

THIAGARAJAR COLLEGE OF ENGINEERING: MADURAI 625 015
(An Autonomous Institution Affiliated to Anna University)

Minutes of the Sixtieth Meeting of Academic Council

The Sixtieth meeting of Academic Council was held on 25th July 2020, Saturday at 10.30 AM in Online Mode under the Chairmanship of Dr.S.Mercy Shalinie, Principal i/c. The following members were present.

1.	Dr.N.Vedachalam	ISRO Distinguished Professor, ISRO, Trivandrum
2.	Mr. M.V. Ramana Murthy	Director & Head, R&D Operations, Ericsson R&D, Bengaluru
3.	Dr.Rajeev Sukumaran	Senior Advisor, Teaching Learning Centre, IIT Madras
4.	Dr.R.Vasudevan	Dean, Co-curricular and Extracurricular Activities
5.	Dr.N.Kamaraj	Dean, Students and Head, Dept. of Electrical and Electronics Engg.
6.	Dr.M.Palaninatha Raja	Dean, Planning & Admin. and Head, Dept. of Mechatronics
7.	Dr.K.Chockalingam	Registrar and Head, Dept. of Mechanical Engineering
8.	Dr.S.Baskar	Dean (Research and Development)
9.	Dr.S.J. Thiruvengadam	Dean (Academic Process) and Member Secretary
10.	Dr.T. Velrajan	Head, Dept. of Civil Engineering
11.	Dr.S.Rajaram	Head, Dept. of Electronics and Communication Engineering
12.	Dr.P.Chitra	Head, Dept. of Computer Science and Engineering
13.	Dr.C.Deisy	Head, Dept. of Information Technology
14.	Dr.S.Jeyabharathi	Head, Dept. of Mathematics
15.	Dr.M.Mahendran	Head, Dept. of Physics
16.	Dr.M.Kottaisamy	Head, Dept of Chemistry
17.	Dr.Jinu Loueshidha Kitchley	Head, Dept. of Architecture
18.	Dr.S.Parthasarathy	Head, Dept. of Computer Applications and AMCS
19.	Mr.S.Sivakumar	Controller of Examinations
20.	Dr.T.Baskaran	Professor (CAS), Dept. of Civil Engineering
21.	Dr. PL.K.Palaniappan	Professor (CAS), Dept. of Mechanical Engineering
22.	Dr.D.Kavitha	Assistant Professor, Dept. of Elect. & Electronics Engg.
23.	Dr.V.R.Venkatasubramani	Assistant Professor, Dept. of Electronics & Commn. Engg
24.	Dr.B.Subbulakshmi	Assistant Professor, Dept. of Computer Science and Engg.
25.	Dr.S.Pudumalar	Assistant Professor, Dept. of Information Technology
26.	Dr.S.Vijayalakshmi	Professor (CAS), Dept. of Computer Applications
27.	Dr. G.Kanagaraj	Associate Professor, Dept. of Mechatronics
28.	Dr. G.Jothilakshmi	Associate Professor, Dept of Mathematics
29.	Dr.A.L.Subramanian	Assistant Professor, Department of Physics
30.	Dr.S.Rajkumar	Assistant Professor, Department of Chemistry
31.	Dr.I.Chandramathy	Professor, Dept. of Architecture

The following members had expressed their inability to attend the meeting due to their pre-occupation.

1.	Dr.D.K.Subramanian	Former Professor, Indian Institute of Science, Bengaluru
2.	Mr.A.M.Rafeek	Special Officer, CDC, DTE, Chennai
3.	Dr.V.Chelladurai	Principal, Coimbatore Institute of Technology, Coimbatore

The Agenda for the meeting:

- To consider the business brought forward by the Boards of Studies and by the Standing Committee of the Academic Council.
- To discuss any other matter pertaining to the academic activities of the college.

60:01 To confirm the minutes of the 59th meeting of the Academic Council held on 07.12.2019.

Resolved to confirm the minutes of the 59th meeting of the academic council held on 7th December 2019 as there were no comments on the minutes.

60:02 To review the action taken on the Minutes of the 59th meeting held on 07.12.2019.

