

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-625015
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Date of Board of Studies: ~~28-11-2015~~ 23-04-2016

Date : 21-04-2016

Ref No : CSE/BOS/BS/2016/

The Members of Board of Studies of the B.E. (CBCS Curriculum – 2015 – 2016 batch) Computer Science and Engineering to be held on 23-04-2016(Saturday)

Sl.No	Name of the Member	Position of the member	Name of the Organization/ Institution of the member	Address of the member	Position in BOS	Signature
1.	Dr. S. MercyShalinie	HOD	Thiagarajar College of Engineering	HODCSE, Department of CSE, TCE, Bangalore	Chairman	
2.	Prof. Chandrashekhhar Ramanathan	Professor	IIIT		Academic Representative	
3.	Dr. P. Sambath Narayanan	Executive Consultant	IBM	Chennai	Industry Representative	
4.	Mr. C.Senthilkumar	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
5.	Dr. S. Padmavathi	Associate Professor, CSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
6.	Mrs.B.Subbulakshmi	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
7.	Ms. A.Malini	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
8.	Ms. J. Jane Rubel Angelina	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	

9.	Mr. S. Karthick	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	S. Karthick
10.	Ms. G. Thiraviaselvi	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	G. Thiraviaselvi
11.	Dr. K. SUNDARAKANTHAM	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	K. Sundarakantham
12.	K. Narasimha Malikaiah	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	K. Narasimha Malikaiah
13.	T. MANIKANDAN	APCSE	TCE	Madurai	Internal Staff	T. Manikandan
14.	S. PRASANNA	APCSE	TCE	Madurai	Internal Staff	S. Prasnna
15.	R. CHELLAMANI	APCSE	TCE	Madurai	Internal Staff	R. Chellamani
16.	Dr. M. K. Kavitha Devi	Asso. Prof / CE	TCE	Madurai	Internal Staff	Dr. M. K. Kavitha Devi
17.	M. Vijayalakshmi	APCSE	TCE	Madurai	Internal Staff	M. Vijayalakshmi
18.	M. Sivakumar	APCSE	TCE	Madurai	"	M. Sivakumar
19.	V. VIGNARAJ ANANTH	APCSE	TCE	Madurai	"	V. Vignaraj Ananth
20.	M. Suganya	APCSE	TCE	Madurai	"	M. Suganya

21 Mr. P. Ramkumar APCSE

TCE

Madurai

"

Dr. P. Ramkumar
K. R. S. K. S.
HDCSE



Management Review System Formats

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MINUTES OF THE MEETING

Date of the meeting: 23 – 04 – 2016

Name of the meeting: Board of Studies – CBCS Structure, Foundation Electives and One Credit Courses
 Attended by: Dr. S. Mercy Shalinie, HODCSE, Dr. Chandrashekar Ramanathan, IIIT, Bangalore, (BSM1) Dr. Sampath Narayanan, IBM Chennai (BSM2) and
 CSE department Faculty Members

Sl. No.	Points discussed	Action plan	Responsibility	Target date
1	Dr. S. Mercy Shalinie, Head of CSE Department gave a presentation about the structure of Choice Based Credit System (CBCS). The suggestions given by the experts are - In spirit the curriculum is excellent but some practical caveats need to be addressed - Have a strong prerequisite structure for the curriculum - Arriving at the Min/Max credits per semester is a difficult process. Have some norms for allowing a student to opt for Min/Max credits per semester - Split the courses into two streams : courses that a student can afford to drop and courses that can't be dropped - Online Courses can act as bridge courses - Credits assigned for Internships is good - Get the Board of Studies Members approval for the Online Courses to be offered - Explore student exchange programs after formalizing a way of doing credit transfer - Capstone should be seen as a project based work give multiple themes for a project - Offer project elective courses - Degree can be offered with specialization (Formalization – Identify the Min/Max Credits within every specialization) - Offer a course on either computer ethics or combining professional and computer ethics - Go for the certification courses offered by IBM to earn credits for online or skill based credits - Offer custom course (Guided Study Elective under one faculty) - Introduce a course on Virtual Reality - Proposed titles of one credit courses are : - Micro Services Architecture	The suggestions have been incorporated in the CBCS Structure	BOS In-charge	04.05.2016

