

## **Management Review System Formats**

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## MINUTES OF THE MEETING

Date of the meeting: 16-11-2019 Name of the meeting: Board of Studies

Attended by: Dr.P.Chitra, HDCSE, Dr. S. Mercy Shalinie, Dean (III), Dr. P. Balamurugan, IIT, Bombay (BSM1), Dr.S.Karthick, NIT, Andra Pradesh (BSM2)
Mr. Vidhya Shankar, Fractal Analytics, Bangalore (BSM3), Dr. C. Uma Rani, A.C. College of Engg & Tech, Karaikudi and CSE department Faculty Members

	hankar, Fractal Analytics, Bangalore (BSM3), Dr. C. Uma Rani, A.C. College of Engg		T	T
Sl. No.	Points discussed	Action plan	Responsibility	Target date
1.	Dr. P.Chitra, Head of CSE Department gave a presentation about the PEOs, POs and Program Specific Outcomes (PSOs) for B.E(CSE) Programme, Introduction about the CDIO framework and Categorization of Courses under CDIO for	The suggestions will be considered	Head of Department and TLP Coordinator	-
	B.E.(CSE). The suggestions given by the experts are  "Innovation" to be incorporated to the Vision of the Department.  The publicate Data mining Websaucrand Calculus was recommended to be			
	<ul> <li>The subjects Data mining, Webapps and Calculus was recommended to be streamlined with the industry.</li> <li>Introduce Linear Algebra and Calculus and python in the earlier semesters</li> </ul>			
	<ul> <li>Connect the importance of Generic Mathematics vs Computer Science</li> <li>Suggestions were given to identify the competencies of the students and</li> </ul>			
	groom them to focus on AI, Data structures and computer Architecture which helps in research and placements.	š <sub>1</sub>		*
	<ul> <li>Addition of "Python" to "Problem Solving using Computers: is recommended - Mark sheets can have footnotes regarding the tools used for study in the semester.</li> </ul>			
	<ul> <li>Equip the students to solve ML problems in R and Python. This would be useful in interviews based on the fundamental courses on OOPS and Python.</li> </ul>			
	Students are suggested to have Github repository and learn on collaborative working to strengthen their resume. This can be facilitated by Organizing workshops on "Github"			
	<ul> <li>by Organizing workshops on "Github"</li> <li>Project Management can be added to 4th Semester which includes Github Training</li> </ul>			
	<ul><li>Include Puzzles in Lateral Thinking Course</li><li>Verify if Parallel Computing is included with a Lab component</li></ul>			

	<ul> <li>Introduce the need for Main Frame systems which is offered as 1 credit course and map the real-time trends.</li> <li>SIG work can be aligned with capstone Design Project and Engineering Design Project</li> </ul>			
2.	<ul> <li>18CS520 - Theory of Computation</li> <li>Dr.K.Sundarakantham, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>CO2 is not at right abstraction level</li> <li>Questions for CO5/CO6 is not appropriate</li> <li>The following can be added:         <ul> <li>Closure property of regular languages/Decision properties of CFLA or regular languages</li> <li>Equivalence between PDA accepting by null and final state</li> <li>Equivalence between PDA and CFG</li> <li>Greibach NF and DCFLS</li> <li>Include new model of computing like Quantum Computing, include Godel's incompleteness theorem</li> <li>Recursive, Recursively Enumerable language, Grammar Reduction</li> </ul> </li> </ul>	The suggestions have been incorporated in the syllabus	Dr.K.Sundarakantham	19.11.2019
3.	<ul> <li>Dr.C.Senthilkumar, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Include RARP, Token Ring, WLANs, BSD Sockets, Client server app</li> </ul>	The suggestions have been incorporated in the syllabus	Dr.C.Senthilkumar	19.11.2019
4.	<ul> <li>18CS560 – Software Engineering: Theory and Practice</li> <li>Dr.A.Malini, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Include the following:         <ul> <li>Life cycle models – iterative, spiral, prototyping</li> <li>Project schedule/staffing, Risk Management</li> <li>Coverage analysis, reliability, defect removal</li> <li>SRS, TDD</li> </ul> </li> </ul>	The suggestions have been incorporated in the syllabus	Dr.A.Malini	19.11.2019
5.	18CS570 – Databases Lab     Ms.A.M.Rajeswari, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are     Resources must be properly specified	The suggestions have been incorporated in the syllabus	Ms.A.M.Rajeswari	19.11.2019

