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

Minutes of the Meeting of the Fifty Third Academic Council

The Fifty Third meeting of Academic Council was held on 22nd December 2016, Thursday at 10.30 AM in the Conference Hall at Guest House under the Chairmanship of Dr.V.Abhaikumar, Principal. The following members were present.

1. Dr.P.V.Vaidyanathan — Former Vice-Chancellor, Annamalai University
2. Dr. M.Alagar — Professor of Chemical Engg., AC Tech. AU, Chennai
3. Mr.A.M.Rafeek — Special Officer, CDC, DTE, Chennai
4. Dr.R.Vasudevan — Dean, Co-curricular and Extracurricular Activities
5. Dr.V.Mohan — Registrar
6. Dr.K.Arunachalam — Dean, Academic Processes
7. Dr.N.Jawahar — Dean, Research and Development
8. Dr.S.Raju — Dean, Industry Institute Interaction
9. Dr.M.Palaninatha Raja — Dean, Planning & Administration and Head, Dept.of Mect.
10. Dr.B.Sivagurunathan — Head, Dept. of Civil Engineering
11. Dr.S.Muralidharan — Head, Dept. of Mechanical Engineering
12. Dr.S.Baskar — Head, Dept. of Electrical and Electronics Engineering
13. Dr.R.Sukanesh — Head, Dept. of Electronics and Communication Engineering
14. Dr.S.Mercy Shalinie — Head, Dept. of Computer Science & Engineering
15. Dr.S.Muthuramalingam — Head, Dept. of Information Technology
16. Dr.Jinu Loueshidha Kitchley — Head, Dept. of Architecture
17. Dr.S.Parthasarathy — Head, Dept. of Computer Applications
18. Dr.V.Gnanaraj — Head, Dept. of Mathematics
19. Dr.M.Kottaisamy — Head, Dept of Chemistry
20. Dr.R.Vasuki — Head, Dept. of Physics
21. Dr.T. Velrajan — Professor, Dept. of Civil Engineering
22. Dr. PL.K.Palaniappan — Associate Professor, Dept. of Mechanical Engineering
23. Dr.M.Saravanan — Assistant Professor, Dept. of Elect. & Electronics Engg.
24. Dr.V.R.Venkatasubramani — Assistant Professor, Dept. of Electronics & Commn. Engg
25. Dr. S.Vijayalakshmi — Assistant Professor, Dept. of Computer Applications
26. Mr.T.Vivek — Assistant Professor, Dept. of Mechatronics
27. Mr.G.Balaji — Assistant Professor, Dept. of Architecture
28. Dr. G.Jothilakshmi — Associate Professor, Dept of Mathematics
29. Mrs.J.Shanmugapriya — Assistant Professor, Dept. of Chemistry
30. Mr.S.Sivakumar — Controller of Examinations
31. Dr.S.J Thiruvengadam — Associate Dean (Teaching and Learning Process)

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. Dr.N.Vedachalam — ISRO Distinguished Professor, ISRO, Trivandrum
3. Dr.R.Rudramurthy — Principal, PSG College of Technology, Coimbatore
4. Dr.Aloknath De — Senior Vice President and CTO, Samsung, Bengaluru
5. Dr.N.Kamaraj — Dean, Students
6. Mrs.B.Subbulakshmi — Assistant Professor, Dept. of Computer Science and Engg.
7. Mrs.S.Pudhumalar — Assistant Professor, Dept. of Information Technology
8. Dr.S.Rajathi — Associate 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.

53:01 To confirm the minutes of the 52nd meeting of the Academic Council held on 18th June 2016.

Resolved to confirm the minutes of the 52nd academic council held on 18th June 2016 as there were no comments on the minutes.

53:02 To review the action taken on the Minutes of the 52nd meeting held on 18th June 2016.

The Chairman presented the actions taken on the suggestions made during the 52nd academic Council meeting. The Council resolved to ratify the actions taken as presented and accepted the time requested for implementation of few suggestions. .

53:03 To consider the recommendations of Board of Studies of Civil Engineering to introduce the Courses of Study, Scheme of Examinations, Elective courses and Syllabi for VI, VII and VIII Semester B.E (Civil Engineering) Degree Programme as given in **Annexure–A** *(Page No.1 to 227)*.

