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SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

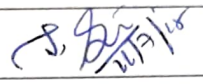
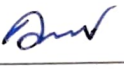
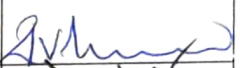

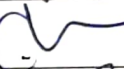
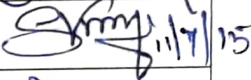
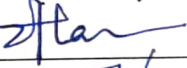

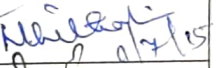

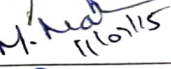

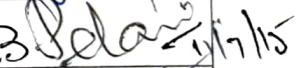
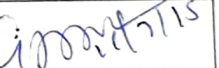
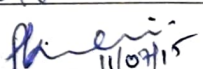
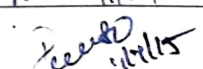
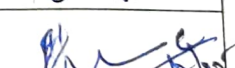
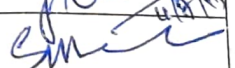
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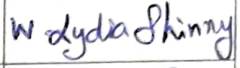



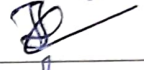
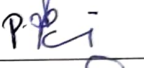



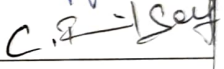
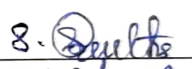
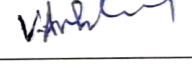
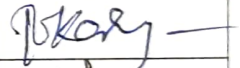


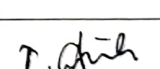
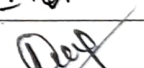
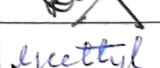
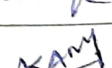

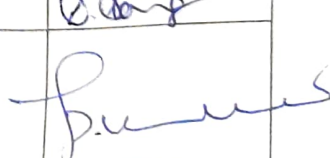






MINUTES OF THIRD MEETING OF BOARD OF STUDIES IN DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING HELD ON 11.07.2015

The meeting of the Board of Studies in the Department of Computer Science and Engineering was held on 11.07.2015 at Seminar Hall of CSE Department, Sethu Institute of Technology, Pulloor, Kariapatti.

The following members were present :

S.No	Name	Designation	Status	Signature
1.	Dr.J.Sutha	Professor &Head	Chairman	
2.	Dr.R.Sukumar	Professor	Member	
3.	Dr.R.Velumani	Professor	Member	
4.	Mrs.S.Sridevi	Associate Professor	Member	
5.	Mrs. C.Callins Christiyana	Associate Professor	Member	
6.	Mr.P.Suresh	Associate Professor	Member	
7.	Mr.N.Alangudi Balaji	Associate Professor	Member	
8.	Mr.K.Sathish Kumar	Associate Professor	Member	
9.	Mrs.D.Abitha Kumari	Associate Professor	Member	
10.	Mr.B.Selva Ganesh	Associate Professor	Member	
11.	Mrs.M.Mathinakani	Asst. Professor (S.G)	Member	
12.	Mr.M.Vadivel	Asst. Professor (S.G)	Member	
13.	Mrs.B.Pandeeswari	Asst. Professor (S.G)	Member	
14.	Mrs.G.Vaira Suganthi	Asst. Professor (S.G)	Member	
15.	Mrs.P.Krishnaveni	Asst. Professor (S.G)	Member	
16.	Mrs.M.Poomani@Punitha	Asst. Professor (S.G)	Member	
17.	Mrs.C.Jeyalakshmi	Asst. Professor (S.G)	Member	
18.	Mrs.S.Meenakshi	Asst. Professor (S.G)	Member	

