

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

**Minutes of the Sixty Fourth Meeting of Academic Council**

The Sixty Fourth meeting of the Academic Council was held on 11 January 2023 Wednesday at 10 AM in Online Mode under the Chairmanship of Dr. M. Palaninatha Raja, Principal i/c. The following members were present.

1.	Dr.D.K.Subramanian	Former Professor, Indian Institute of Science, Bengaluru
2.	Dr.K.Palanivelu	Professor, Centre for Environmental Studies, Anna University, Chennai
3.	Dr. K. Malathy	Professor, Department of ECE, Anna University, Chennai
4.	Dr.P.Latha	Principal i/c, Government College of Engineering, Tirunelveli
5.	Dr.Raviprakash Salagame	Board Member & Director for Global Industry Program, IUCEE
6.	Mr. M.V. Ramana Murthy	Director & Head, R&D Operations, Ericsson R&D, Bengaluru
7.	Dr.R.Velkennedy	Dean, Co-curricular and Extracurricular Activities
8.	Dr.M.Kottaisamy	Dean, Students and Head, Dept. of Chemistry
9.	Dr.K.Chockalingam	Registrar (Admin)
10.	Dr.S.Baskar	Dean ( Research and Development)
11.	Dr.S.J. Thiruvengadam	Dean (Academic Process) and Member Secretary
12.	Dr.S.Rajaram	Registrar (Academics) and Head, Dept, of ECE
13.	Dr.K.Sudalaimani	Head, Dept. of Civil Engineering
14.	Dr.G.K. Raajesh	Dean, Industry Institute Interface
15.	Dr.A.Valan Arasu	Head, Dept. of Mechanical Engineering
16.	Dr.C.K.Babulal	Head, Dept. of Electrical and Electronics Engineering
17.	Dr.S.Mercy Shalinie	Dean (MIS) and Head, Dept. of CSE
18.	Dr.P.Chitra	Head, Dept, of CSBS and Dept. of Computer Applications
19.	Dr.C.Deisy	Head, Dept. of Information Technology
20.	Dr.S.Jeyabharathi	Head, Dept. of Mathematics
21.	Dr.G.Kanagaraj	Professor, Dept. of Mechatronics
22.	Dr.M.Mahendran	Head, Dept. of Physics
23.	Dr.S.Parthasarathy	Head, Dept. of AMCS
24.	Dr. Jinu Louisidha Kitchley	Head, Dept. of Architecture
25.	Dr.S.Muthuramalingam	Controller of Examinations
26.	Dr.T.Baskaran	Professor (CAS), Dept. of Civil Engineering
27.	Dr.Pl.K.Palaniappan	Professor (CAS), Dept. of Computer Applications
28.	Dr.B.Ashok Kumar	Assistant Professor, Department of EEE
29.	Dr.V.R.Venkatasubramani	Assistant Professor, Dept. of Electronics & Commn. Engg
30.	Dr.B.Subbulakshmi	Assistant Professor, Dept. of Computer Science and Engg.
31.	Dr.S.Vijayalakshmi	Professor (CAS), Dept. of Computer Applications
32.	Dr.A.Malini	Assistant Professor, Department of CSBS
33.	Dr.I.Chandramathy	Assistant Professor, Dept. of Architecture
34.	Dr.C.Jeyamala	Associate Professor, Department of Information Technology
35.	Dr.D.Anitha	Assistant Professor (Selection Grade), Department of AMCS
36.	Ms.S.Pudumalar	Assistant Professor, Department of Information Technology

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

1.	Dr.N.Vedachalam	ISRO Distinguished Professor, ISRO, Trivandrum
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**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.

**64.01** To confirm the minutes of the 63<sup>rd</sup> meeting of the Academic Council held on 25<sup>th</sup> June 2022.

*Resolved to confirm the minutes of the 63<sup>rd</sup> meeting of the Academic Council held on 25<sup>th</sup> June 2022 as there were no comments on the minutes.*

**64.02** To review the action taken on the Minutes of the 63<sup>rd</sup> meeting of the Academic Council held on 25<sup>th</sup> June 2022.

*The Chairman presented the actions taken on the suggestions made during the 63<sup>rd</sup> Meeting of the Academic Council. The Council resolved to ratify the actions taken as presented.*

64.03 To consider the recommendations of the Board of Studies of Civil Engineering to introduce detailed syllabus for the second semester B.E.(Civil Engineering) Degree Programme as given in Annexure–A.