Resolved to approve the introduction of the Courses of Study, Scheme of Examinations, elective courses and syllabi for VI, VII and VIII Semester B.E (Civil Engineering) Degree Programme as presented in the academic council.

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

53:04 To consider the recommendations of Board of Studies of Civil Engineering to introduce the Categorization of Courses for B.E (Civil Engineering) Degree Programme in Choice Based Credit System as given in **Annexure–B** *(Page No. 228 to 235)*.

Resolved to approve the introduction of the Categorization of Courses for B.E (Civil Engineering) Degree Programme in Choice Based Credit System as presented in the academic council.

This comes into effect for the students admitted from the academic year 2015-16 onwards.

53:05 To consider the recommendations of Board of Studies of Civil Engineering to revise the syllabi for the course *14CE4C1 Capstone- I* for B.E.(Civil Engineering) Degree Programme as given in **Annexure–C** *(Page Nos.236 and 237)*.

Resolved to approve the revision of the syllabi for the course 14CE4C1 Capstone- I 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 2015-16 onwards.

53:06 To consider the recommendations of Board of Studies of Civil Engineering to introduce General Elective Courses for B.E./B.Tech Degree Programmes as given in **Annexure–D** *(Page No.238 to 268).*

Resolved to approve the introduction of the General 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 2014-15 onwards.

53:07 To consider the recommendations of Board of Studies of Civil Engineering to introduce elective courses *16ENPQ0 Indoor Air Pollution, 16ENPR0 Environmental Geotechnology* and *16ENPS0 Environmental Sustainable Development* for M.Tech. (Environmental Engineering) Degree Programme as given in **Annexure–E** (Page No. 269 to 289).

Resolved to approve the introduction of elective courses 16ENPQ0 Indoor Air Pollution, 16ENPR0 Environmental Geotechnology and 16ENPS0 Environmental Sustainable Development for M.Tech. (Environmental Engineering) Degree Programme as presented in the academic council.

This comes into effect for the students admitted from the academic year 2016-17 onwards.

53:08 To consider the recommendations of Board of Studies of Civil Engineering to revise the syllabi for the courses *15IM141 Project Formulation and Implementation* and *14IMPA1 Strategic Planning for Infrastructure Sectors for M.E. (Infrastructure Engineering and Management)* Degree Programme as given in **Annexure–F** (Page No. 290 to 306).

Resolved to approve the revision of the syllabi for the courses 15IM141 Project Formulation and Implementation and 14IMPA1 Strategic Planning for Infrastructure Sectors for M.E. (Infrastructure Engineering and Management) Degree Programme as presented in the academic council.

This comes into effect for the students admitted from the academic years 2017-18 and 2016-17 respectively.

53:09 To consider the recommendations of Board of Studies of Mechanical Engineering to introduce the Courses of Study, Scheme of Examinations, Elective courses and Syllabi for VI, VII and VIII Semester B.E. (Mechanical Engineering) Degree Programme as given in **Annexure–G** *(Page No 307 to 486).*

Resolved to approve the introduction of the Courses of Study, Scheme of Examinations, Elective courses and Syllabi for VI, VII and VIII Semester B.E. (Mechanical Engineering) Degree Programme as presented in the academic council.

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

53:10 To consider the recommendations of Board of Studies of Mechanical Engineering to introduce the Categorization of Courses for B.E (Mechanical Engineering) Degree Programme in Choice Based Credit System as given in **Annexure–H** *(Page No. 487 to 494).*

Resolved to approve the introduction of Categorization of Courses for B.E (Mechanical Engineering) Degree Programme in Choice Based Credit System as presented in the academic council.

This comes into effect for the students admitted from the academic year 2015-16 onwards.

53:11 To consider the recommendations of Board of Studies of Mechanical Engineering to revise the syllabi for the courses *14ME281 Strength of Material and Material Science Laboratory* and *14ME4C1 Capstone I* for B.E (Mechanical Engineering) Degree Programme as given in **Annexure–J** *(Page No.495 to 502).*

Resolved to approve the revision of the syllabi for the courses 14ME281 Strength of Material and Material Science Laboratory and 14ME4C1 Capstone I 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 2016-17 and 2015-16 respectively.