	<ul> <li>PL/SQL – include exception handling, compound trigger, trigger restrictions</li> <li>Add data types - CLOB,BLOB,NCLOB,BFILE</li> <li>Include TCL commands – commit, rollback, save point, set transactions</li> <li>Ask the student to practice with transaction Management – Query execution plan, Query optimization, Compilation</li> </ul>			10.11.2010
6.	<ul> <li>Network Programming Lab</li> <li>Dr.C.Senthilkumar, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Implementation of Mail server/ Chat server</li> <li>Handling of Raw sockets</li> <li>Implementation of Application Layer protocol</li> <li>Refer the book "Unix Network Programming" Volume 1 or 2 by Richard Stevens</li> </ul>	The suggestions have been incorporated in the syllabus	Dr.C.Senthilkumar	19.11.2019
7.	<ul> <li>18CS610 - Compilers</li> <li>Dr. R.Leena Sri, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Finite Automata - to be changed as a review topic</li> <li>Include Type Checking - Semantic Analysis</li> <li>Use ambiguous grammars (Parser Generation ) - like Lex and Yacc</li> <li>Refer book "Optimizing Compilers for Modern Architecture", Randy Allen and Kennady, Morgan Kauffman publishers</li> </ul>	The suggestions have been incorporated in the syllabus	Dr. R.Leena Sri	19.11.2019
8.	<ul> <li>18CS620 – Web Programming</li> <li>Mr.M.Sivakumar, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>COs to be reframed</li> <li>Revisit the Preamble</li> <li>In DHTML, include Object model and event model</li> <li>XML –DTD, XML Schema, Chemical Markup Language(CML), DOM Parser, SAX Parser, XSI, SOAP</li> <li>Web server – Include architecture, HTTP request types, IIS</li> <li>Server side scripting - remove PHP, Add JSP, Servlet</li> </ul>	The suggestions have been incorporated in the syllabus	Mr.M.Sivakumar	19.11.2019

	<ul> <li>Web services – add WSDL, UDDI, JAX-RPC, web services orchestration</li> <li>Corresponding changes can be incorporated in the Web Programming Lab</li> </ul>			
9.	<ul> <li>18CS630 – Artificial Intelligence</li> <li>Dr.K.Sundarakantham, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are Inclusion of</li> <li>Uncertainty and Probability reasoning – Bayesian Networks</li> <li>Stat. Learning methods like learning with complete data and hidden variable</li> <li>Expectation – Maximization</li> </ul>	The suggestions have been incorporated in the syllabus	Dr.K.Sundarakantham	19.11.2019
10.	<ul> <li>18CS770 – Engineering Tools Lab</li> <li>Dr.M.Nirmala Devi, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Integrate all experiments through a theme or project</li> </ul>	The suggestions have been incorporated in the syllabus	Dr.M.Nirmala Devi	19.11.2019
11.	Dr. Narashimma Mallikarjunan representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are     Hands-on training in IoT and Sensors     Case studies can be included     Lab perspective teaching can be done     Introduce Learning Tools in Co3 and CO4     Topics on Energy Preservation and Minimization can be referred     CO7 can be added as generalization of all the objectives of the course	The suggestions have been incorporated in the syllabus	Dr. Narashimma Mallikarjunan	19.11.2019
12.	Mr. Bruce Lee, representative from Mech Department gave brief description of the syllabus. The suggestions given by the experts are     Use case of Financial Planning can be included     Mapping of the course outcomes with Project management     Give practical perspective of the course rather than theoretical concepts	The suggestions have been incorporated in the syllabus	Mr. Bruce Lee	19.11.2019