*Resolved to approve the detailed syllabus for the second semester B.E.(Civil Engineering) Degree as presented in the Academic Council.*

This comes into effect for the students admitted from the academic year 2022-23 onwards.

64.04 To consider the recommendations of the Board of Studies of Civil Engineering to revise the syllabus for the courses 18CE660 Design of Reinforced Concrete Elements and 18CERN0 Design of Steel Structures for B.E. (Civil Engineering) Degree Programme as given in Annexure–B.

*Resolved to approve the revision of the syllabus for the courses as 18CE661 Design of Reinforced Concrete Elements and 18CERN1 Design of Steel Structures 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 2021-22 onwards.

64.05 To consider the recommendations of the Board of Studies of Civil Engineering to revise the assessment pattern as per the revised norms of Anna University, for B.E. (Civil Engineering), M.E. (Structural Engineering), M.E. (Infrastructure Engineering and Management), M.E. (Environmental Engineering) and M.E. (Construction Engineering and Management) Degree Programmes as given in Annexure–C.

*Resolved to approve the revision of the assessment pattern as per the revised norms of Anna University, for B.E. (Civil Engineering), M.E. (Structural Engineering), M.E. (Infrastructure Engineering and Management), M.E. (Environmental Engineering) and M.E. (Construction Engineering and Management) Degree Programmes as presented in the Academic Council.*

This comes into effect for the students admitted from the academic year 2021-22 onwards.

- 64.06 To consider the recommendations of the Board of Studies of Mechanical Engineering to introduce detailed syllabus for B.E.(Mechanical Engineering) Degree Programme as given in Annexure–D.

***Resolved to approve the detailed syllabus 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 2022-23 onwards.

- 64.07 To consider the recommendations of the Board of Studies of Mechanical Engineering to revise the assessment pattern as per the revised norms of Anna University, for B.E. (Mechanical Engineering) Degree Programme as given in Annexure–E.

***Resolved to approve the revision of the assessment pattern as per the revised norms of Anna University, for B.E. (Mechanical Engineering) Degree Programme as presented in the Academic Council***

This comes into effect for the students admitted in the academic year 2021-22.

- 64.08 To consider the recommendations of the Board of Studies of Electrical and Electronics Engineering to introduce detailed syllabus for B.E. (Electrical and Electronics Engineering) Degree Programme as given in Annexure–F.

***Resolved to approve the detailed syllabus 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 2022-23 onwards.

- 64.09 To consider the recommendations of the Board of Studies of Electrical and Electronics Engineering to revise the assessment pattern as per the revised norms of Anna University, for B.E. (Electrical and Electronics Engineering) and M.E (Power Systems Engineering) Degree Programmes as given in Annexure–G.

***Resolved to approve the assessment pattern as per the revised norms of Anna University, for B.E. (Electrical and Electronics Engineering) and M.E (Power Systems Engineering) Degree Programmes as presented in the Academic Council***

This comes into effect for the students admitted from the academic year 2021-22 onwards

- 64.10 To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to introduce detailed syllabus for B.E. (Electronics and Communication Engineering) Degree Programme as given in Annexure–H.

***Resolved to approve the detailed syllabus 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 2022-23 onwards.

- 64.11 To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to revise the syllabus for 18ECEB0 Fundamentals of Machine Learning for B.E. (Electronics and Communication Engineering) Degree Programme as given in Annexure-I.

***Resolved to approve the revision of the syllabus as 18ECEB1 Fundamentals of Machine Learning 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 2020-21 onwards.

- 64.12 To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to introduce an elective course 21ECPR0 Satellite Remote Sensing for B.E. (Electronics and Communication Engineering) Degree Programme as given in Annexure-J.

***Resolved to approve the syllabus for an elective course 21ECPR0 Satellite Remote Sensing 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 2021-22 onwards.

- 64.13 To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to introduce an elective course 21CNRC0 Energy Harvesting in Wireless Sensor Networks for M.E. (Communication Systems) Degree Programme as given in Annexure-K.

***Resolved to approve the introduction of the elective course 21CNRC0 Energy Harvesting in Wireless Sensor Networks for M.E. (Communication Systems) as presented in the Academic Council.***

This comes into effect for the students admitted from the academic year 2021-22 onwards.

- 64.14 To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to revise the assessment pattern as per the revised norms of Anna University, for B.E. (Electronics and Communication Engineering) and M.E. (Communication Systems) Degree Programmes as given in Annexure-L.

