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

MINUTES OF THE SIXTY THIRD MEETING OF ACADEMIC COUNCIL

The Sixty Third meeting of the Academic Council was held on 25th June 2022, Saturday at 10.30 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.N.Vedachalam	ISRO Distinguished Professor, ISRO, Trivandrum
3	Dr.K. Malathy	Professor, School of ECE, Anna University, Chennai
4	Dr.P.Latha	Principal i/c, Government College of Engineering, Tirunelveli
5	Mr. M.V. Ramana Murthy	Director & Head, R&D Operations, Ericsson R&D, Bengaluru
6	Dr.Raviprakash Salagame	Board Member and Director for Global Industry Program, IUCEE
7	Dr.R.Vasudevan	Dean (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.G.K.Raajesh	Dean (Industry Institute Interaction)
14	Dr.T. Velrajan	Head, Dept. of Civil Engineering
15	Dr.A.Valanarasu	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 Computer Science and Engineering
18	Dr.P.Chitra	Head, Dept. of Computer Applications
19	Dr.C.Deisy	Head, Dept. of Information Technology
20	Dr.S.Jeyabharathi	Head, Dept. of Mathematics
21	Dr.M.Mahendran	Head, Dept. of Physics
22	Dr.S.Parthasarathy	Head, Dept. of Applied Mathematics and Computational Science
23	Dr.Jinu Louishidha Kitcheley	Head, Department of Architecture
24	Dr.S.Muthuramalingam	Controller of Examinations
25	Dr.T.Baskaran	Professor, Dept. of Civil Engineering
26	Dr. PL.K.Palaniappan	Professor, Dept. of Mechanical Engineering
27	Dr.D.Kavitha	Assistant Professor, Dept. of Elect. & Electronics Engineering.
28	Dr.V.R.Venkatasubramani	Assistant Professor, Dept. of Electronics & Communication. Engg
29	Dr.B.Subbulakshmi	Assistant Professor, Dept. of Computer Science and Engineering
30	Dr.S.Vijayalakshmi	Professor, Dept. of Computer Applications
31	Dr. G.Kanagaraj	Professor, Dept. of Mechatronics
32	Dr.I.Chandramathy	Professor, Dept. of Architecture
33	Dr.D.Anitha	Assistant Professor (SG), Dept. of AMCS
34	Dr.C.Jeyamala	Associate Professor, Department of Information Technology

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

1	Dr.K.Palanivelu	Professor, Centre for Environmental Studies, Anna University, Chennai
2	Dr.A.L.Subramanian	Assistant Professor, Department of Physics

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.

63:01 To confirm the minutes of the 62nd meeting of the Academic Council held on 29.01.2022.

Resolved to confirm the minutes of the 62nd meeting of the Academic Council held on 29 Jan 2022 as there were no comments on the minutes.

63:02 To review the action taken on the Minutes of the 62nd meeting of the Academic Council held on 29.01.2022.

The Chairman presented the actions taken on the suggestions made during the 62nd Meeting of the Academic Council. The Council resolved to ratify the actions taken as presented.

63:03 To consider the recommendations of the Board of Studies of Civil Engineering to introduce the 'Courses of Study' and detailed syllabus for M.E. (Construction Engineering and Management) Degree Programme as given in **Annexure–A**.

Resolved to approve the 'Courses of Study' and detailed syllabus for M.E. (Construction Engineering and Management) Degree Programme as presented in the Academic Council.

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

63:04 To consider the recommendations of the Board of Studies of Civil Engineering to introduce Credit Distribution and Scheduling of Courses for B.E. (Civil Engineering) Degree Programme as given in **Annexure–B**..

Resolved to approve the Credit Distribution and Scheduling of Courses 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.

63:05 To consider the recommendations of the Board of Studies of Civil Engineering to introduce the syllabus for the course '*21CE410 Statistics and Fourier Series*' for B.E. (Civil Engineering) Degree Programme as given in **Annexure–C**.

Resolved to ratify the syllabus for the course '21CE410 Statistics and Fourier Series' for B.E. (Civil Engineering) Degree Programme as presented in the Academic Council.

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

63:06 To consider the recommendations of the Board of Studies of Civil Engineering to revise the PEO-Mission Statements Mapping for B.E. (Civil Engineering) Degree Programme as given in **Annexure–D**.

Resolved to ratify the revision of the PEO-Mission Statements Mapping 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.

63:07 To consider the recommendations of the Board of Studies of Mechanical Engineering to introduce Courses of Study and detailed syllabus for M.E.(Engineering Design) Degree Programme as given in **Annexure–E.**

Resolved to approve the Courses of Study and detailed syllabus for M.E. (Engineering Design) Degree Programme as presented in the Academic Council.

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

63:08 To consider the recommendations of the Board of Studies of Mechanical Engineering to introduce Credit Distribution and Scheduling of Courses for B.E. (Mechanical Engineering) Degree Programme as given in **Annexure–F.**

Resolved to approve the Credit Distribution and Scheduling 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 2022-23 onwards.