	<ul> <li>Case studies and assignments can be given in computer science perspective</li> <li>Ideas on crowd funding can be added</li> <li>Video contents on Venture Capitalization can be referred</li> </ul>			
13.	<ul> <li>18CGPU1 – 5G Networks and SDN</li> <li>Dr.C.Senthil Kumar, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Introduction to Openflow</li> <li>Topics can be limited to SDN. Title can be changed to SDN with introduction to 5G in the last session</li> <li>Check the references of resource material</li> </ul>	The suggestions have been incorporated in the syllabus	Dr.C.Senthil Kumar	19.11.2019
14.	<ul> <li>Mrs.A.M.Rajeswari, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Need for ML and cloud infrastructure in mining</li> <li>Additional classification algorithms are required</li> <li>Reframe the importance such that 80% weightage to data mining and 20% to ML.</li> <li>Topics on cloud data mining by Amazon and GCP can be referred</li> <li>CO can be introduced or rewritten to enhance hands-on</li> <li>Any of the programming paradigm R/Python to be followed</li> <li>Case studies stating use of R/Python</li> <li>Data visualization and analysis of data</li> </ul>	The suggestions have been incorporated in the syllabus	Mrs.A.M.Rajeswari	19.11.2019
15.	<ul> <li>■ Dr.M.Nirmala Devi, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>■ Can reduce the syllabus contents.</li> <li>■ Can revisit the content and focus on the outcome of the course</li> <li>■ Benchmark the contents with higher learning Institutions.</li> <li>■ Include the following:</li> <li>□ Programming for basic computational methods – QR, SVD, Interpolation</li> <li>□ Data acquisition and data handling techniques</li> <li>□ More topics on visualization - histogram, frequency polygon, Box-plots, Quartiles, Scatter Plots, Heat Maps</li> </ul>	The suggestions have been incorporated in the syllabus	Dr.M.Nirmala Devi	19.11.2019

	<ul> <li>Causalities of Bayesian networks in descriptive statistics</li> <li>Topics correlating the matrix concept of PCA and SVD</li> <li>Basic optimization algorithms, probability and linear algebra, LDA</li> <li>Topics on prescriptive and descriptive analysis</li> <li>Data science and Big data by EMC</li> </ul>			
16.	Mrs B Subbulakshmi representative from CSE Department gave brief     b		The suggestions have been incorporated in the syllabus  Mrs.B.Subbulakshmi	
17.	<ul> <li>18CSPH0 – Recommender Systems</li> <li>Dr.Nirmal Devi, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Cannot be a course on its own</li> <li>Linear algebra, Probability and statistics can be added as prerequisites</li> <li>Introduce Hands-on topics</li> <li>Revisit the CO-PO mapping</li> </ul>	The suggestions have been incorporated in the syllabus	Dr.M.K.Kavitha Devi	19.11.2019
18.	Dr.Madhu Priya, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are     OS can be added as a prerequisite     Provide assessment questions with respect to COs     "Source code of MINIX" can be added for the reference of the concepts	The suggestions have been incorporated in the syllabus	Dr.Madhu Priya	19.11.2019
19.	Prof. Sridharan, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are     Inclusion of a recent edition of text book in the reference was suggested	The suggestions have been incorporated in the syllabus	Prof. Sridharan, Dr.C.Senthil Kumar	19.11.2019