	- o Digital Transformation - o Robotics - o API Economy - o Design Thinking (Ergonomics, Human Machine Interaction) - o Course on Bluemix - o Design Patterns - o IBM Watson • Proposed titles of Skill or Proficiency based courses are : - o Creative Arts or Movie Making - o Client Interfacing Skills - o Social and Environmental Responsibility - o Hindi/French/German - o Competitive Aptitude			
2	14CSFB0 - Data Communication • Mr. C.Senthilkumar, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are • For non-CSE students, this course can act as a prerequisite for taking up the computer networks course. • Include a topic near field communication. • Change the category of the course as Elective Foundation	The suggestions have been incorporated in the syllabus	Mr. C.Senthilkumar	04.05.2016
3	14CSFC0 - Object Oriented Analysis and Design • Mrs. J. Jane Rubel Angelina, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are • This course acts like a co-requisite for object oriented programming course	The suggestions have been incorporated in the syllabus	Mrs. J. Jane Rubel Angelina	04.05.2016
4	14CS1B0 – Mobile Application Development • Mrs. M.Suguna, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are • Introduce the concepts of how to test and publish the mobile application • Include the topic REST architecture	The suggestions have been incorporated in the syllabus	Mrs. M.Suguna	04.05.2016
5	14CS1C0 – Practical Approaches to Networking • Mr. C.Senthilkumar, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are • Teach the students about the Installation Procedures of DNS and DHCP • Give Hands on experience on network monitoring tools	The suggestions have been incorporated in the syllabus	Mr. C.Senthilkumar	04.05.2016

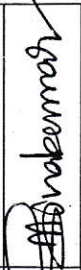
Prepared by.....*B. Senthilkumar*.....Date.....*26/4/16*.....
Approved by.....*S. Senthilkumar*.....Date.....*26.5.2016*.....

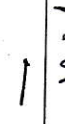
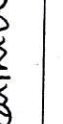
THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-625015
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Date of Board of Studies: 26-11-2016

Ref No : CSE/BOS/BS/2016/

Date : 26-11-2016

The Members of Board of Studies for the B.E. and M.E Computer Science and Engineering to be held on 26-11-2016(Saturday).

Sl.No	Name of the Member	Position of the member	Name of the Organization/ Institution of the member	Address of the member	Position in BOS	Signature
1.	Dr. S. MercyShalinie	HOD	Thiagarajar College of Engineering	HODCSE, Department of CSE, TCE, Bangalore	Chairman	
2.	Prof. Chandrashekhar Ramanathan	Professor and Associate Dean(Academics)	IIT		Academic Representative	
3.	Dr.S.Srinivasan	Professor and Head	Dept. of CSE, Anna University	Madurai	Academic Representative	
4.	Dr.B.Ravindran	Associate Professor	Dept. of CSE, IITM	Chennai	Academic Representative	
5.	Dr. P. Sambath Narayanan	Executive Consultant	IBM	Chennai	Industry Representative	
6.	Dr.P.Chitra	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
7.	Mr.M.Sivakumar	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
8.	Dr.K.Sundarakantham	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	

9.	Dr. C. Deisy	Associate Professor, CSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
10.	Dr. C. Senthilkumar	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
11.	Dr. M.K. Kavitha Devi	Associate Professor, CSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
12.	Dr. S. Padmavathi	Associate Professor, CSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
13.	Mrs. A.M. Rajeswari	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
14.	Mrs. B. Subbulakshmi	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
15.	Dr. M. Vijayalakshmi	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
16.	Mr. S. Prasanna	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
17.	Mr. T. Manikandan	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
18.	Ms. G. Madhu Priya	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
19.	Ms. J. Jane Rubel Angelina	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
20.	Dr. S. Sudha	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
21.	Mr. S. Karthick	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
22.	M. P. Ramkumar	APCSE	TCF	Madurai	Internal Staff	
23.						