63:09 To consider the recommendations of the Board of Studies of Electrical and Electronics Engineering to introduce Credit Distribution and Scheduling of Courses for B.E. (Electrical and Electronics Engineering) Degree Programme as given in **Annexure–G**.

Resolved to approve the Credit Distribution and Scheduling of 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 2022-23 onwards.

63:10 To consider the recommendations of the Board of Studies of Electronics and Communication Engineering to introduce Credit Distribution and Scheduling of Courses for B.E. (Electronics and Communication Engineering) Degree Programme as given in **Annexure–H**.

Resolved to approve the Credit Distribution and Scheduling of 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 2022-23 onwards.

63:11 To consider the recommendations of the Board of Studies of Computer Science and Engineering to introduce Credit Distribution and Scheduling of Courses for B.E. (Computer Science and Engineering) Degree Programme as given in **Annexure–I.**

Resolved to approve the Credit Distribution and Scheduling of 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 2022-23 onwards.

63:12 To consider the recommendations of the Board of Studies of Computer Science and Engineering to introduce the courses '*18CSEB0 Human AI Interaction*' *and* '*18CS1M0 AI Insights using BI Tools*' for B.E. (Computer Science and Engineering) Degree Programme as given in **Annexure–J.**

Resolved to approve the introduction of the courses '18CSEB0 Human AI Interaction' and '18CS1M0 AI Insights using BI Tools' 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.

63:13 To consider the recommendations of the Board of Studies of Information Technology to introduce Credit Distribution and Scheduling of Courses for B.Tech.(Information Technology) Degree Programme as given in **Annexure–K**.

Resolved to approve the Credit Distribution and Scheduling of 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 2022-23 onwards.

63:14 To consider the recommendations of the Board of Studies of Mechatronics to introduce Credit Distribution and Scheduling of Courses for B.E. (Mechatronics) Degree Programme as given in **Annexure –L**.

Resolved to approve the Credit Distribution and Scheduling of 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 2022-23 onwards.

63:15 To consider the recommendations of the Board of Studies of Mechatronics to introduce the course '*18MTRD0 Air Mobility Systems*' for B.E. (Mechatronics) Degree Programme as given in **Annexure –M**.

Resolved to approve the introduction of the course '18MTRD0 Air Mobility Systems' 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.

63:16   To consider the recommendations of the Board of Studies of Computer Science and Business Systems to introduce Credit Distribution, Scheduling of Courses and detailed Syllabus of Fifth Semester for B.Tech. (Computer Science and Business Systems) Degree Programme as given in **Annexure –N**.

Resolved to approve the Credit Distribution, Scheduling of Courses and detailed Syllabus of Fifth 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.

63:17   To consider the recommendations of the Board of Studies of Computer Science and Business Systems to introduce Programme Elective courses for B.Tech. (Computer Science and Business Systems) Degree Programme as given in **Annexure –P**.

Resolved to approve the introduction of Programme 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.

63:18   To consider the recommendations of the Board of Studies of Computer Science and Business Systems to introduce the course *'20CB1A0 DevOps'* for B.Tech. (Computer Science and Business Systems) Degree Programme as given in **Annexure –Q**.

Resolved to approve the introduction of the course on '20CB1A0 DevOps' 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.

63:19   To consider the recommendations of the Board of Studies of Computer Science and Business Systems to revise the syllabus for the course *'20CB281 Principles of Electronics Laboratory'* for B.Tech. (Computer Science and Business Systems) Degree Programme as given in **Annexure –R**.

Resolved to approve the revision of the syllabus for the course '20CB281 Principles of Electronics Laboratory' 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 2022-23 onwards.

63:20 To consider the recommendations of the Board of Studies of Computer Science and Business Systems to introduce the course '*22CB350 Business Communication &Value Science – I & II*' for B.Tech. (Computer Science and Business Systems) Degree Programme as given in **Annexure –S**.

Resolved to approve the revision of the syllabus for the course 22CB350 Business Communication &Value Science – I&II' for B.Tech. (Computer Science and Business Systems) Degree Programme as presented in the Academic Council

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

63:21 To consider the recommendations of the Board of Studies of Computer Applications to introduce the courses of Study and detailed syllabus for Master of Computer Applications Degree Programme as given in **Annexure –T**.

Resolved to approve the courses of Study and detailed syllabus 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.

63:22 To consider the recommendations of the Board of Studies of Computer Applications to introduce industry supported courses '*20CA1A0 Mobile Application Development*' and '*20CA2A0 Full Stack Application Development*' for Master of Computer Applications Degree Programme as given in **Annexure –U**.

Resolved to approve the introduction of industry supported courses '20CA1A0 Mobile Application Development' and '20CA2A0 Full Stack Application Development' 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.