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20.	<ul> <li>18CSPK0 – Block chain Technology and Applications</li> <li>Mrs. Raja Lavanya, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Refer AICTE Recommendation on model curriculum</li> <li>Justify the need for the topic on Double spending</li> </ul>	The suggestions have been incorporated in the syllabus	Mrs. Raja Lavanya	19.11.2019
21.	Dr. K.Sundarakantham, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are inclusion of     Basics of CNN     Topics on basics of DL can be reduced	The suggestions have been incorporated in the syllabus	Dr. K.Sundarakantham	19.11.2019
	Applications of use of Tensorflow with python			
22.	<ul> <li>18CSPP0 – IoT and its Applications</li> <li>Dr. M.Vijayalakshmi, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are inclusion of</li> <li>Components of AWS and Azure relevant to IoT</li> </ul>	The suggestions have been incorporated in the syllabus	Dr. M.Vijayalakshmi	19.11.2019
23.	<ul> <li>18XXXXX – Robotic Process Automation Design and Development</li> <li>Dr. N.Sivakumar, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are inclusion of         <ul> <li>Hands-on sessions</li> <li>DB, Webapp as prerequisite</li> </ul> </li> </ul>	The suggestions have been incorporated in the syllabus	Dr. N.Sivakumar, Dr.A.Malini Mr.V.Vignaraj Ananth	19.11.2019
24.	<ul> <li>19CS490 – Project Management</li> <li>Dr. N.Sivakumar, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are inclusion of</li> <li>Gantt Chart</li> </ul>	The suggestions have been incorporated in the syllabus	Dr. N.Sivakumar	19.11.2019
25.	Dr. N.Sivakumar, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are inclusion of     Hands-on session	The suggestions have been incorporated in the syllabus	Dr.A.Malini	19.11.2019

26.	<ul> <li>Mrs. A.M.Rajeswari, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Text book addition was recommended</li> </ul>	The suggestions have been incorporated in the syllabus	Mrs. A.M.Rajeswari	19.11.2019
27.	<ul> <li>Mrs. Raja Lavanys, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Revisit databases topic in the course and file handling concepts</li> </ul>	The suggestions have been incorporated in the syllabus	Mrs. Raja Lavanys	19.11.2019
28.	<ul> <li>Dr. Nirmala Devi, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Python libraries regarding DA can be included</li> <li>The contents to be checked with the course ML using R and Data science using Python</li> </ul>	The suggestions have been incorporated in the syllabus	Dr. Nirmala Devi	19.11.2019
29.	<ul> <li>14CS1P0 - Computer Vision using CNN</li> <li>Mr. M. Siva Kumar, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>The topic can be changed to "Image classification using CNN".</li> <li>Basics of CNN, classification and transfer learning alone can be retained.</li> <li>Revise course content with detailed specification</li> <li>Granularity of course contents may be given</li> </ul>	The suggestions have been incorporated in the syllabus	Mr. M. Siva Kumar	19.11.2019
30.	<ul> <li>18CSPF0 – Parallel Computing</li> <li>Dr. P.Chitra, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are</li> <li>Remove duplication of reference book</li> </ul>	The suggestions have been incorporated in the syllabus	Dr. P.Chitra	19.11.2019
31.	<ul> <li>18CSPN0 – Cloud Computing</li> <li>Dr. P.Chitra, representative from CSE Department gave brief description of the syllabus. The suggestions given by the experts are inclusion of         <ul> <li>AWS and Components</li> <li>Hands-on contents</li> </ul> </li> </ul>	The suggestions have been incorporated in the syllabus	Dr.Jane Rubel Angelina	19.11.2019

32.	Dr.S.Mercy Shalinie, Dean (III) gave a presentation about the draft scheduling of courses and categorization of courses for the new Industry (TCS) supported B.E programme on Computer Science and Business Systems. The suggestions given by the expert members are:	The suggestions will be considered	Dr.S.Mercy Shalinie, Dr.A.Malini	-
	• Split the mathematics course into two			
	Probability			
	Statistics and Calculus			
	Include principles of Electrical engineering			
	Addition of courses on Business Analytics or Intelligence			
	Fundamentals of physics can be removed			
	Topics on Green Computing can be added			
	<ul> <li>Content uphold should be prioritized to academicians rather if TCS</li> </ul>			
	specifically provide the course they may handle			
	Course mapping with semesters in CSE curriculum has to be rechecked			
	Recheck the NBA Mandatory components			
	<ul> <li>Computational Statistics provided in 2<sup>nd</sup> semester is difficult</li> </ul>			
	Core courses to be considered with B.E CSE curriculum mapping			

