

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

Minutes of the Meeting of the Fifty First Academic Council

The Fifty First meeting of Academic Council was held on 20th February 2016, Saturday at 10.30 AM in the Conference Hall at Guest House under the Chairmanship of Dr.V.Abhaikumar, Principal. The following members were present.

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|---------------------------------|--|
| 1. Dr.P.V.Vaidyanathan | Former Vice-Chancellor, Annamalai University |
| 2. Dr.N.Vedachalam | ISRO Distinguished Professor, ISRO, Trivandrum |
| 3. Dr. M.Alagar | Professor (Retd.), AC Tech. AU, Chennai |
| 4. Mr.A.M.Rafeek | Special Officer, CDC, DTE, Chennai |
| 5. Dr.N.Jawahar | Dean, Research and Development |
| 6. Dr.C.Muruganantham | Head, Department of Mechanical Engineering |
| 7. Dr.S.Raju | Head, Department of Electronics and Commn. Engineering. |
| 8. Dr.N.Kamaraj | Head, Dept. of Electrical & Electronics Engineering. |
| 9. Dr.S.Mercy Shalinie | Head, Dept. of Computer Science & Engineering |
| 10. Dr.S.Muthuramalingam | Head, Dept. of Information Technology |
| 11. Dr.Jinu Loueshidha Kitchley | Head, Dept. of Architecture |
| 12. Dr.S.Parthasarathy | Head, Dept. of Computer Applications |
| 13. Dr.R.Vasuki | Head, Dept. of Physics |
| 14. Dr.T. Velrajan | Professor, Dept. of Civil Engineering |
| 15. Dr. PL.K.Palaniappan | Associate Professor, Dept. of Mechanical Engineering |
| 16. Dr.S.Charlesraja | Assistant Professor, Dept. of Elect. & Electronics Engg. |
| 17. Mrs.B.Subbulakshmi | Assistant Professor, Dept. of Computer Science and Engg. |
| 18. Dr. S.Vijayalakshmi | Asst. Professor, Dept. of Computer Applications |
| 19. Dr.S.Rajathi | Associate Professor, Department of Physics |
| 20. Dr.M.Kottaisami | Professor, Department of Chemistry |

Members of Pedagogy Group

- | | |
|-------------------------------|--|
| 1. Dr.S.J Thiruvengadam | Professor, Dept. of Electronics and Communication Engg. |
| 2. Dr.G.Chitra | Associate Professor, Department of Civil Engineering |
| 3. Dr.S.Saravana Perumaal | Asst. Professor, Department of Mechanical Engineering |
| 4. Dr.S.Padmavathi | Associate Professor, Dept. of Computer Science and Engg. |
| 5. Mr.B.Ashok Kumar | Asst. Professor, Department of EEE |
| 6. Mrs.C.Jeyamala | Asst. Professor, Department of Information Technology |
| 7. Dr.D.Anitha | Asst. Professor, Department of Computer Applications |
| 8. Mr.A.L.Subramanian | Asst. Professor, Department of Physics |
| 9. Dr.S.Rajkumar | Asst. Professor, Department of Chemistry |
| 10. Dr.M.Sivananda Saraswathy | Asst. Professor, Department of Mathematics |

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

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|------------------------|--|
| 1. Dr.D.K.Subramanian | Professor(Retd.), Indian Institute of Science, Bengaluru |
| 2. Dr.R.Rudramurthy | Principal, PSG College of Technology, Coimbatore |
| 3. Dr.Aloknath De | Senior Vice President and CTO, SAMSUNG, Bengaluru |
| 4. Dr.R.Vasudevan | Dean, Co-curricular and Extracurricular Activities |
| 5. Dr.V.Mohan | Dean, Planning and Administration |
| 6. Dr.K.Arunachalam | Head, Dept of Civil Engineering |
| 7. Dr.K.Radha | Head, Dept of Chemistry |
| 8. Mr.S.Sivakumar | Controller of Examinations |
| 9. Mrs.K.V.Uma | Assistant Professor, Dept. of Information Technology |
| 10. Dr. G.Jothilakshmi | Associate Professor, Dept of Mathematics |

The following student members could not attend the meeting as they have been doing their final semester project at industries.