The Chairman presented the actions taken on the suggestions made during the 60th Meeting of the Academic Council. The Council resolved to ratify the actions taken as presented and accepted the time requested for implementation of few suggestions. .

60:03 To consider the recommendations of the Board of Studies of Civil Engineering to revise the syllabus for the course ‘18SE171 Structural Engineering Laboratory’ for M.E (Structural Engineering) Degree Programme as given in [Annexure-A](#).

Resolved to approve the revision of the syllabus for the course ‘18SE171 Structural Engineering Laboratory’ for M.E (Structural Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2020-21 onwards.

60:04 To consider the recommendations of the Board of Studies of Civil Engineering to revise the syllabus for the courses ‘18EN161 Physico-chemical Treatment System’ and ‘18EN171 Environmental Engineering Laboratory’ and to introduce the course ‘18EN360 Environmental Impact and Risk Assessment’ for M.E. (Environmental Engineering) Degree Programme as given in [Annexure-B](#).

Resolved to approve the revision of the syllabus for the courses 18EN161 Physico-chemical Treatment System and 18EN171 Environmental Engineering Laboratory, the introduction of the course ‘18EN360 Environmental Impact and Risk Assessment’ for M.E. (Environmental Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2020-21 onwards.

60:05 To consider the recommendations of the Board of Studies of Civil Engineering to revise the Scheduling of Courses, Course of Study and Scheme of Examinations for B.E. (Civil Engineering) Degree Programme as given in [Annexure-C](#).

Resolved to approve the revision of the Scheduling of Courses, Course of Study and Scheme of Examinations for B.E. (Civil Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

60:06 To consider the recommendations of the Board of Studies of Mechanical Engineering to revise the Categorization of Courses for B.E. (Mechanical Engineering) Degree Programme as given in [Annexure-D.](#)

Resolved to approve the revision of the Categorization of Courses for B.E. (Mechanical Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

60:07 To consider the recommendations of the Board of Studies of Mechanical Engineering to introduce industry supported courses ‘18ME1A0 Aerospace Materials and Manufacturing, 18ME1B0 Product Life Cycle Management, 18ME1C0 Nondestructive Testing, 18ME1D0 Lean Six Sigma, , 18ME2A0 Product Quality Planning, 18ME2B0 Digital Twin Technology, 18ME2C0 System Engineering for Digital Factory and 18ME2D0 Quality Control of Welded Structures and 18ME2E0 Tribology in Engineering Applications for B.E. (Mechanical Engineering) Degree Programme as given in [Annexure-E.](#)

Resolved to approve the introduction of industry supported courses ‘18ME1A0 Aerospace Materials and Manufacturing, 18ME1B0 Product Life Cycle Management, 18ME1C0 Nondestructive Testing, 18ME1D0 Lean Six Sigma, , 18ME2A0 Product Quality Planning, 18ME2B0 Digital Twin Technology, 18ME2C0 System Engineering for Digital Factory and 18ME2D0 Quality Control of Welded Structures and 18ME2E0 Tribology in Engineering Applications for B.E. (Mechanical Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

60:08 To consider the recommendations of the Board of Studies of Mechanical Engineering to introduce an audit course ‘14MEAD0 Material Flow Mapping’ for B.E. (Mechanical Engineering) Degree Programme as given in [Annexure-E.](#)

Resolved to approve the introduction of the audit course ‘14MEAD0 Material Flow Mapping’ for B.E. (Mechanical Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2017-18 onwards.

60:09 To consider the recommendations of the Board of Studies of Mechanical Engineering to introduce an audit course ‘18MEAD0 Material Flow Mapping’ for B.E. (Mechanical Engineering) Degree Programme as given in [Annexure-G.](#)

Resolved to approve the introduction of the audit course ‘18MEAD0 Material Flow Mapping’ for B.E. (Mechanical Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:10** To consider the recommendations of the Board of Studies of Mechanical Engineering to revise the assessment pattern for the course ‘18ME580 Machining Practices Laboratory’ for B.E. (Mechanical Engineering) Degree Programme as given in [Annexure-H](#).