S.No	Name	Designation	Status	Signature
19.	Mrs.K. Priyadharsini	Asst. Professor (S.G)	Member	
20.	Mrs.A.Senthil Selvi	Asst. Professor (S.G)	Member	
21.	Mrs.S.Selvi	Asst. Professor (S.G)	Member	
22.	Mrs.W.Lydia Shinny	Asst. Professor (S.G)	Member	
23.	Mr.B.Shanmuga Raja	Asst. Professor	Member	
24.	Mr.A.Peter Soosai Anandaraj	Asst. Professor	Member	
25.	Ms.M.Syed Rabiya	Asst. Professor	Member	
26.	Mrs.R.Monesha	Asst. Professor	Member	
27.	Ms.P.Kanagalakshmi	Asst. Professor	Member	
28.	Mr.T.Siva	Asst. Professor	Member	
29.	Ms.S.Priyadharsini	Asst. Professor	Member	
30.	Ms.S.Gospelina Christiana	Asst. Professor	Member	
31.	Ms.C.lynthamil selvi	Asst. Professor	Member	
32.	Ms.S.Sangeetha	Asst. Professor	Member	
33.	Mr. V.Anthony Sahaya Balan	Asst. Professor	Member	
34.	Ms.R. Karthiga	Asst. Professor	Member	
35.	Ms.D.Srivaishnavi	Asst. Professor	Member	
36.	Mr. H. Mathew Joel Arulanandhan	Asst. Professor	Member	
37.	Ms. I. Anicham	Asst. Professor	Member	
38.	Ms. M. Deepa	Asst. Professor	Member	
39.	Ms. M. Geethanjali	Asst. Professor	Member	
40.	Mr. K.A. Mohammed Faiz	Asst. Professor	Member	
41.	Mr. S. Sathish Kumar	Asst. Professor	Member	
42.	Dr. P. Uma Maheswari	Associate Professor, Department of Computer Technology (MIT Campus) Anna University, Chennai	University Nominee	

S.No	Name	Designation	Status	Signature
43.	Dr. K. Muneeswaran	Professor & HOD, Department of Computer Science and Engineering, Mepco Schlenk Engineering College, Sivakasi	Expert- Academician	
44.	Dr. C. Deisy	Associate Professor, Department of Computer Science and Engineering, Thiagarajar College of Engineering, Madurai	Expert- Academician	
45.	Mr.A.R.Vengat	Senior System Administrator, Cognizant Academy, Cognizant Technology Solutions, Chennai.	Industry Nominee	
46.	Dr. T. Senthil Kumar	Associate Professor, Department of CSE, Amrita School of Engineering, Amrita Vishwa vidyapeetham, Coimbatore	Member- Post Graduate Alumni	

The Chairman welcomed all the Board of Studies Members and requested the members to consider for approval of the Curriculum and Syllabi 2015 of the following UG and PG courses:

Sl No.	Program	Course	Admitted in	Mode Full / Part Time
1	B.E.	Computer Science and Engineering	2015-2016	Full Time
2	M.E.	Computer Science and Engineering	2015-2016	Full Time
3	M.E.	Computer Science and Engineering	2015-2016	Part Time
4	M.E.	Computer Science and Engineering (with specialization in networks)	2015-2016	Full Time
5	M.E.	Computer Science and Engineering (with specialization in networks)	2015-2016	Part Time

1.0 B.E. Computer Science and Engineering – 2015–2016 under Autonomous Regulations

- The members discussed thoroughly the curriculum and Syllabi for **B.E.Computer Science and Engineering** to be followed from the academic year 2015-2016 under autonomous regulation and offered useful suggestions. The members reviewed the Institute Vision and Mission, Department Vision and Mission, Programme Educational Objectives (PEOs) and Programme Outcomes (Pos) for B.E. Computer Science and Engineering discipline and the correlation between the components. The BOS members accepted the statements and the correlation. The statements are given in Annexure I. They also verified that the relevance of courses in the broad curricular components paved the way to meet out them.
- The members reviewed the stakeholders' feedback and the resolutions taken in PAC on designing the draft curriculum and recommended the same. The members appreciated the Gap analysis done by the PAC team with respect to UGC guidelines, Technology forecast, AICTE Curricular Structure, the components of goal statements, PEO and PO attainment to design the draft curriculum of R2015. The members recommended the resolutions of PAC with respect to Gap analysis work on the design of curriculum.
- BOS members reviewed and recommended the alignment of courses to program Outcomes, course outcomes and syllabus of first year courses.
- The attainment of PEOs for 2008 – 2012 batch, attainment of POs for the batch 2011-2015 and the suggestions mentioned by the Programme Assessment Committee for the improvement of attainment of PEOs and POs are presented by the HOD.
- The BOS members analyzed the PEOs and POs attainment and approved the suggestions given by the Programme Assessment Committee. They also appreciated the attainment analysis process being followed.
- The direct and indirect tools for the assessment of COs and POs are reviewed and recommended.
- The target of CO attainment of theory and Lab courses for R2015 courses are reviewed and recommended.
- The target of PO attainment for each PO is reviewed and recommended.
- Chairperson of the Board presented the value added courses to be conducted for B.E students. She elaborated the "LAMP Course" and "Network Configurations and Server side scripting". BOS resolved to recommend the value added courses for B.E Students.