***Resolved to approve the assessment pattern as per the revised norms of Anna University, for B.E. (Electronics and Communication Engineering) and M.E. (Communication Systems) Degree Programmes as presented in the Academic Council***

This comes into effect for the students admitted from the academic year 2021-22 onwards.

- 64.15 To consider the recommendations of the Board of Studies of Computer Science and Engineering to introduce detailed syllabus for B.E. (Computer Science and Engineering) Degree Programme as given in Annexure–M.

***Resolved to approve the detailed syllabus 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 2022-23 onwards.

- 64.16 To consider the recommendations of the Board of Studies of Computer Science and Engineering to introduce industry supported course 18CS1N0 Software Security for B.E. (Computer Science and Engineering) Degree Programme as given in Annexure–N.

***Resolved to approve the industry supported course 18CS1N0 Software Security 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 2020-21 onwards.

- 64:17 To consider the recommendations of the Board of Studies of Computer Science and Engineering to revise the assessment pattern as per the revised norms of Anna University, for B.E. (Computer Science and Engineering) and M.E. (Computer Science and Engineering) Degree Programmes as given in Annexure–O.

***Resolved to approve the assessment pattern as per the revised norms of Anna University, for B.E. (Computer Science and Engineering) and M.E. (Computer Science and Engineering) Degree Programmes as presented in the Academic Council.***

This comes into effect for the students admitted from the academic year 2021-22 onwards.

- 64:18 To consider the recommendations of the Board of Studies of Information Technology to introduce detailed syllabus for B.Tech.(Information Technology) Degree Programme as given in Annexure–P.

***Resolved to approve the detailed syllabus 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 2022-23 onwards.

- 64:19 To consider the recommendations of the Board of Studies of Information Technology to revise the assessment pattern as per the revised norms of Anna University, for B.Tech.(Information Technology) as given in Annexure–Q.

***Resolved to approve the revised assessment pattern as per the revised norms of Anna University, for B.Tech.(Information Technology) as presented in the Academic Council.***

**Council.**

This comes into effect for the students admitted in the academic year 2021-22.

- 64:20 To consider the recommendations of the Board of Studies of Mechatronics to introduce detailed syllabus for B.E.(Mechatronics) Degree Programme as given in Annexure–R.

***Resolved to approve the detailed syllabus for B.E.(Mechatronics) Degree Programme as presented in the Academic Council.***

This comes into effect for the students admitted from the academic year 2022-23 onwards.

- 64.21 To consider the recommendations of the Board of Studies of Mechatronics to introduce elective courses for B.E. (Mechatronics) Degree Programme as given in Annexure–S.

***Resolved to approve the elective courses for B.E. (Mechatronics) Degree Programme as presented in the Academic Council.***

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

- 64.22 To consider the recommendations of the Board of Studies of Mechatronics to revise the assessment pattern as per the revised norms of Anna University, for B.E. (Mechatronics) as given in Annexure–T.

***Resolved to approve the revised assessment pattern as per the revised norms of Anna University, for B.E. (Mechatronics) as presented in the Academic Council.***

This comes into effect for the students admitted in the academic year 2021-22.

- 64:23 To consider the recommendations of the Board of Studies of Computer Science and Business Systems to introduce a detailed Syllabus of Sixth Semester for B.Tech. (Computer Science and Business Systems) Degree Programme as given in Annexure – U.

***Resolved to approve the detailed Syllabus of Sixth Semester for 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.

- 64:24 To consider the recommendations of the Board of Studies of Computer Science and Business Systems to introduce Elective courses for B.Tech. (Computer Science and Business Systems) Degree Programme as given in Annexure –V.

***Resolved to approve the Elective courses for 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.

- 64:25 To consider the recommendations of the Board of Studies of Computer Science and Business Systems to introduce Industry Supported Course '20CB2A0 Application Security' for B.Tech. (Computer Science and Business Systems) Degree Programme as given in Annexure –W.

***Resolved to approve the Industry Supported Course '20CB2A0 Application Security' for 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.

- 64:26 To consider the recommendations of the Board of Studies of Computer Science and Business Systems to revise the assessment pattern as per the revised norms of Anna University, for B.Tech. (Computer Science and Business Systems) as given in Annexure–X.

***Resolved to approve the revised assessment pattern as per the revised norms of Anna University, for B.Tech. (Computer Science and Business Systems) as presented in the Academic Council.***

This comes into effect for the students admitted from the academic year 2021-22 onwards.