Prepared by Date 20/11/19	Approved by P. Chille
Prepared by	Approved by

## THIAGAR. JAR COLLEGE OF ENGINEERING, MADURAI-625015 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date of Board of Studies: 16-11-2019

Ref No: CSE/BOS/2019/

Date: 15-11-2019

The Members of Board of Studies for the B.E.Computer Science and Engineering to be held on 16-11-2019(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.P.Chitra	Professor and Head, CSE	Thiagarajar College of Engineering	HDCSE, Department of CSE, TCE, Madurai	Chairman	P. CLE
2.	Dr. S. Mercy Shalinie	Professor and Dean (III)	Thiagarajar College of Engineering	Dean (III) TCE, Madurai	Internal Staff	St. Chil e
3.	Mr.Vidhya Shankar	Sr. Pata Scientist	Fractal Analytics	Fractal Analytics, Bangalore	Industry Representative	V. Volant
4.	Dr.S.Karthick	Assistant Professor and HOD	NIT	Andhra Pradesh	Academic Representative	S. kanthirl
5.	Dr.P.Balamurugan	Assistant Professor	IEOR,IIT	Bombay	Academic Representative	P. Belanunga
6.	Dr. C.Uma Rani	Assistant Professor	A.C.Govt. College of Engg. & Tech	Karaikudi	Academic Representative	hemme
7.	Prof. C.Sridharan	Associate Professor	Thiagarajar College of Engineering	Madurai	Internal Staff	Csridhara
8.	Mr.M.Sivakumar	Associate Professor	Thiagarajar College of Engineering	Madurai	Internal Staff	# nakumar

9.	Dr.K.Sundarakantham	Associate Professor, CSE	Thiagarajar College of Engineering	Madurai	Internal Staff	K. Sundarakanthan
10.	Ms.B.Subbulakshmi	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	3 Sulled
11.	Dr.C.Senthil Kumar	Associate Professor, CSE	Thiagarajar College of Engineering	Madurai	Internal Staff	Churchel
12.	Dr.M.K.Kavitha Devi	Professor, CSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
13.	Ms.A.M.Rajeswari	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	Mojes
14.	Dr.G.S.R.Emil Selvan	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	AN .
15.	Dr.M.Vijayalakshmi	Associate Professor, CSE	Thiagarajar College of Engineering	Madurai	Internal Staff	H. Tig -
16.	Mr.S.Prasanna	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	\$: 10~
17.	Dr.T.Manikandan	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	T.MUL
18.	Dr.N.Shivakumar	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	(Zevisie
19.	Dr.M.P.Ram Kumar	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	America
20.	Dr.G.MadhuPriya	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	G. Madhupsiya
21.	Dr.J.Janerubel Angelina	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
22.	Dr.A.Malini	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	
23.	Dr.K.Narasima Mallikarjunan	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	The
24.	Dr.M.Suguna	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	ray
25. ,	Dr.R.LeenaSri	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	fund

26.	Dr. M.Nirmala Devi	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	Centenul
27.	Mr.V.Vignaraj Anand	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	minute.
28.	Ms.Raja Lavanya	APCSE	Thiagarajar College of Engineering	Madurai	Internal Staff	Raja CS
29.	Dr.A.Anitha	APMaths	Thiagarajar College of Engineering	Madurai	Internal Staff	
30.	Mr.B. Brucelee	APMech	Thiagarajar College of Engineering	Madurai	Internal Staff	Rot To
31.						
32.				*		

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