

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

**Minutes of the Meeting of the Forty Sixth Academic Council**

The forty Sixth meeting of Academic Council was held on 10<sup>th</sup> August 2013, Saturday at 10.30A.M 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.D.K.Subramanian	Former Professor, Indian Institute of Science, Bengaluru
3. Dr.N.Vedachalam	ISRO Distinguished Professor, ISRO, Trivandrum
4. Dr. M.Alagar	Professor of Chemical Engg., AC Tech. AU, Chennai
5. Mr.A.M.Rafeek	Special Officer, CDC, DTE, Chennai
6. Dr.R.Vasudevan	Dean, Co-curricular and Extracurricular Activities
7. Dr.V.Mohan	Dean, Planning and Administration
8. Dr.N.Jawahar	Dean, Research and Development
9. Dr.K.Arunachalam	Head, Dept of Civil Engineering
10. Dr.C.Muruganantham	Head, Department of Mechanical Engineering
11. Dr.S.Raju	Head, Department of Electronics and Commn. Engg.
12. Dr.N.Kamaraj	Head, Dept. of Electrical & Electronics Engg.
13. Dr.S.Mercy Shalinie	Head, Dept. of Computer Science & Engineering
14. Dr.N.Sivaram	Head, Dept.of Information Technology
15. Dr.S.Parthasarathy	Head, Dept. of Computer Applications
16. Dr.S.Radha	Head, Dept of Chemistry
17. Dr.R.Vasuki	Head, Dept. of Physics
18. Dr. K.Chockalingam	Associate Professor, Dept. of Mechanical Engineering
19. Dr.K.Selvi	Assoc. Professor, Dept. of Elect. & Electronics Engg.
20. Dr.B.Manimegalai	Asst. Professor, Dept. of Electronics & Commn. Engg.
21. Dr.P.Chitra	Asst. Professor, Dept. of Computer Science & Engg.
22. Mrs.C.Jeyamala	Asst. Professor, Dept. of Information Technology
23. Mrs. S.Vijayalakshmi	Asst. Professor, Dept. of Computer Applications
24. Dr.M.Mahendran	Asst. Professor, Dept. of Physics
25. Dr. S.Jayabharathi	Asst. Professor., Dept of Mathematics
26. Dr.P.Kalyani	Asst. Professor, Dept. of Chemistry
27. Dr.M.Palaninatha Raja	Registrar - Ex-Officio Secretary

**Special Invitees: (Members of Pedagogy Group)**

1. Dr.S.J Thiruvengadam	Professor, Dept. of Elect. & Commn. Engg.
2. Dr.C.Deisy	Asst. Professor, Dept. of Computer Science & Engg.
3. Dr.G.Chitra	Assoc. Professor, Dept. of Civil Engineering
4. Mr.S.Saravana Perumal	Asst. Professor, Department of Mechanical Engineering
5. Mr.U.Nadarajan	Asst. Professor, Department of Information Technology
6. Mr.A.L.Subramanian	Asst. Professor, Department of Physics
7. Mr.S.Rajkumar	Asst. Professor, Department of Chemistry
8. Ms.D.Anitha	Asst. Professor, Department of Computer Applications

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

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| 1. Dr.R.Rudramurthy  | Principal, PSG College of Technology, Coimbatore     |
| 2. Dr.Aloknath De    | Senior Vice President and CTO, Samsung, Bengaluru    |
| 3. Mr.G.Balaji       | Head, Department of Architecture                     |
| 4. Dr.S.Arul Mary    | Associate Professor, Dept. of Civil Engineering      |
| 5. Mr. B. AshokKumar | Asst. Professor, Dept. of Elect. & Electronics Engg. |

**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.

- 46:01** To confirm the minutes of the 45<sup>th</sup> meeting of the Academic Council held on 24<sup>th</sup> November 2012.

*Resolved to confirm the minutes of the 45<sup>th</sup> academic council held on 24<sup>th</sup> November 2012 as there were no comments on the minutes.*

- 46:02** To review the action taken on the Minutes of the 45<sup>th</sup> meeting held on 24<sup>th</sup> November 2013.

*The Chairman presented the Action Taken Report on the suggestions made during the 45<sup>th</sup> academic Council meeting. The Council resolved to ratify the actions taken as presented and accepted the time requested for implementation of few suggestions. .*

- 46:03** To consider and ratify the recommendations of Board of Studies of Mechanical Engineering to implement the subjects of study, scheme of examinations, syllabi for VII and VIII semester and syllabi for elective subjects for B.E (Mechanical Engineering) Degree programme as given in **Annexure-A** (Page No.1 to 92)

*Resolved to approve and ratify the implementation of the syllabi for VII and VIII semester and elective subjects 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 2010-2011 onwards.

- 46:04** To consider and ratify the recommendations of Board of Studies of Electrical and Electronics Engineering to implement the subjects of study, scheme of examinations, list of electives, syllabi for V semester B.E. Electrical and Electronics Engineering Degree Programme as given in **Annexure - B** (Page No.93 to 137).

*Resolved to approve and ratify the implementation of the syllabi for V 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 2011-2012 onwards.