53:12 To consider the recommendations of Board of Studies of Mechanical Engineering to introduce General Elective Courses for B.E./B.Tech. Degree Programmes as given in **Annexure–K** *(Page No. 503 to 532).*

Resolved to approve the introduction of the General 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 2014-15 onwards.

53:13 To consider the recommendations of Board of Studies of Mechanical Engineering to revise Programme Educational Objectives (PEO), Programme Outcomes (PO), Course Outcomes (CO) and their mapping for M.E (Manufacturing Engineering) Degree Programme as given in **Annexure–L** *(Page No. 533 to 564).*

Resolved to approve the revision of the Programme Educational Objectives (PEO), Programme Outcomes (PO), Course Outcomes (CO) and their mapping for M.E (Manufacturing Engineering) Degree Programme as presented in the academic council.

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

53:14 To consider the recommendations of Board of Studies of Electrical and Electronics Engineering to introduce the Courses of Study, Scheme of Examinations, Elective courses and Syllabi for VI, VII and VIII Semester B.E.(Electrical and Electronics Engineering) Degree Programme as given in **Annexure - M** (Page No. 565 to 737).

Resolved to approve the introduction of the the Courses of Study, Scheme of Examinations, Elective courses and Syllabi for VI, VII and VIII Semester 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 2014-15 onwards.

53:15 To consider the recommendations of Board of Studies of Electrical and Electronics Engineering to introduce the Categorization of Courses for B.E.(Electrical and Electronics Engineering) Degree Programme in Choice Based Credit System as given in **Annexure–N** (Page No. 738 to 744).

Resolved to approve the introduction of the Categorization of Courses for B.E.(Electrical and Electronics Engineering) Degree Programme in Choice Based Credit System as presented in the academic council.

This comes into effect for the students admitted from the academic year 2015-16 onwards.

53:16 To consider the recommendations of Board of Studies of Electrical and Electronics Engineering to introduce courses *15EE520 Power Electronics* and *15EE620 Power System Analysis* and revise the syllabi for the course *14EE4C1 Capstone I* for B.E.(Electrical and Electronics Engineering) Degree Programme as given in **Annexure–P** (Page No. 745 to 761).

Resolved to approve the introduction of the courses 15EE520 Power Electronics and 15EE620 Power System Analysis and revise the syllabi for the course 14EE4C1 Capstone I 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 2015-16 onwards.

53:17 To consider the recommendations of Board of Studies of Electrical and Electronics Engineering to introduce courses *16EE250 Electronic Devices and Circuits, 16EE280 Electronic Devices and Circuits Lab, 16EE320 Linear Integrated Circuits, 16EE330 DC Machines and Transformers, 16ES370 C and C++ Programming, 16EE390 Integrated Circuits Lab* and *16EE440 AC Machines* for B.E.(Electrical and Electronics Engineering) Degree Programme as given in **Annexure–Q** (Page No. 762 to 806).

Resolved to approve the introduction of the courses 16EE250 Electronic Devices and Circuits, 16EE280 Electronic Devices and Circuits Lab, 16EE320 Linear Integrated Circuits, 16EE330 DC Machines and Transformers, 16ES370 C and C++

Programming, 16EE390 Integrated Circuits Lab and 16EE440 AC Machines 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 2016-17 onwards.

53:18 To consider the recommendations of Board of Studies of Electrical and Electronics Engineering to introduce General Elective Courses for B.E./B.Tech. Degree Programmes as given in **Annexure–R** *(Page No. 807 to 848).*

Resolved to approve the introduction of the General 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 2014-15 onwards.

53:19 To consider the recommendations of Board of Studies of Electrical and Electronics Engineering to revise Course Outcomes (CO) with expected proficiency and attainment levels and CO-PO Mapping for M.Tech (Control and Instrumentation) Degree Programme as given in **Annexure–S** *(Page No.849 to 887).*

Resolved to approve the revision of Course O
utcomes (CO) with expected proficiency and attainment levels and CO-PO Mapping for M.Tech (Control and Instrumentation) Degree Programme as presented in the academic council.