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|----------------------------|----------------|
| 1. Ms.S.Abinaya | Student Member |
| 2. Mr.R.Aravindh | Student Member |
| 3. Ms.S.R. Thanga Thamarai | Student Member |
| 4. Ms.R.A. Shanmathi | Student Member |

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 matters pertaining to the academic activities of the college.

- 51:01** To confirm the minutes of the 50th meeting of the Academic Council held on 30.05.2015.

Resolved to confirm the minutes of the 50th academic council held on 30th May 2015 as there were no comments on the minutes.

- 51:02** To review the action taken on the Minutes of the 50th meeting held on 30.05.2015.

The Chairman presented the Action Taken Report on the suggestions made during the 50th academic Council meeting. The Council resolved to ratify the actions taken and accepted the time requested for implementation of few suggestions.

- 51:03** To consider the recommendations of Board of Studies of Civil Engineering to introduce the Courses of Study, Scheme of Examinations and Syllabi for IV Semester B.E (Civil Engineering) Degree Programme as given in **Annexure-A** (Page No.1 to 34).

Resolved to ratify the Courses of Study, Scheme of Examinations, syllabi for IV 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.

- 51:04** To consider the recommendations of Board of Studies of Civil Engineering to revise the syllabus of the courses '14CE221 Strength of Materials', '14CE321 Mechanics of Solids' and '14CE351 Concrete Technology' for B.E (Civil Engineering) Degree Programme as given in **Annexure-B** (Page No. 35 to 50).

Resolved to ratify the revision of the syllabus of the courses '14CE221 Strength of Materials', '14CE321 Mechanics of Solids' and '14CE351 Concrete Technology' 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.

- 51:05** To consider the recommendations of Board of Studies of Civil Engineering to introduce new General Elective courses 'BGE Road Safety' and 'BGF Climate Science and Policy' for B.E., B.Tech and B.Arch Degree Programmes as given in **Annexure-C** (Page No.51 to 60).

Resolved to approve the introduction of new Elective courses 'BGE Road Safety' and 'BGF Climate Science and Policy' for B.E., B.Tech and B.Arch Degree Programmes as presented in the academic council.

This comes into effect for the students admitted from the academic year 2013-14 onwards.

- 51:06** To consider the recommendations of Board of Studies of Civil Engineering to revise the syllabus of the subject 'P41 Design of Steel Structures' for Part Time B.E (Civil Engineering) Degree Programme as given in **Annexure-D** (Page No. 61 to 62).

Resolved to ratify the revision of the syllabus of the subject 'P41 Design of Steel Structures' for Part Time 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.

- 51:07** To consider the recommendations of Board of Studies of Mechanical Engineering to introduce the Courses of Study, Scheme of Examinations and Syllabi for IV Semester B.E. (Mechanical Engineering) Degree Programme as given in **Annexure-E** (Page No 63 to 99).

Resolved to ratify the Courses of Study, Scheme of Examinations and Syllabi for IV 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.

- 51:08** To consider the recommendations of Board of Studies of Electrical and Electronics Engineering to introduce the Courses of Study, Scheme of Examinations and Syllabi for IV Semester B.E.(Electrical and Electronics Engineering) Degree Programme as given in **Annexure -F** (Page No. 100 to 148).

Resolved to ratify the Courses of Study, Scheme of Examinations and Syllabi for IV 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.

- 51:09** To consider the recommendations of Board of Studies of Electrical and Electronics Engineering to introduce one credit course on 'E1M Lead Acid Battery Technology' for B.E.(Electrical and Electronics Engineering) Degree Programme as given in **Annexure -G** (Page No. 149 to 152).

Resolved to ratify the introduction of one credit course on 'E1M Lead Acid Battery Technology' 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 2013-14 onwards.

- 51:10** To consider the recommendations of Board of Studies of Electrical and Electronics Engineering to approve target attainment levels of Program Educational Objectives of M.E.(Power Systems Engineering) and M.Tech. (Control and Instrumentation) Degree Programmes as given in **Annexure-H** (Page No. 153 to 154).

Resolved to approve the approve target attainment levels of Program Educational Objectives of M.E.(Power Systems Engineering) and M.Tech. (Control and Instrumentation) Degree Programmes as presented in the academic council.