Based on the suggestions given by the members, the following resolutions were made in R2015 Curriculum and Syllabus:

- 1.1 The BOS resolved to change the course name of 15UCS111 –Hardware Foundation laboratory as Engineering Fundamentals laboratory.

- 1.2 The BOS resolved to add the book written by Behrouz A. Forouzan “A Structured Programming Approach Using C” for C Programming as one of the text books for computer programming course.
- 1.3 The BOS resolved to move Database Systems Concepts and Database Systems Laboratory into third semester.
- 1.4 The BOS resolved to bring Data Communication and Networks as well as Data Communication and Networks Laboratory in fourth semester.
- 1.5 The BOS resolved to add Web Programming and Web Programming Laboratory in the 5th semester.
- 1.6 The BOS resolved to rename the course fundamentals of Information Security and Information Security Laboratory as Cryptography and Cryptography Laboratory respectively.
- 1.7 The BOS resolved to introduce Mobile Applications Development course as an integrated course in place of Introduction to Mobile Computing.
- 1.8 The BOS resolved to move the course Fundamentals of mobile computing into the professional electives.
- 1.9 The BOS resolved to add Business Intelligence as the professional elective course.
- 1.10 The BOS resolved to rename Big data as Massive Data Analytics and add it into the open electives.
- 1.11 The BOS resolved to add Fundamentals of Software Engineering Fundamentals in the open electives.
- 1.12 The BOS recommended listing the industries in which the students can undergo the internship.
- 1.13 The classification of the courses under regulation R-2015 based on having focus to one or more of the categories of employability, entrepreneurship and skill development was presented to the Board by the Chairman. The classification of courses is given in annexure I. The BoS resolved to accept the classification.

2.0 **M.E Computer Science and Engineering – 2015-2016 under Autonomous Regulation**

The members thoroughly discussed the new curriculum and Syllabi for **M.E. Computer Science and Engineering** to be followed for the students admitted in the Academic Year 2015-2016 under autonomous regulation and offered useful suggestions.

Based on the suggestions given by the members, the following resolutions are made:

- 2.1 The BOS resolved to introduce the following core courses into the curriculum
 - 2.1.1 15PCS102 Machine Learning in Semester I
 - 2.1.2 15PCS201 Data Science and Big Data Analytics in Semester II
 - 2.1.3 15PCS203 Internals of Android in Semester II

- 2.1.4 15PCS204 Cloud computing Laboratory in Semester II
- 2.1.5 15PCS205 Industrial Training and Internship in Semester II
- 2.2 The BOS resolved to modify the following courses in the curriculum
 - 2.2.1 To add additional components in 15PCS101 Analysis of Algorithms and Data Structures in Unit II.
- 2.3 The BOS resolved to introduce new electives as below
 - 2.3.1 15PCS607 Management Information Systems as an Open Elective
 - 2.3.2 15PCS523 Industrial and Systems Engineering in Healthcare as elective for Ph.D. Candidates
 - 2.3.3 15PNE502 Video Analytics as Programme Elective
- 2.4 The BOS suggested to identify the industries to carry out internship.

The BOS recommends “MATLAB programming” course as the value added course for the M.E students to carry out the projects.

The Board of Department of Computer Science and Engineering recommends the Curriculum and Syllabi of M.E. Computer Science and Engineering Full Time and Part Time to be followed from 2015-2016 batch under autonomous regulations with the above modifications.

3.0 M.E Computer Science and Engineering (with Specialization in Networks) – 2015-2016 under Autonomous Regulation

The members discussed thoroughly the new curriculum and Syllabi for **M.E. Computer Science and Engineering (with specialization in Networks)** to be followed from 2015-2016 batch under autonomous regulation and offered useful suggestions.