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

53:20 To consider the recommendations of Board of Studies of Electronics and Communication Engineering to introduce the Courses of Study, Scheme of Examinations, Elective courses and Syllabi for VI, VII and VIII Semester B.E. (Electronics and Communication Engineering) Degree Programme as given in **Annexure –T** *(Page No.888 to 1074).*

Resolved to approve and ratify the introduction of the Courses of Study, Scheme of Examinations, Elective courses and Syllabi for VI, VII and VIII Semester 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 2014-15 onwards.

53:21 To consider the recommendations of Board of Studies of Electronics and Communication Engineering to introduce the Categorization of Courses B.E. (Electronics and Communication Engineering) Degree Programme in Choice Based Credit System as given in **Annexure –U** *(Page No.1075 to 1079).*

Resolved to approve the introduction of the Categorization of Courses B.E. (Electronics and Communication Engineering) Degree Programme in Choice Based Credit System as presented in the academic council.

This comes into effect for the students admitted from the academic year 2015-16 onwards.

53:22 To consider the recommendations of Board of Studies of Electronics and Communication Engineering to introduce courses *15EC430 RF Transmission Lines and Passive Circuits, 15EC530 RF Active Circuits* and *15EC630 Antenna and wave Propagation* and revise the syllabi for the course *14EC4C1 Capstone I* for B.E. (Electronics and Communication Engineering) Degree Programme as given in **Annexure –V** *(Page No.1080 to 1096)*.

Resolved to approve and ratify the introduction of the courses 15EC430 RF Transmission Lines and Passive Circuits, 15EC530 RF Active Circuits and 15EC630 Antenna and wave Propagation and revise the syllabi for the course 14EC4C1 Capstone I 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 2015-16 onwards.

53:23 To consider the recommendations of Board of Studies of Electronics and Communication Engineering to introduce General Elective Courses for B.E./B.Tech. Degree Programmes as given in **Annexure–W** *(Page No. 1097 to 1115)*.

Resolved to approve the introduction of the General 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 2014-15 onwards.

53:24 To consider the recommendations of Board of Studies of Electronics and Communication Engineering to introduce elective courses *14CNPY0 Emerging Wireless Technologies and Future Mobile Internet, 14CNPZ0 Software Defined Cognitive Radio Networks, 14CNRA0 Telehealth Technology* and *14CNRB0 Radio Frequency Integrated Circuits System Design* for M.E. (Communication Systems) Degree Programme as given in **Annexure –X** *(Page No.1116 to 1134)*.

Resolved to approve the introduction of the elective courses 14CNPY0 Emerging Wireless Technologies and Future Mobile Internet, 14CNPZ0 Software Defined Cognitive Radio Networks, 14CNRA0 Telehealth Technology and 14CNRB0 Radio Frequency Integrated Circuits System Design 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 2016-17 onwards.

53:25 To consider the recommendations of Board of Studies of Electronics and Communication Engineering to introduce elective courses *14WTPT0 Emerging Wireless Technologies and Future Mobile Internet, 14WTPU0 Software Defined Cognitive Radio Networks, 14WTPV0 Telehealth Technology* and *14WTPW0 Radio Frequency Integrated Circuits System Design* for M.E. (Wireless Technologies) Degree Programme as given in **Annexure –Y** *(Page No.1135 to 1153).*

Resolved to approve the introduction of the elective courses 14WTPT0 Emerging Wireless Technologies and Future Mobile Internet, 14WTPU0 Software Defined Cognitive Radio Networks, 14WTPV0 Telehealth Technology and 14WTPW0 Radio Frequency Integrated Circuits System Design for M.E. (Wireless Technologies) Degree Programme as presented in the academic council.

This comes into effect for the students admitted from the academic year 2016-17 onwards.

53:26 To consider the recommendations of Board of Studies of Electronics and Communication Engineering to revise the syllabi for the course *14WT151 Multimedia Compression Techniques* for M.E. (Wireless Technologies) Degree Programme as given in **Annexure –Z** *(Page No.1154 to 1158).*

Resolved to approve the revision of the syllabi for the course 14WT151 Multimedia Compression Techniques for M.E. (Wireless Technologies) Degree Programme as presented in the academic council.