- 46:05** To consider and ratify the recommendations of Board of Studies of Electrical and Electronics Engineering to introduce a new General elective subject 'EGG-Systems Approach for Engineers' for B.E./B.Tech. Engineering degree programmes as given in **Annexure –C** (Page No. 138 to 143)

*Resolved to approve and ratify the introduction of General elective subject 'ECG Systems Approach for Engineers' for B.E/B.Tech Engineering Degree Programme, as presented in the academic council*

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

- 46:06** To consider and ratify the recommendations of Board of Studies of Master of Computer Applications to implement the subjects of study, scheme of examinations, syllabi for V and VI semesters M.C.A Degree programme as given in **Annexure – D** (Page No. 144 to 201).

*Resolved to approve and ratify the implementation of the syllabi for V and VI semesters M.C.A. Degree Programme, as presented in the academic council*

This comes into effect for the students admitted from the academic year 2011-2012 onwards.

- 46:07** To consider the recommendations of Board of Studies of Architecture to amend the clause 10.2 of Regulation as given in **Annexure –E** (Page No.202).

*Resolved to approve the amendment in the Clause 10.2 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 2010-2011 onwards.

- 46:08** To consider the decisions of Standing Committee of this academic council to introduce and implement the following One Credit courses for Students of Engineering/Technology/Architecture degree programmes as given in **Annexure – F** (Page No.203 to 230)

Subject Code	Subject Name	Department
B1C	Large Scale Planning Systems	Civil
B1D	Corrosion of Reinforced Concrete Structures	Civil
C1G	Introduction to Avionics	CSE
D1E	3GPP Long Term Evolution System	ECE
E1H	Design of Power Supplies	EEE
E1J	Micro Grid	EEE
T1D	Business Analytics	IT

*Resolved to approve and ratify the introduction of the one credit courses listed in the Table and the syllabi for these courses for B.E./B.Tech./B.Arch Degree Programmes, as presented in the academic council*

This comes into effect for the students admitted from the academic year 2009-10 onwards.

- 46:09** To consider the recommendations of Board of Studies of Mechanical Engineering to introduce the assessment method for failed students in the subject B29/C29/D29/E29/G29/T29 Workshop as given in **Annexure –G** (Page No.231).

*Resolved to approve the assessment method in conducting the supplementary Examination for failed students in the subject B29/C29/D29/E29/G29/T29 Workshop for II semester B.E./B.Tech. Degree Programme, as presented in the academic council*

This comes into effect for the students admitted from the academic year 2012-2013 onwards.

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

- 46:10** To consider the decisions of Standing Committee of this academic council to introduce and implement the Rules and Regulations of M.E./M.Tech./M.C.A. Degree Programmes

*Resolved to approve the implementation of the Rules and Regulations of M.E./M.Tech./M.C.A. Degree Programmes, as presented in the academic council*

This comes into effect for the students admitted from the academic year 2011-12 onwards.

During the academic council meeting, the members had suggested the following action items:

##### **General**

- More project proposals are to be submitted to DST and other Govt.Agencies.
- Evaluation method for awarding Continuous Assessment marks evaluation may be made flexible.
- Faculty members may be deputed for 2 weeks to audit the courses at IITs/IISc

Summary of suggestions made to respective Departments:

##### **Electronics and Communication Engineering**

- The title for the one credit course on '3GPP Long Term Evolution System' is to be changed as 'Long Term Evolution Systems'.



### ***Computer Science and Engineering***

- The syllabi of the one credit course 'C1G Introduction to avionics' may be revised to include topics such as flight control, GPS/INS in discussion with the industrial experts.

### ***Master of Computer Applications:***

- The title of the subject 'Y5B Platform Technologies' is to be changed as 'Y5B JAVA technologies'.
- The topic J2ME is to be introduced in the subject 'Y51 Mobile Applications'.
- 'Business Process Outsourcing' and 'Business Process Management for IT' are to be introduced in the subject 'Y52 Business Process'.
- Open Source Software Testing Tools are to be introduced in the subject 'Y53 Software Quality and Testing'.
- Book on 'Software Testing' by Boriz Beizer is to be introduced as reference for the subject 'Y53 Software Quality and Testing'.
- In the subject 'Y5B Network Security', topics on 'Basics of Network Security' and 'Watermarking' are to be introduced.
- The topics 'Open Source CRM Tools' and 'CRM Analytics' are to be introduced in the subject 'Y5C Customer Relationship Management'.
- The term 'ERP Vendors' is to be replaced with 'ERP Products' in the subject 'Y5D Enterprise Resource Planning'.
- More number of case studies are to be introduced in the subjects 'Y5D Enterprise Resource Planning' and 'Y5E Business Process Re-Engineering'.
- The topics 'Pattern Recognition', 'Information Retrieval Systems' and 'Image Processing' are to be removed in the subject 'Y5E Soft Computing'.
- The topics 'Machine Learning' and 'Decision Support Systems' are to be introduced in the subject 'Y5E Soft Computing'.


### ***Mechanical Engineering***

- Cost aspects are to be included for the topics 'solar PV panel and solar power plants' in the subject "GCA-Energy conversion systems".
- The subject 'GCA Energy Conversion Systems' may be offered as two subjects namely 'Conventional Energy Sources' and 'Non-conventional Energy Sources'.
- The syllabus for the laboratory Course 'G77 Manufacturing System Simulation lab' may be revised.
- The topic 'Explosive Forming' is to be included in the subject "GCP- Metal Forming Technology".

### ***Electrical and Electronics Engineering***

- The title of the subject 'E51 Numerical methods' may be changed as 'E51 Computational methods'.

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

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