Based on the suggestions given by the members, the following resolutions are made:

- 3.1 The BOS has resolved to make the following changes in the curriculum.
 - 3.1.1 The BOS has resolved to introduce 15PNE103–High performance computing in the first semester instead of Distributed Computing.
 - 3.1.2 The BOS has resolved to change the name Architecting Internet of Things (15PNE201) in to Internet of Things
 - 3.1.3 The BOS has resolved to move 15PNE302 - Network Security from III semester to II semester instead of 15PNE203-4G Technologies.
 - 3.1.4 The BOS has resolved to introduce 15PNE302-Simulation of Communication Systems and Networks in the III semester instead of Network Security.

3.1.5 The classification of the courses under regulation R-2015 focused on one or more of the categories of employability, entrepreneurship and skill development were presented to the Board by the Chairman. . The classification of courses is given in annexure I. The BoS resolved to accept the classification.

The Board of Department of Computer Science and Engineering recommends the Curriculum and Syllabi of M.E. Computer Science and Engineering (with specialization in networks) Full Time and Part Time to be followed from 2015-2016 batch under autonomous regulations with the above modifications.

4.0 Percentage of changes in the Syllabi

BOS resolved to accept the following changes in the syllabus of R2015.

S.No.	Course Code & Name	Changes made in the Syllabi	Percentage of Changes
B.E Computer Science and Engineering			
1	15UCS107-Computer Programming	File handling concepts removed	5%
2	15UCS107-Computer Programming Laboratory	Unix Commands are removed. The programming exercises on pointers, Structures and Unions are added	30%
3	15UCS208-Digital Principles and System Design	HDL for Combinational circuits and HDL for sequential circuits are removed	5%
M.E Computer Science and Engineering			
4	15PCS205- Network Security	Discrete Logarithm concept is added	5%
5	15PCS508- Web Data Mining	Web search concept is removed	5%
6	15PCS516-4G Mobile Technologies	Instead of Spectrum and performance the unit on 4G Security is added	20%

5.0 New Courses Introduced in R2015

BOS resolved to introduce the following courses in R2015.

S.No	Course Code	Course Name
B.E Computer Science and Engineering		
1.	15UCS111	Engineering Fundamentals Laboratory
2.	15UIT602	Mobile Applications Development
3.	15UCS706	Cloud Computing Laboratory
4.	15UCS920	Green Computing
5.	15UCS921	E-Learning Techniques

6.	15UCS922	Neural Networks and its applications
7.	15UCS923	Fuzzy Logic
8.	15UCS925	Business Intelligence and its applications
9.	01UCS861/14UCS861/15UCS861	Software Project Management
10.	01UCS862/14UCS862/15UCS862	Multimedia
11.	01UCS863/14UCS863/15UCS863	PYTHON programming
12.	01UCS864/14UCS864/15UCS864	PHP
13.	01UCS865/14UCS865/15UCS865	ASP.NET
14.	01UCS866/14UCS866/15UCS866	R Programming
15.	01UCS867/14UCS867/15UCS867	Windows System Administration
M.E Computer Science and Engineering		
1.	15PCS102	Machine Learning Techniques
2.	15PCS202	Internals of Android
3.	15PCS203	Cloud Infrastructure Laboratory
4.	15PCS204	Industrial Training and Internship
5.	15PCS517	Cloud Application Development
6.	15PCS607	Management Information Systems
7.	15PCS511	Robotics
8.	15PCS523	Industrial and Systems Engineering in Healthcare
9.	15PCS524	Video Analytics

The Chairman thanked the members for their contribution and suggestions in framing the curriculum and syllabi for B.E. Computer Science and Engineering , M.E Computer Science and Engineering and M.E Computer Science and Engineering (with specialization in networks) to be followed from 2015 - 2016 under Autonomous regulations.



Chairman

Board of Studies

Computer Science and Engineering

Chairperson
Board of Studies
Computer Science & Engineering
Sethu Institute of Technology
Kariapatti - 626 113