Management Review System Formats

MINUTES OF THE MEETING

Date of the meeting: 26 – 11 – 2016

Name of the meeting: Board of Studies – CBCS Structure, Practical Courses, Programme Electives, General Electives, One and Two Credit Courses and Course Revisions

Attended by: Dr. S. Mercy Shalinie, HOD/CSE, Dr. Chandrashekar Ramanathan, IIIT, Bangalore, (BSM1) Dr. Sampath Narayanan, IBM Chennai (BSM2), Dr. B.Ravindran, IITM, Chennai (BSM3), Dr. S.Srinivasan, Head, CSE Department, Anna University Madurai Campus (BSM4) and CSE department Faculty Members

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Sl. No.	Points discussed	Action plan	Responsibility	Target date
1	Dr. S.Mercy Shalinie, Head of CSE Department gave a presentation about the structure of Choice Based Credit System (CBCS) and CO attainments Levels for the UG courses. The suggestions given by the experts are • Counsel or Guide the students while registering / dropping for courses in CBCS • Identify the implementation difficulties • Maximum of one course can be dropped by a student in a semester • Financial Implications pull up the students to complete the degree in-time • Introduce a skill based course on Design Thinking or Design Patterns • Introduce a skill based course on Behavioral Science or Management • GIAN courses can be credited – under skill/proficiency based category • Identify the important topics in the GATE exams and give refresher courses on those topics – may be addressed in capstone courses • Revisit the prerequisite courses and do changes if necessary • Some of the possible electives may be block chain, OpenDB, NoSQL in memory computing, Micro service API Economy, GPU Programming, Internet Optics • Possible one credit courses such as Graph DBs, MongoDB in Oracle stream	The suggestions have been incorporated in the CBCS Structure	BOS In-charge	07.12.2016
2	14CSPR0 – Kernel Programming • Mrs. G.Madhu Priya, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are • Include Operating System as a prerequisite • Include the topics such as IO drivers and scheduler. • Rewrite the course outcome 3	The suggestions have been incorporated in the syllabus	Mrs. G.Madhu Priya	07.12.2016
3	14CSGE0 - Object Oriented Concepts and Design • Mrs. A.M.Rajeswari, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are	The suggestions have been incorporated in the syllabus	Mrs. A.M.Rajeswari	07.12.2016

	- Integrate the topic Design Pattern along with UML diagrams - Include the edition for the reference book			
4	15CS490 – Algorithms Lab - Mr. S.Karthick, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are - Evaluation seems to be difficult – Code has to be evaluated with the help online judges - Give one real life problem and give three hours time to solve that problem - Assessment should be balanced one addressing all categories of students	The suggestions have been incorporated in the syllabus	Mr. S.Karthick	07.12.2016
5	14CS780 – Artificial Intelligence Lab - Dr. S.Padmavathi, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are - Introduce some experiments on machine learning algorithms - Give exposure to students on Ada and Python languages	The suggestions have been incorporated in the syllabus	Dr. S.Padmavathi	07.12.2016
6	14CSPS0 – Network Directory Services - Dr. C.Deisy, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Give more hands on experience to students. LDAP and AD are important topics to be known by the students. - Abstract the conceptual things and give more focus on practical	The suggestions have been incorporated in the syllabus	Dr. C.Deisy	07.12.2016
7	14CSPT0 – Operations Research - Mr. T.Manikandan, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Find some Computer science application for operations research - Identify better alternative course on optimization or modeling and optimization - Some of the applications for OR can be CAD algorithms, Machine Learning and Computer Networks	The suggestions have been incorporated in the syllabus	Mr. T.Manikandan	07.12.2016
8	14CS1E0 – Introduction to IT Service Management - Mr. M.Sivakumar, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Give some case study on IT service life cycle	The suggestions have been incorporated in the syllabus	Mr. V.Vignaraj	07.12.2016
9	14CS1F0 – Green Data Center - Dr. S.Padmavathi, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Introduce a part of IoT concepts	The suggestions have been incorporated in the syllabus	Dr. S.Padmavathi	07.12.2016
10	14CS1G0 – Basics of Application Security Dr. M.Vijayalakshmi, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are	The suggestions have been incorporated in the syllabus	Dr. M.Vijayalakshmi	07.12.2016