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

53:27 To consider the recommendations of Board of Studies of Electronics and Communication Engineering to revise the course outcomes and CO-PO Mapping for M.E. (Wireless Technologies) Degree Programme as given in **Annexure –AA** *(Page No.1159 to 1166).*

Resolved to approve the revision of the course outcomes and CO-PO Mapping for M.E. (Wireless Technologies) Degree Programme as presented in the academic council.

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

53:28 To consider the recommendations of Board of Studies of Computer Science and Engineering to introduce the syllabi for the courses *14CS780 Artificial Intelligence Lab* and *14CS7C0 Capstone II* for B.E.(Computer Science and Engineering) Degree Programme as given in **Annexure – AB**(Page No. 1167 to 1172).

Resolved to approve to the introduction of the syllabi for the courses 14CS780 Artificial Intelligence Lab and 14CS7C0 Capstone II for B.E.(Computer Science and Engineering) Degree Programme One Credit Courses 'T1E SPM using MSF and Agile Scrum Technology' and 'T1F Cloud 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 2014-15 onwards.

53:29 To consider the recommendations of Board of Studies of Computer Science and Engineering to introduce Elective Courses '*14CSPR0 Kernel Programming*' and '*14CSPS0 Network Directory Services*' for B.E.(Computer Science and Engineering) Degree Programme as given in **Annexure –AC** (Page No. 1173 to 1182).

Resolved to approve the introduction of the Elective Courses '14CSPR0 Kernel Programming' and '14CSPS0 Network Directory Services' 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 2014-15 onwards.

53:30 To consider the recommendations of Board of Studies of Computer Science and Engineering to introduce One Credit Courses on '*14CS1E0 Introduction to IT Service Management, 14CS1F0 Green Data Center, 14CS1G0 Basics of Application Security*' and '*14CS1H0 Foundations of NOSQL Database*' and two credit course on '*14CS2A0Multicore Interconnects: Theory and Practice*' for B.E.(Computer Science and Engineering) Degree Programme as given in **Annexure – AD** (Page No. 1183 to 1203).

Resolved to approve the introduction of the One Credit Courses on '14CS1E0 Introduction to IT Service Management, 14CS1F0 Green Data Center, 14CS1G0 Basics of Application Security' and '14CS1H0 Foundations of NOSQL Database' and two credit course on '14CS2A0Multicore Interconnects: Theory and Practice' 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 2014-15 onwards.

53:31 To consider the recommendations of Board of Studies of Computer Science and Engineering to introduce General Elective Courses '*14CSGD0 Essentials of Information Technology, 14CSGE0 Object Oriented Concepts and Design*' and '*14CSGF0 Enterprise Application Development*' for B.E./B.Tech Degree Programmes as given in **Annexure –AE** (Page No. 1204 to 1216).

Resolved to approve the introduction of the General Elective Courses '14CSGD0 Essentials of Information Technology, 14CSGE0 Object Oriented Concepts and Design' and '14CSGF0 Enterprise Application Development' for B.E./B.Tech Degree Programme as presented in the academic council.

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

53:32 To consider the recommendations of Board of Studies of Computer Science and Engineering to introduce course '*15CS490 Algorithms Lab*' and revise the syllabi for the courses '*14CS421 System Software and Operating Systems*' and '*14CS4C1 Capstone I*' for B.E.(Computer Science and Engineering) Degree Programme as given in **Annexure –AF** (Page No. 1217 to 1231).

Resolved to approve the introduction of the course '15CS490 Algorithms Lab' and revision of the syllabi for the courses '14CS421 System Software and Operating Systems' and '14CS4C1 Capstone I' 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 2015-16 onwards.

53:33 To consider the recommendations of Board of Studies of Computer Science and Engineering to revise the syllabi for the course '*14CS241 Computer Organization and Microprocessors*' for B.E.(Computer Science and Engineering) Degree Programme as given in **Annexure –AG** (Page No. 1232 to 1239).

Resolved to approve the revision of the syllabi for the courses '14CS421 System Software and Operating Systems' and '14CS4C1 Capstone I' 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 2016-17 onwards.