Resolved to approve the revision of the the assessment pattern for the course ‘18ME580 Machining Practices Laboratory’ for B.E. (Mechanical Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:11** To consider the recommendations of the Board of Studies of Mechanical Engineering to introduce the course ‘18MEEA0 Total Quality Management’ for B.E./B.Tech. Degree Programmes as given in [Annexure-I](#).

Resolved to approve the introduction of the course ‘18MEEA0 Total Quality Management’ for B.E./B.Tech. Degree Programmes as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:12** To consider the recommendations of the Board of Studies of Electrical and Electronics Engineering to revise the Categorization of Courses and Scheduling of Courses of B.E. (Electrical and Electronics Engineering) Degree Programme as given in [Annexure-J](#).

Resolved to approve the revision of the Categorization of Courses and Scheduling of Courses of B.E. (Electrical and Electronics Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:13** To consider the recommendations of the Board of Studies of Electrical and Electronics Engineering to introduce the syllabus for Programme Elective Courses for B.E. (Electrical and Electronics Engineering) Degree Programme as given in [Annexure-K](#).

Resolved to approve the introduction of the syllabus for Programme Elective Courses for B.E. (Electrical and Electronics Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:14** To consider the recommendations of the Board of Studies of Electrical and Electronics Engineering to introduce the Engineering Science Elective Course ‘18EEEA0 Internet of Things’ for B.E./B.Tech. Degree Programmes as given in [Annexure-L](#).

Resolved to approve the introduction of the Engineering Science Elective Course ‘18EEEA0 Internet of Things’ for B.E./B.Tech. Degree Programmes as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:15** To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to revise Categorization of Courses, Scheduling of Courses, Courses of Study and Scheme of Examinations for B.E. (Electronics and Communication Engineering) Degree Programme as given in [Annexure-M](#).

Resolved to approve the revision of the Categorization of Courses, Scheduling of Courses, Courses of Study and Scheme of Examinations for B.E. (Electronics and Communication Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:16** To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to introduce syllabus for Core and Programme Elective Courses for B.E. (Electronics and Communication Engineering) Degree Programme as given in [Annexure-N](#).

Resolved to approve the introduction of syllabus for Core and Programme Elective Courses for B.E. (Electronics and Communication Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:17** To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to introduce Engineering Science Elective Courses for B.E./B.Tech. Degree Programmes as given in [Annexure-O](#).

Resolved to approve the introduction of Engineering Science Elective Courses for B.E./B.Tech. Degree Programmes as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:18** To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to revise the syllabus for the course ‘18CN131 Wireless Cellular Networks’ for M.E. (Communication Systems) Degree Programme as given in [Annexure–P.](#)

Resolved to approve the revision of the syllabus for the course ‘18CN131 Wireless Cellular Networks’ for M.E. (Communication Systems) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2020-21 onwards.

- 60:19** To consider the recommendations of the Board of Studies of Computer Science and Engineering to revise the Categorization of Courses, Scheduling of Courses of B.E. (Computer Science and Engineering) Degree Programme as given in [Annexure–O.](#)

Resolved to approve the revision of the Categorization of Courses, Scheduling of Courses of B.E. (Computer Science and Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:20** To consider the recommendations of the Board of Studies of Computer Science and Engineering to introduce Industry Supported Courses for B.E. (Computer Science and Engineering) Degree Programme as given in [Annexure–R.](#)

Resolved to approve the introduction of Industry Supported Courses for B.E. (Computer Science and Engineering) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:21** To consider the recommendations of the Board of Studies of Computer Science and Engineering to introduce Engineering Science Elective Courses for B.E./B.Tech. Degree Programmes as given in [Annexure–S.](#)

Resolved to approve the introduction of Engineering Science Elective Courses for B.E./B.Tech. Degree Programmes as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:22** To consider the recommendations of the Board of Studies of Computer Science and Engineering to introduce the Categorization of Courses, Scheduling of Courses, Courses of Study, Scheme of Examinations and detailed Syllabus for first and second semesters of B.Tech. (Computer Science and Business Systems) Degree Programme as given in [Annexure – T.](#)

Resolved to approve the introduction of the Categorization of Courses, Scheduling of Courses, Courses of Study, Scheme of Examinations and detailed Syllabus for first and second semesters of B.Tech. (Computer Science and Business Systems) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2020-21 onwards.