63:23 To consider the recommendations of the Board of Studies of *Applied Mathematics and Computational Science* to introduce the courses '*19DSPZ0 Ethics for Data Science*', '*19DS1A0 Data Reporting*' and '*19DS1B0 Tableau in Data Visualization*' for M.Sc. (Data Science) Degree Programme as given in **Annexure –V**.

Resolved to approve the introduction of the courses on 19DSPZ0 Ethics for Data Science', '19DS1A0 Data Reporting' and '19DS1B0 Tableau in Data Visualization' 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 2019-20 onwards.

63:24 To consider the recommendations of the Board of Studies of Architecture to introduce Courses of Study and Detailed Syllabus for M.Arch. Degree Programme as given in **Annexure –W.**

Resolved to approve the Courses of Study and Detailed Syllabus for 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.

63:25 To consider the recommendations of the Board of Studies of Architecture to introduce Courses of Study, Syllabus for Second Year courses and Elective Courses for B.Arch. Degree Programme as given in **Annexure –X.**

Resolved to approve the Courses of Study Syllabus for Second Year courses and Elective Courses for B.Arch. Degree Programme as presented in the Academic Council.

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

63:26 To consider the recommendations of the Board of Studies of Architecture to introduce the course '*15AR2B0 Designing buildings for greater efficiency*' for B.Arch. Degree Programme as given in **Annexure –Y.**

Resolved to approve the introduction course '15AR2B0 Designing buildings for greater efficiency' for B.Arch. Degree Programme of the as presented in the Academic Council.

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

63:27 To consider the recommendations of the *Board of Studies of Science and Humanities* to consider the syllabus for the first semester science and humanities courses for B.E./B.Tech., Degree Programmes as given in **Annexure- Z.**

Resolved to approve the syllabus for the first semester science and humanities 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 2022-23 onwards.

63:28 To consider the recommendations of the Standing Committee to introduce the course '*19ES790 Professional Readiness for Innovation, employability and Entrepreneurship*' for B.E. (Electronics and Communication Engineering), B.E. (Computer Science and Engineering) and B.Tech. (Information Technology) Degree Programmes as given in **Annexure – AA.**

Resolved to approve the syllabus for the course on '19ES790 Professional Readiness for Innovation, employability and Entrepreneurship' for B.E. (Electronics and

Communication Engineering), B.E. (Computer Science and Engineering) and B.Tech. (Information Technology) Degree Programmes as presented in the Academic Council.

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

63:29 To consider the recommendations of the Standing Committee to introduce the syllabus for TCE online courses for UG and PG Programmes as given in **Annexure –AB**.

Resolved to approve the syllabus for TCE online courses for UG and PG Programmes as presented in the Academic Council.

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

63:30 To consider the recommendations of the Standing Committee to introduce the Regulations for B.E./B.Tech, M.Arch and MCA degree programmes as given in Annexure –AC.

Resolved to approve the Regulations for B.E./B.Tech, M.Arch and MCA degree programmes as presented in the Academic Council.

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

63:31 To consider the recommendations of the Standing Committee to consider the guidelines for Relative Grading for Undergraduate Degree programmes as given in Annexure-AD

Resolved to approve the guidelines for Relative Grading 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:

- Performance Metrics such as Number of publications per faculty, PhD guidance for the last five years per faculty, revenue through commercialization of patent, number of start-ups and functioning of start-ups shall be presented in the Academic council.
- Joint patents with industries shall be encouraged.
- Efforts to setup knowledge park for innovations and machineries at a common place in the institute shall be initiated
- In M.E. Engineering Design programme, multidisciplinary design engineering shall be addressed.

- o Design at System level, Component level and User Interface level shall be focused. Simulations labs shall be included for courses like Finite Element Analysis. Electronics is also to be included in the syllabus
  - o Humanized Engineering shall be considered in the design.
- In Mathematics and Problem-Solving courses, discipline specific problems are to be given in tutorial/practice sessions.
- In the curriculum of B.E. (Electronics and Communication Engineering) Degree Programme, the fourth focus area shall be retained as AI in Communication, Vision and Health care.
- In B.E (Computer Science and Engineering) Degree Programme, content delivery shall include datasets from agriculture, soil, manufacturing, electricity and Tamil literature in India. Creating datasets in collaboration with industries shall be encouraged.
- In B.Tech.(Information Technology) Degree Programme, the focus area on Scalable computing is to be revised.
- In B.E.(Mechatronics) Programme, a course on Wearable Biosensors shall be included. Prof.Vijay K Varadhan of Penn State University shall be contacted.
- The course on 'Ethics for Data Science' by the Department of Applied Mathematics shall be offered to other departments also. General Ethics, Processes and Case studies, Code of Conduct and Personal Ethics shall be included in this course. Workshop shall be organized for faculty members with resource persons from Higher Learning institutions.

Prepared by:

Dr.S.J. Thiruvengadam 4/7/22
Dean (Academic Process)

Approved by:

Dr.M.Palaninatha Raja Principal i/c
4/7/22

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.