- 64:27 To consider the recommendations of the Board of Studies of Computer Applications to revise the assessment pattern as per the revised norms of Anna University, for Master of Computer Applications Degree Programme as given in Annexure –Y.

***Resolved to approve the revised assessment pattern as per the revised norms of Anna University, for Master of Computer Applications Degree Programme as presented in the Academic Council.***

This comes into effect for the students admitted from the academic year 2022-23 onwards.

- 64:28 To consider the recommendations of the Board of Studies of Applied Mathematics and Computational Science to revise the assessment pattern as per the revised norms of Anna University, for M.Sc. (Data Science) Degree Programme as given in Annexure –Z.

***Resolved to approve the revised assessment pattern as per the revised norms of Anna University, for M.Sc. (Data Science) Degree Programme as presented in the Academic Council.***

This comes into effect for the students admitted from the academic year 2021-22 onwards.

64:29 To consider the recommendations of the Board of Studies of Architecture to introduce Revised Credit Distribution as per Council of Architecture, Courses of Study, detailed Syllabus for Second to Fourth Semester and M.Arch. Degree Programme as given in Annexure –AA.

***Resolved to approve the Revised Credit Distribution as per Council of Architecture, Courses of Study, detailed Syllabus for Second to Fourth Semester and M.Arch. Degree Programme as presented in the Academic Council.***

This comes into effect for the students admitted from the academic year 2022-23 onwards.

64:30 To consider the recommendations of the Board of Studies of Architecture to introduce Courses of Study, detailed Syllabus for Fifth to Tenth Semester for B.Arch. Degree Programme as given in Annexure –AB.

***Resolved to approve the Courses of Study, detailed Syllabus for Fifth to Tenth Semester for B.Arch. Degree Programme as presented in the Academic Council.***

This comes into effect for the students admitted from the academic year 2022-23 onwards.

64:31 To consider the recommendations of the Board of Studies of Science and Humanities to consider the syllabus for the elective courses 22MAFA0 Algorithmic Graph Theory, 22MAFB0 Fuzzy Sets and Systems, 22MAFD0 Numerical Calculus and 22MAFF0 Mathematics for Machine Learning for B.E./B.Tech., Degree Programmes as given in Annexure- AC.

***Resolved to approve the syllabus for the elective courses 22MAFA0 Algorithmic Graph Theory, 22MAFB0 Fuzzy Sets and Systems, 22MAFD0 Numerical Calculus and 22MAFF0 Mathematics for Machine Learning 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 2022-23 onwards.

64:32 To consider the recommendations of the Standing Committee to introduce the amendment in UG Regulations for the course on ‘Research Practice’ as given in Annexure – AD.

***Resolved to approve the amendment in UG Regulations for the course on ‘Research Practice’ as presented in the Academic Council.***

This comes into effect for the students admitted from the academic year 2021-22 onwards.



64:33 To consider the recommendations of the Standing Committee to introduce the Honors in the same discipline, minor in other specialization and honors in other specialization for undergraduate degree Programmes as given in Annexure –AE.

*Resolved to approve the Honors in the same discipline, minor in other specialization and honors in other specialization for undergraduate degree Programmes as presented in the Academic Council.*

This comes into effect for the students admitted from the academic year 2021-22 onwards.

#### **IV Any other matter**

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

- Action plan shall be developed to improve collaborations to next level by visiting industries in order to increase the visibility of the institution by inviting industries.
- Institute shall establish “Research Clusters” that enable the students to work on industry problems.
- Setting up of Center of Excellence in “Quantum Computing”, “Autonomous Computing” and other cutting-edge technologies shall be explored.
- Organizing one or two conferences per year and publishing the activities of TCE in online research bulletins shall improve the branding and networking of TCE
- Count of SCI publications and the number of citations is to be increased. Ways to convert PG projects to patents shall be explored.
- Progress on NEP implementation shall be highlighted
- Digital twins can be used in all departments. Self-adaptive and Self repairing systems shall be taught in the curriculum. Dr. D.K. Subramanian shall be invited for a talk in this regard.
- Large datasets shall be identified by the institution to use in courses like Machine Learning and Deep learning. IBM Watson Analytics shall be explored.
- Experts from Product Based Companies shall be invited to the Board of Studies of Computer Science and Engineering and Information Technology Departments.
- A mechanism for recommending appropriate elective courses to the students shall be made in place.

**Prepared by:**

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

**Approved by:**

  
**Dr.M.Palaninatha Raja, Principal i/c**