53:34 To consider the recommendations of Board of Studies of Computer Science and Engineering to introduce the Categorization of Courses for B.E.(Computer Science and Engineering) Degree Programme in Choice Based Credit System as given in **Annexure –AH** (Page No. 1240 to 1247).

Resolved to approve the introduction of the Categorization of Courses for B.E.(Computer Science and Engineering) Degree Programme in Choice Based Credit System as presented in the academic council.

This comes into effect for the students admitted from the academic year 2015-16 onwards.

53:35 To consider the recommendations of Board of Studies of Computer Science and Engineering to revise the course outcomes with proficiency and attainment levels for B.E.(Computer Science and Engineering) Degree Programme as given in **Annexure –AJ** (Page No. 1248 to 1268).

Resolved to approve the revision of the course outcomes with proficiency and attainment levels 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 2014-15 onwards.

53:36 To consider the recommendations of Board of Studies of Computer Science and Engineering to revise the syllabi for the course '*15CGPC1 Formal Verification and Model Checking*' for M.E.(Computer Science and Engineering) Degree Programme as given in **Annexure –AK** (Page No. 1269 to 1275).

Resolved to approve the revision of the syllabi for the course '15CGPC1 Formal Verification and Model Checking' for M.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 2016-17 onwards.

53:37 To consider the recommendations of Board of Studies of Information Technology to revise the syllabi for the courses '*14IT4C1 Capstone I, 14IT541 Data Mining, 14IT591 Network Management and Security Lab,*' and '*14ITPZ1 Internet of Things*' for B.Tech.(Information Technology) Degree Programme as given in **Annexure –AL** *(Page No.1276 to1294)*.

Resolved to approve the revision of the syllabi for the courses '14IT4C1 Capstone I, 14IT541 Data Mining, 14IT591 Network Management and Security Lab,' and '14ITPZ1 Internet of Things' 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 2015-16 onwards.

53:38 To consider the recommendations of Board of Studies of Information Technology to revise the syllabi for the course '*14IT331 Computer Organization*' for B.Tech.(Information Technology) Degree Programme as given in **Annexure –AM** *(Page No.1295 to 1300)*.

Resolved to approve the revision of the syllabi for the course '14IT331 Computer Organization' 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 2016-17 onwards.

53:39 To consider the recommendations of Board of Studies of Information Technology to introduce the syllabi for the course '*14IT7C0 Capstone II*' for B.Tech.(Information Technology) Degree Programme as given in **Annexure –AN** *(Page No.1301)*.

Resolved to approve the introduction of the syllabi for the course '14IT7C0 Capstone II' 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 2014-15 onwards.

53:40 To consider the recommendations of Board of Studies of Information Technology to introduce the One Credit course *'14IT1L0 SPM using MSF and Agile Scrum Methodology'* for B.Tech.(Information Technology) Degree Programme as given in **Annexure –AP** *(Page No.1302 to 1304).*

Resolved to approve the introduction of the One Credit course '14IT1L0 SPM using MSF and Agile Scrum Methodology' 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 2014-15 onwards.

53:41 To consider the recommendations of Board of Studies of Information Technology to introduce the Categorization of Courses for B.Tech.(Information Technology) Degree Programme in Choice Based Credit System as given in **Annexure –AQ** *Page No.1305 to 1310).*

Resolved to approve the introduction of the Categorization of Courses for B.Tech.(Information Technology) Degree Programme in Choice Based Credit System as presented in the academic council.

This comes into effect for the students admitted from the academic year 2015-16 onwards.

53:42 To consider the recommendations of Board of Studies of Information Technology to revise the syllabi for the courses *'14ISPE1 Ethical Hacking and Cyberforensics'* and *'14ISPF1 Cloud and Security'* for M.E.(Computer Science and Information Security) Degree Programme as given in **Annexure –AR** *(Page No.1311 to 1321).*

Resolved to approve the revision of the syllabi for the courses '14ISPE1 Ethical Hacking and Cyberforensics' and '14ISPF1 Cloud and Security' for M.E.(Computer Science and Information Security) Degree Programme as presented in the academic council.

This comes into effect for the students admitted from the academic year 2016-17 onwards.