- 60:23** To consider the recommendations of the Board of Studies of Information Technology to introduce Industry Supported Courses for B.Tech.(Information Technology) Degree Programme as given in [Annexure-U](#).

Resolved to approve the introduction of Industry Supported Courses for B.Tech.(Information Technology) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:24** To consider the recommendations of the Board of Studies of Information Technology to introduce Programme Elective Course '18ITPG0 Services Oriented Computing' for B.Tech.(Information Technology) Degree Programme as given in [Annexure-V](#).

Resolved to approve the introduction of the Programme Elective Course '18ITPG0 Services Oriented Computing' for B.Tech.(Information Technology) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:25** To consider the recommendations of the Board of Studies of Information Technology to revise the syllabus for the course '18IT361 IT Operations and Management' for B.Tech.(Information Technology) Degree Programme as given in [Annexure-W](#).

Resolved to approve the revision of the the syllabus for the course '18IT361 IT Operations and Management' for B.Tech.(Information Technology) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2019-20 onwards.

- 60:26** To consider the recommendations of the Board of Studies of Information Technology to introduce Engineering Science Elective course '18ITEA0 Data Analytics' for B.E./B.Tech. Degree Programmes as given in [Annexure-X](#).

Resolved to approve the introduction of Engineering Science Elective course '18ITEA0 Data Analytics' for B.E./B.Tech. Degree Programmes as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:27** To consider the recommendations of the Board of Studies of Information Technology to revise Categorization of Courses, PEO-Mission Mapping, Scheduling of Courses, Courses of Study, Scheme of Examinations, CO_PO_PSO Mapping, Programme Articulation Matrix and Expected Targets for Course Outcomes of B.Tech. (Information Technology) Degree Programme as given in [Annexure-Y](#).

Resolved to approve the revision of the Categorization of Courses, PEO-Mission Mapping, Scheduling of Courses, Courses of Study, Scheme of Examinations, CO_PO_PSO Mapping, Programme Articulation Matrix and Expected Targets for Course Outcomes of B.Tech. (Information Technology) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:28** To consider the recommendations of the Board of Studies of Information Technology to revise the assessment pattern of the courses of B.Tech. (Information Technology) Degree Programme as given in [Annexure-Z](#).

Resolved to approve the revision of the assessment pattern of the courses of B.Tech. (Information Technology) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:29** To consider the recommendations of the Board of Studies of Information Technology to introduce the programme articulation matrix of B.Tech. (Information Technology) Degree Programme as given in [Annexure-AA](#).

Resolved to approve the introduction of the programme articulation matrix of B.Tech. (Information Technology) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2014-15 onwards.

- 60:30** To consider the recommendations of the Board of Studies of Information Technology to introduce the expected targets and attainment of Course Outcomes of the courses of B.Tech.(Information Technology) Degree Programme as given in [Annexure-AB](#).

Resolved to approve the introduction of expected targets and attainment of Course Outcomes of the courses of B.Tech.(Information Technology) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2014-15 onwards.

- 60:31** To consider the recommendations of the Board of Studies of Mechatronics to introduce the scheduling of Courses and detailed syllabi for Programme Elective Courses of B.E. (Mechatronics) Degree Programme as given in [Annexure –AC](#).

Resolved to approve the introduction of the scheduling of Courses and detailed syllabi for Programme Elective Courses of B.E. (Mechatronics) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:32** To consider the recommendations of the Board of Studies of Mechatronics to introduce Industry Supported Courses ‘18MT1A0 Building Automation and Controls’ and ‘18MT2A0 Design for Environment Compatibility’ for B.E. (Mechatronics) Degree Programme as given in [Annexure –AD](#).

Resolved to approve the introduction of Industry Supported Courses ‘18MT1A0 Building Automation and Controls’ and ‘18MT2A0 Design for Environment Compatibility’ for B.E. (Mechatronics) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:33** To consider the recommendations of the Board of Studies of Mechatronics to introduce Engineering Science Elective Courses for B.E./B.Tech. Degree Programmes as given in [Annexure –AE](#).

