
 - Under Unit I: Grammar- The topic impersonal passive voice is included.
 - In Unit II: Language Enhancement through Listening and Reading Intonation and reading short stories have been removed. Listening to podcast, listening to motivational talks have been added.
 - In Unit V: Speaking- The topic Role play is included.

Employability Enhancement Courses (EEC)

1. The following revisions are made in the first semester subject entitled "Life Skills for Engineers" (19EEC101).





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- In Unit V Leadership and Universal Human Values The contents of the unit have been changed as Leadership, Levels of Leadership, Making of a leader, Types of leadership, Universal Human Values: Non-Violence - Righteousness - Peace - Service - Renunciation.
- 2. The following changes were made in the subject entitled "Communication Skills" (19EEC301):
 - In Unit II- Listening The topic Listening and note taking has been removed and Listening to broadcast, Messages, Announcements have been included.
 - In guidelines for conduction assessments as per Regulations 2019 the Power Point Presentation activity is also included under the award of Continuous Internal Assessments.

The Board of Studies Members accepted the above-said points and resolved to approve the Minor Revision / Addition in the Syllabus of the Basic Sciences (BS) Courses, Humanities and Sciences (HS) Courses and Employability Enhancement Courses (EEC) under Regulations-2019 from the academic year 2022-2023 onwards as in Annexure II.

3.3 To consider and approve the NCC (National Cadet Corps) Air wing Curriculum and Syllabi under Regulations-2019 in UG program for the NCC Cadets as General Elective (GE) Courses amid credit points of 6.

Resolved to approve the NCC (National Cadet Corps) Curriculum and Syllabi under Regulations - 2019 in UG program for the NCC Cadets as General Elective (GE) Courses amid credit points of 6 as in **Annexure III**.

3.4 Any other points by the permission of the Chair.

Nil

Mrs. S.Bhuvana, Member of BoS / S&H proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The meeting was concluded by 12.30 p.m.





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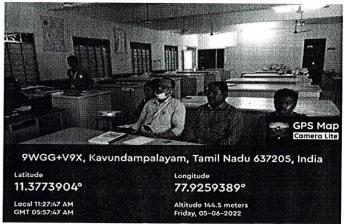
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Glimpses of the meeting





The audio and video of the meeting has been recorded.

(Dr.K.L.Palanisamy) Chairman

(BoS/S&H)