	- Integrate the topic Design Pattern along with UML diagrams - Include the edition for the reference book			
4	15CS490 – Algorithms Lab - Mr. S.Karthick, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are - Evaluation seems to be difficult – Code has to be evaluated with the help online judges - Give one real life problem and give three hours time to solve that problem - Assessment should be balanced one addressing all categories of students	The suggestions have been incorporated in the syllabus	Mr. S.Karthick	07.12.2016
5	14CS780 – Artificial Intelligence Lab - Dr. S.Padmavathi, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are - Introduce some experiments on machine learning algorithms - Give exposure to students on Ada and Python languages	The suggestions have been incorporated in the syllabus	Dr. S.Padmavathi	07.12.2016
6	14CSPS0 – Network Directory Services - Dr. C.Deisy, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Give more hands on experience to students. LDAP and AD are important topics to be known by the students. - Abstract the conceptual things and give more focus on practical	The suggestions have been incorporated in the syllabus	Dr. C.Deisy	07.12.2016
7	14CSPT0 – Operations Research - Mr. T.Manikandan, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Find some Computer science application for operations research - Identify better alternative course on optimization or modeling and optimization - Some of the applications for OR can be CAD algorithms, Machine Learning and Computer Networks	The suggestions have been incorporated in the syllabus	Mr. T.Manikandan	07.12.2016
8	14CS1E0 – Introduction to IT Service Management - Mr. M.Sivakumar, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Give some case study on IT service life cycle	The suggestions have been incorporated in the syllabus	Mr. V. Vignaraj	07.12.2016
9	14CS1F0 – Green Data Center - Dr. S.Padmavathi, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Introduce a part of IoT concepts	The suggestions have been incorporated in the syllabus	Dr. S.Padmavathi	07.12.2016
10	14CS1G0 – Basics of Application Security Dr. M.Vijayalakshmi, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are	The suggestions have been incorporated in the syllabus	Dr. M.Vijayalakshmi	07.12.2016

11	- Introduce a topic DDoS under OWASP Top 10 14CS1H0 – Foundations of NoSQL Database - Dr. K.Sundarakantham, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Instead of Object oriented Programming, any programming language can be made as prerequisite - The contents to be reviewed by the team in IBM - Include Hadoop File systems.	The suggestions have been incorporated in the syllabus	Dr. K.Sundarakantham	07.12.2016
12	14CS2A0 – Multicore Interconnects: Theory and Practice - Dr. P.Chitra, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Include some topics such as Open Power Architecture and GPU. - Check the credits for two credit course	The suggestions have been incorporated in the syllabus	Dr. P.Chitra	07.12.2016
13	14CSGD0 – Essentials of Information Technology - Mr. S.Prasanna, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Include some flavor of computer networks and internet technologies - Refer the book “Introduction to Computers” authored by Sanjeev Arora - Limit the number of text books	The suggestions have been incorporated in the syllabus	Mr. S.Prasanna	07.12.2016
14	14CSGF0 – Desktop Publishing - Mr. M.Sivakumar, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Can be offered as a one credit practical course not as a three credit theory course - Focus on how business is interacting with customers – include a flavor of design thinking here. - Can be offered as a skill based course - Find some other relevant course for the Non CS/IT students – May be on the latest programming or on technology trends.	The suggestions have been incorporated in the syllabus	Mr. M.Sivakumar	07.12.2016
15	14CS241 – Computer Organization and Microprocessors - Dr. P.Chitra, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Check for any overlap between the contents of this course with ‘computer architecture’ course	The suggestions have been incorporated in the syllabus	Dr. P.Chitra	07.12.2016
16	14CS421 – System Software and Operating Systems - Dr. P.Chitra, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are - Make the students to implement the concepts of loading, linking and assembly in lab sessions	The suggestions have been incorporated in the syllabus	Dr. P.Chitra	07.12.2016

17	15CGPC1 – Formal Verification and Model Checking • Dr. M.K.Kavitha Devi, representative from CSE Department gave a brief description of the syllabus. The suggestions given by the experts are • Arrange for orientation/ guest lectures by the experts who are working in this area	The suggestions have been incorporated in the syllabus	Dr. M.K.Kavitha Devi	07.12.2016
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Prepared by: *B. Subashini* Date: *9/12/16* Approved by: *S. K. S. S.* Date: *9.12.2016*