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

- 51:11** To consider the recommendations of Board of Studies of Electronics and Communication Engineering to introduce the Courses of Study, Scheme of Examinations and Syllabi for IV Semester B.E. (Electronics and Communication Engineering) Degree Programme as given in **Annexure -J** (Page No.155 to 187).

Resolved to ratify the Courses of Study, Scheme of Examinations and Syllabi for IV Semester B.E. (Electronics and Communication Engineering) Degree Programme as presented in academic council.

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

- 51:12** To consider the recommendations of Board of Studies of Electronics and Communication Engineering to introduce new elective course '14WTPS0 Computational Electromagnetics' for M.E. (Wireless Technologies) Degree Programme as given in **Annexure-K** (Page No.188 to 191).

Resolved to approve the introduction of new elective course '14WTPS0 Computational Electromagnetics' for M.E. (Wireless Technologies) Degree Programme as presented in academic council.

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

- 51:13** To consider the recommendations of Board of Studies of Computer Science and Engineering to introduce new Elective courses for B.E.(Computer Science and Engineering) Degree Programme as given in **Annexure - L**(Page No. 192 to 229).

Resolved to approve the introduction of new Elective 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 2014-15 onwards.

- 51:14** To consider the recommendations of Board of Studies of Computer Science and Engineering to introduce One Credit Course '*14CS1A0 Introduction to Mainframe Systems*' for B.E.(Computer Science and Engineering) Degree Programme as given in **Annexure –M**(Page No. 230 to 233).

Resolved to approve the introduction of One Credit Course '14CS1A0 Introduction to Mainframe Systems' 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 2014-2015 onwards.

- 51:15** To consider the recommendations of Board of Studies of Computer Science and Engineering to revise the syllabus of the course '*14CS521 Computer Networks*' for B.E.(Computer Science and Engineering) Degree Programme as given in **Annexure – N**(Page No. 234 to 242).

Resolved to approve the revision of the syllabus of the course '14CS521 Computer Networks' 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.

- 51:16** To consider the recommendations of Board of Studies of Computer Science and Engineering to introduce General Elective Courses '*14CSGA0 Web Technologies*', '*Essentials of Mobile Application Development*' and '*14CSGC0 Animation Theory and Practice*' for B.E., B.Tech and B.Arch Degree Programme as given in **Annexure – P** (Page No. 243 to 256).

Resolved to approve the introduction of General Elective Courses '14CSGA0 Web Technologies', 'Essentials of Mobile Application Development' and '14CSGC0 Animation Theory and Practice' for B.E., B.Tech and B.Arch Degree Programme as presented in the academic council.

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

- 51:17** To consider the recommendations of Board of Studies of Mechatronics to introduce the Courses of Study, Scheme of Examinations and Syllabi for IV Semester B.E. (Mechatronics) Degree Programme as given in **Annexure –Q** (Page No.257 to 292).

Resolved to ratify the Courses of Study, Scheme of Examinations and Syllabi for IV 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.

- 51:18** To consider the recommendations of Board of Studies of Architecture to introduce Scheduling of Courses as per Choice Based Credit System, Scheme of Examinations and Syllabi for B.Arch. Degree Programme as given in **Annexure –R** (Page No.293 to 406).

Resolved to ratify the Scheduling of Course, Scheme of Examinations and syllabi under Choice Based Credit System, Scheme of Examinations and Syllabi 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.

- 51:19** To consider the recommendations of Board of Studies of Architecture to revise the Scheduling of Courses, Scheme of Examination for I Semester B.Arch. Degree Programme as given in **Annexure –S** (Page No. 407 to 410).

Resolved to ratify the revision in the Scheduling of Courses, Scheme of Examination for I Semester 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.

- 51:20** To consider the recommendations of Board of Studies of Architecture to introduce the One Credit Courses for B.Arch. Degree Programme as given in **Annexure –T** (Page No.411 to 418).

Resolved to approve the introduction of the One Credit Courses for B.Arch. Degree Programme as presented in the academic council.

This comes into effect for the students admitted from the academic year 2010-11 onwards.

- 51:21** To consider the recommendations of Board of Studies of Architecture to introduce the Regulation for B.Arch. Degree Programme as given in **Annexure – U** (Page No.419 to 436).