53:43 To consider the recommendations of Board of Studies of Mechatronics to introduce the Courses of Study, Scheme of Examinations, Elective courses and Syllabi for VI Semester B.E. (Mechatronics) Degree Programme as given in **Annexure –AS** *(Page No.1322 to 1403).*

Resolved to approve the introduction of the Courses of Study, Scheme of Examinations, Elective courses and Syllabi for VI Semester 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.

53:44 To consider the recommendations of Board of Studies of Mechatronics to introduce General Elective Courses *'14MTGA0 Industrial Automation'* and *'14MTGB0 Mechatronics'* for B.E./B.Tech Degree Programmes as given in **Annexure –AT** *(Page No.1404 to 1415).*

Resolved to approve the introduction of the General Elective Courses '14MTGA0 Industrial Automation' and '14MTGB0 Mechatronics' 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 2014-15 onwards.

53:45 To consider the recommendations of Board of Studies of Mathematics, Physics and Chemistry to introduce the Foundation Elective courses for B.E./B.Tech Degree Programmes in Choice Based Credit System as given in **Annexure –AU** *(Page No.1416 to 1455).*

Resolved to approve the introduction of the Foundation Elective courses for B.E./B.Tech Degree Programmes in Choice Based Credit System as presented in the academic council.

This comes into effect for the students admitted from the academic year 2015-16 onwards.

53:46 To consider the recommendations of Board of Studies of Architecture to introduce the syllabi for the courses in IV – X Semesters for B.Arch Degree Programme as given in **Annexure –AV** *(Page No.1456 to 1583).*

Resolved to approve the introduction of the syllabi for the courses in IV – X Semesters for B.Arch Degree Programme as presented in the academic council.

This comes into effect for the students admitted from the academic year 2015-16 onwards.

53:47 To consider the recommendations of Board of Studies of Architecture to revise the Syllabi for the courses *'15AR321 Climate and Architecture', '15ARFK1 Ergonomics'* and *'15ARPR1 Representation II'* for B.Arch Degree Programme as given in **Annexure –AW** *(Page No.1584 to 1593).*

Resolved to approve the revision of the syllabi for the courses '14ISPE1 Ethical Hacking and Cyberforensics' and '14ISPF1 Cloud and Security' for M.E.(Computer Science and Information Security) Degree Programme as presented in the academic council.

This comes into effect for the students admitted from the academic year 2016-17 onwards.

53:48 To consider the recommendations of Board of Studies of Civil Engineering to revise the course outcomes and CO-PO mapping for M.Tech. (Environmental Engineering) Degree Programme as given in **Annexure –AX**.

Resolved to approve the revision of the course outcomes and CO-PO mapping for M.Tech.(Environmental Engineering) Degree Programme as presented in the academic council.

This comes into effect for the students admitted from the academic year 2016-17 onwards.

53:49 To consider the recommendations of Board of Studies of Civil Engineering to revise the course outcomes and CO-PO mapping for M.E. (Infrastructure Engineering and Management) Degree Programme as given in **Annexure –AY**.

Resolved to approve the revision of the course outcomes and CO-PO mapping for M.E. (Infrastructure Engineering and Management) Degree Programme *as presented in the academic council.*

This comes into effect for the students admitted from the academic year 2016-17 onwards.

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

Programme Level:

1. The name of the course '*14ECPS0 Design of Internet of Things*' may be changed as '*14ECPS0 Internet of Things*'.
2. The syllabi and name of the courses *14WTPT0 Emerging Wireless Technologies and Future Mobile Internet* and *14WTPU0 Software Defined Cognitive Radio Networks* are to be revised or one may be dropped.
3. The syllabi and name of the courses *14CNPY0 Emerging Wireless Technologies and Future Mobile Internet* and *14CNPZ0 Software Defined Cognitive Radio Networks* are to be revised or one may be dropped.
4. The name of the one credit course '14IT1L0 SPM using MSF and Agile Scrum Methodology' is to be changed as '14IT1L0 Software Project Management for Agile Methodology'.
5. The concept of 'Start-up finance' may be introduced in 'Accounting and Finance' course.