Resolved to approve the introduction of Engineering Science Elective Courses for B.E./B.Tech. Degree Programmes as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

- 60:34** To consider the recommendations of the Board of Studies of Mechatronics to revise CO-PO Mapping and Expected Targets for Course Outcome for B.E. (Mechatronics) Degree Programme as given in [Annexure –AF](#).

Resolved to approve the revision of the CO-PO Mapping and Expected Targets for Course Outcome for B.E. (Mechatronics) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2014-15 onwards.

- 60:35** To consider the recommendations of the Board of Studies of Architecture to revise the Scheduling of Courses of B.Arch. Degree Programme as given in [Annexure –AG](#).

Resolved to approve the revision of the Scheduling of Courses of B.Arch. Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2017-18 onwards.

- 60:36** To consider the recommendations of the Board of Studies of Architecture to revise the B.Arch. Regulations in Clauses 5, 9 and 11 as given in [Annexure – AH](#)

Resolved to approve the revision of the Clauses 5, 9 and 11 in B.Arch. Regulations as presented in the Academic Council.

This comes into effect for the students passed out from the academic year 2017-18 onwards.

- 60:37** To consider the recommendations of the Board of Studies of Computer Applications to introduce curriculum and detailed Syllabus for M.C.A. Degree Programme as given in [Annexure – AI](#)

Resolved to approve the introduction of curriculum and detailed Syllabus for M.C.A. Degree Programme as presented in the Academic Council.

This comes into effect for the students passed out from the academic year 2020-21 onwards.

- 60:38** To consider the recommendations of the Board of Studies of Computer Applications to introduce Regulations for M.C.A. Degree Programme as given in [Annexure – AJ](#)

Resolved to approve the introduction of Regulations for M.C.A. Degree Programme as presented in the Academic Council.

This comes into effect for the students passed out from the academic year 2020-21 onwards.

- 60:39** To consider the recommendations of the Board of Studies of Architecture to revise the Credit Distribution, Scheduling of Courses, Assessment Pattern of Courses in M.Arch (General Architecture) Degree Programme as given in **Annexure – AK**

Resolved to approve the revision of the Credit Distribution, Scheduling of Courses, Assessment Pattern of Courses in M.Arch (General Architecture) Degree Programme as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2020-21 onwards.

- 60:40** To consider the recommendations of the Board of Studies of Architecture to revise the M.Arch. Regulations in Clauses 3, 5, 6, 9 and 10 as given in **Annexure – AL**

Resolved to approve the revision in Clauses 3, 5, 6, 9 and 10 of M.Arch Regulations introduction as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

60:41 To consider the recommendations of the Standing Committee of this academic council to introduce the course *18CEGG0 Entrepreneurship Development for B.E./B.Tech. Degree Programmes* as given in **Annexure – AM**

Resolved to approve the introduction of the course 18CEGG0 Entrepreneurship Development for B.E./B.Tech. Degree Programmes as presented in the Academic Council.

This comes into effect for the students admitted from the academic year 2018-19 onwards.

During the academic council meeting, the members had suggested the following points:

1. The academic council members expressed their concerns on the sliding in NIRF Ranking of the College and suggested to prepare an action plan to improve the NIRF Ranking
2. The best practices in the institution are to be communicated to the stakeholders periodically.
3. In 18SE171 Structural Engineering Laboratory of M.E. Structural Engineering Degree Programme, a specific software tool namely 'StadPro' was mentioned in the syllabus. It has to be replaced with structural engineering software tools.
4. It is appreciated that Tribology course is introduced in B.E. Mechanical Engineering Degree Programme and subject experts in this field are to be invited for delivering lectures for students and setting up facilities in the Department.
5. Institution should prepare and apply for International Accreditation for the UG Programmes
6. Training programme may be conducted for the faculty members to design Concept Map and prepare detailed Course Plan in UG and PG course designs.
7. IT and CSE Departments may offer Industry supported courses, common to both B.E. (Computer Science and Engineering) and B.Tech. (Information Technology)

Prepared by:

Dr.S.J. Thiruvengadam
Dean (Academic Process)

Approved by:

Dr.S. Mercy Shalinie
Principal i/c

NOTE: As the Academic Council is conducted in online mode, there will be no signature of the persons attended the same. However, the minutes are approved in the next Academic Council meet and the same is added in agenda