Resolved to ratify the introduction of Regulation 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.

- 51:22** To consider the recommendations of Board of Studies of Civil Engineering to introduce the One Credit Courses 'B1J Green Construction' and 'B1K Interior Design' for B.E (Civil Engineering) Degree Programme as given in **Annexure –V** (Page No.437 to 442).

Resolved to approve the introduction of One Credit Courses 'B1J Green Construction' and 'B1K Interior Design' 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 2012-13 onwards.

- 51:23** To consider the recommendations of Board of Studies of Civil Engineering to revise the syllabus of the courses '14IMPB1 Disaster Mitigation and Management' for M.E. (Infrastructure Engineering and Management) and '15SEPF0 Disaster Mitigation and Management' for M.E (Structural Engineering) Degree Programmes as given in **Annexure-W** (Page No. 443 to 452).

Resolved to ratify the revision of the syllabus of the courses '14IMPB1 Disaster Mitigation and Management' for M.E. (Infrastructure Engineering and Management) and '15SEPF0 Disaster Mitigation and Management' for M.E (Structural Engineering) Degree Programmes as presented in the academic council.

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

- 51:24** To consider the decision of Standing Committee of this academic council to change the Assessment Pattern/Course Outcomes for the Mathematics Courses '14CS410 Discrete Mathematics and Combinatorics', '14EC210 Engineering Mathematics', '14EE210 Engineering Mathematics II' and '14IT210 Engineering Mathematics II' for B.E/B.Tech. Degree Programmes as given in **Annexure -X** (Page No.453).

Resolved to approve to change the Assessment Pattern/Course Outcomes for the Mathematics Courses '14CS410 Discrete Mathematics and Combinatorics', '14EC210 Engineering Mathematics', '14EE210 Engineering Mathematics II' and '14IT210 Engineering Mathematics II' for B.E/B.Tech. Degree Programmes as presented in the academic council.

This comes into effect from the academic year 2015-16.

- 51:25** To consider the decision of Standing Committee of this academic council to introduce syllabus for 'Engineering Design' and 'Capstone Courses' for B.E/B.Tech. Degree Programmes as given in **Annexure -Y** (Page No.454-457).

Resolved to ratify the introduction of the syllabus for 'Engineering Design' and 'Capstone 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.

- 51:26** To consider the decision of Standing Committee of this academic council to introduce the Regulations for B.E/B.Tech. Degree Programmes as given in **Annexure - Z**.

Resolved to ratify the introduction of the Regulations 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 2015-16 onwards.

- 51:27 To consider the decision of Standing Committee of this academic council to introduce the Rubrics for Project Review in final semester B.E./B.Tech and M.E./M.Tech./MCA Degree Programmes as given in **Annexure - AA**.

Resolved to approve the introduction of Rubrics for final semester Project evaluation for B.E./B.Tech and M.E./M.Tech./MCA Degree Programmes as presented in the academic council.

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


- 51:28 To consider the decision of Standing Committee of this academic council to introduce the process for measuring the attainment of Course outcomes and program outcomes for B.E./B.Tech. Degree Programmes and M.E./M.Tech. Degree Programmes as given in **Annexure - AB**.


Resolved to approve the introduction of process for measuring the attainment of Course outcomes and program outcomes for B.E./B.Tech. Degree Programmes and M.E./M.Tech. Degree Programmes as presented in the academic council.

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

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

- Curriculum for M.E. (Infrastructure Engineering and Management) Programme has to be modified in such a way that it addresses all aspects of public services.
- The syllabus for the course on 'Disaster Mitigation and Management' in M.E. (Infrastructure Engineering and Management) may be changed to address warning system, preparedness and safety standards.
- Joule Thomson Cycle is to be included in the Refrigeration module of the course '14ME440 Thermal Engineering' in B.E. Mechanical Engineering Degree Programme
- The topic 'Runge-Kutta Method-45' given in the course '14ME410 Numerical Methods' may be checked for its correctness
- Experiments in Coordinate Measuring Machine (CMM) may be included in '14MT490 Metrology and Measurements Laboratory' course in B.E.(Mechatronics) Programme.
- Faculty members with PhD Degree may apply for D.Sc Degree at Anna University
- The syllabus of the courses in B.E./B.Tech programme is to be benchmarked with internationally reputed Universities and a report may be submitted
- More focus is to be given for thrust areas like Sensors, Biomedical and Chemical Engineering.