Institute Level:

1. Training for Faculty members in pedagogical aspects is appreciated and this is to be continued.
2. Research Fellowships may be instituted in Founder's name.
3. Seed Money may be sanctioned for carrying out research activities by faculty members.
4. More number of 'Theory cum Practical' courses may be introduced in the curriculum.
5. PEO, PO and CO and their mapping may be re-visited for further improvement.
6. Discussions have been made on the 'CGPA to Marks' conversion certificate, Revaluation process and number of continuous assessment test. The respective faculty-in charges have been asked to go through it further and present it in the next academic council for approval.

Prepared by: **Dr.S.J. Thiruvengadam**
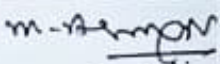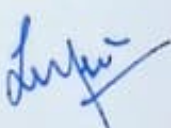*Associate Dean (Teaching and Learning)*

Approved by: **Dr.V.Abhaikumar**
Principal

THIAGARAJAR COLLEGE OF ENGINEERING MADURAI – 625 015

(A Govt. Aided Autonomous Institution affiliated to Anna University)

53rd Academic Council Meeting – Attendance sheet
22nd December, 2016 (Thursday)

List of External Member

Sl.No	Name	Phone No. / e-mail	Signature
1.	Dr.P.V. Vaidyanathan	044-24746610 9444021099 p.v.vaidya.16@ gmail.com	P.V Vaidyanatha
2.	Dr.D.K.Subramanian	ABSENT	
3.	Dr. N.Vedachalam	ABSENT	
4.	Dr.M.Alagar	9444216776 mkalagar @ Yahoo.com	m-Alagon 22/12/16
5.	Dr. R.Rudramoorthy	ABSENT	
6.	Dr. AloknathDe	ABSENT	
7.	Mr. A.M. Rafeek	9444246596 am_refeek@ yahoo.com	

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53rd Academic Council Meeting – Attendance sheet
22nd December, 2016 (Thursday)

List of External Member

Sl.No	Name	Signature	
8	Dr.V. Koval Chelvan	ABSENT	
9.	Mr.M.V.Ramana Murthy	ABSENT	

List of Internal Members

Sl.No	Name	Signature
10.	Dr. V. Abhai Kumar	V. Abhai kumar
11	Dr. R. Vasudevan	
12	Dr.V. Mohan	Mohan. V
13	Dr. K.Arunachalam	
14.	Dr. N. Jawahar	N.Jawahar
15.	Dr.S. Raju	
16.	Dr. N. Kamaraj	ABSENT
17.	Dr. M.Palaninatha Raja (Dean & HOD,MCT)	
18.	Dr.B.Sivagurunathan	
19	Dr.S.Baskar	S. Baskar
20.	Dr.S.Muralitharan	
21.	Dr. R.Sukanesh	

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53rd Academic Council Meeting – Attendance sheet
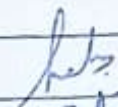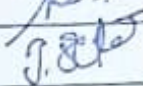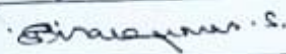**22nd December, 2016 (Thursday)**

List of Internal Members

Sl.No	Name	Signature
22	Dr. S. Mercy Shalinie	
23	Dr. S. Muthuramalingam	for D. Venkat
24	Dr. M.Palaninatha Raja	Palaninatha raj
25	Dr. Jinu loushidha Kitchely	
26	Dr. S. Parthasarathy	
27	Dr.V.Gnanaraj	V. Gizray.
28	Dr. R.Vasuki	
29	Dr.M.Kottaisamy	
30	Dr T. Vel Rajan	
31	Dr. PL.K. Palaniappan	
32	Dr. M. Saravanan	M. Sara
33	Dr.V.R. Venkatasubramani	VRVenkatasubbramani
34	Mrs. B.Subbulakshmi	ABSENT
35	Mrs. S.Pudhumalar	ABSENT
36	Mr.G.Balaji	
37	Dr. S.Vijayalakshmi	S Vijaya
38	Dr. S.Rajathi	ABSENT
39	Dr. G.Jothilakshmi	G. Jothilal

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53nd Academic Council Meeting – Attendance sheet
22nd December, 2016 (Thursday)

List of Internal Members

Sl.No	Name	Signature
40	Mr.T.Vivek	
41	Mrs. J.ShanmugaPriya	
42	Mr.S.Sivakumar	
43	Dr. S.J. Thiruvengadam	