Prepared by: **Dr.S.J. Thiruvengadam**
Pedagogy Group Coordinator


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



THIAGARAJAR COLLEGE OF ENGINEERING MADURAI – 625 015
(A Govt. Aided Autonomous Institution affiliated to Anna University)

51st Academic Council Meeting – Attendance sheet
20th February, 2016 (Saturday)


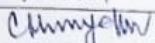

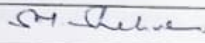
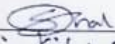
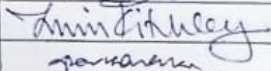
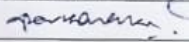
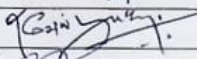


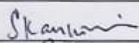
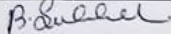
List of External Member

Sl.No	Name	Phone No. / e-mail	Signature
1.	Dr.P.V. Vaidyanathan	044-2474 6610 94440 21099 p.v.vaidya@gmail.com	P.V. Vaidyanathan
2.	Dr.D.K.Subramanian	ABSENT	
3.	Dr. N.Vedachalam	09447143 883 0471 - 2723889 n.vedachalam@vssn.gov.in	N. Vedachalam
4.	Dr.M.Alagar	0944442 16776 095662 48517 mkalagar@yahoo.com	M. Alagar 20142116
5.	Dr. R.Rudramoorthy	ABSENT.	
6.	Dr. Alok Nath De	ABSENT	
7.	Mr. A.M. Rafeek	9444 246596 am-rafeek@yahoo.com	A.M. Rafeek

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51st Academic Council Meeting - Attendance sheet
20th February, 2016 (Saturday)

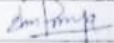
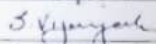
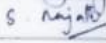

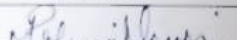
List of Internal Members

Sl.No	Name	Signature
8.	Dr. V. Abhai Kumar	
9.	Dr. R. Vasudevan	ABSENT
10.	Dr. V. Mohan	ABSENT
11.	Dr. N. Jawahar	N. Jawahar
12.	Dr. K. Arunachalam	ABSENT
13.	Dr. C. Muruganantham	
14.	Dr. S. Raju	
15.	Dr. N. Kamraj	R. Kamraj
16.	Dr. S. Mercy Shalinie	
17.	Dr. S. Muthuramalingam	
18.	Dr. Jinu Ioushidha Kitchely	
19.	Dr. S. Parthasarathy	
20.	Dr. K. Radha	ABSENT
21.	Dr. R. Vasuki	R. Vasuki
22.	Dr. T. Vel Rajan	
23.	Dr. PL. K. Palaniappan	
24.	Dr. S. Charles Raja	
25.	Dr. S. Kanthamani	
26.	Mrs. B. Subbulakshmi	



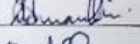
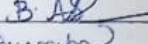
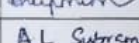
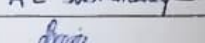

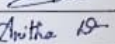
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51st Academic Council Meeting - Attendance sheet
20th February, 2016 (Saturday)

List of Internal Members

Sl.No	Name	Signature
27.	Mrs. K.V. Uma	ABSENT
28.	Mrs. R. Shanthi Priya	
29.	Dr. S. Vijayalakshmi	
30.	Dr. S. Rajathi	
31.	Dr. M. Kottaisamy	
32.	Dr. G. Jothilakshmi	ABSENT
33.	Mr. S. Sivakumar (COE)	ABSENT
34.	Dr. M. Palaninatha Raja	

List of Pedagogy group Members

Sl.No	Name	Signature
35.	Dr. S.J. Thiruvengadam	
36.	Dr. G. Chitra	
37.	Dr. S. Saravanaperumal	
38.	Dr. S. Padmavathy	
39.	Mr. B. Ashok kumar	
40.	Mrs. C. Jeyamala	
41.	Mr. A.L. Subramanian	
42.	Mr. S. Rajkumar	
43.	Mrs. M. Sivanandha Saraswathy	
44.	Mrs. D. Anitha	