Annexure I

Classification of Courses

Course Code	Name of the Course	Activities with direct bearing on Employability/ Entrepreneurship/ Skill development
15UCS107	Computer Programming	Employability/ Skill development
15UCS109	Computer Programming Laboratory	Employability/ Skill development
15UCS111	Engineering Fundamentals Laboratory	Skill development
15UCS208	Digital Principles and System Design	Skill development
15UCS209	Programming and Data Structures	Employability/ Skill development
15UCS211	Programming and Data Structures Laboratory	Employability/ Skill development
15UCS302	Data Structures	Employability/ Skill development
15UCS303	Computer Organization and Architecture	Employability/ Skill development
15UCS304	Object Oriented Programming with C++	Employability/ Skill development
15UIT305	Operating Systems	Employability/ Skill development
15UCS306	Database System Concepts	Employability/ Skill development
15UCS307	Object Oriented Programming and Data Structures Laboratory	Employability/ Skill development
15UCS308	Database Systems Laboratory	Employability/ Skill development
15UIT309	Operating Systems Laboratory	Employability/ Skill development
15UMA421	Discrete Mathematics	Skill development
15UCS402	Java Programming	Employability/ Skill development
15UCS403	Design and Analysis of Algorithms	Employability/ Skill development
15UCS404	Computer Communication and Networks	Employability/ Skill development
15UCS405	Software Engineering	Employability/ Entrepreneurship

15UCS407	Java Programming Laboratory	Employability/ Entrepreneurship/ Skill development
15UCS408	Data Communication and Networks Laboratory	Employability/ Entrepreneurship/ Skill development
15UEC429	Digital and Microprocessors Laboratory	Employability/ Skill development
15UCS501	Internet and Web Technology	Employability/ Entrepreneurship/ Skill development
15UCS502	Object Oriented Analysis and Design	Employability/ Entrepreneurship/ Skill development
15UIT503	Graphics and Multimedia	Employability/ Entrepreneurship/ Skill development
15UCS504	Theory of Computation	Employability/ Skill development
15UCS507	Internet and Web Technology Laboratory	Employability/ Entrepreneurship/ Skill development
15UCS508	Case Tools Laboratory	Employability/ Entrepreneurship/ Skill development
15UIT509	Graphics and Multimedia Laboratory	Employability/ Entrepreneurship/ Skill development
15UGS531	Soft Skills and Communication Laboratory	Employability/ Skill development
15UCS601	Principles of Compiler Design	Employability/ Skill development
15UIT602	Mobile Applications Development	Employability/ Entrepreneurship/ Skill development
15UCS603	Artificial Intelligence	Employability/ Entrepreneurship/ Skill development
15UCS607	Technical Project	Employability/ Entrepreneurship/ Skill development
15UIT608	Mobile Applications Development Laboratory	Employability/ Entrepreneurship/ Skill development
15UME701	Project Management and Finance	Employability/ Entrepreneurship/ Skill development
15UCS702	Insight into Cloud Computing	Employability/ Entrepreneurship/ Skill development
15UCS703	Data Science	Employability/ Entrepreneurship/ Skill development

15UCS706	Cloud Computing Laboratory	Employability/ Entrepreneurship/ Skill development
15UCS707	Data Science Laboratory	Employability/ Entrepreneurship/ Skill development
15UME801	Professional Ethics	Employability/ Skill development
15UCS804	Project Work	Employability/ Entrepreneurship/ Skill development
15UCS901	Multicore Programming	Employability/ Entrepreneurship/ Skill development
15UCS902	Information Storage Management*	Employability/ Entrepreneurship/ Skill development
15UCS903	Network Analysis and Management	Employability/ Entrepreneurship/ Skill development
15UCS904	Data Mining	Employability/ Entrepreneurship/ Skill development
15UCS905	Distributed Computing	Employability/ Entrepreneurship/ Skill development
15UCS906	Game Programming	Employability/ Entrepreneurship/ Skill development
15UCS907	Knowledge Based Decision Support Systems	Employability/ Entrepreneurship/ Skill development
15UCS908	C# and .NET Framework	Employability/ Entrepreneurship/ Skill development
15UCS909	Natural Language Processing	Employability/ Entrepreneurship/ Skill development
15UCS910	Building Internet of Things	Employability/ Entrepreneurship/ Skill development
15UCS911	Grid Computing	Employability/ Entrepreneurship/ Skill development
15UCS912	Nano Computing	Employability/ Entrepreneurship/ Skill development
15UCS913	Cyber Forensics	Employability/ Entrepreneurship/ Skill development
15UCS914	Quantum Computing	Employability/ Entrepreneurship/ Skill development
15UCS915	Principles of Software Architecture	Employability/ Entrepreneurship/ Skill development

15UCS916	Cryptography	Employability/ Entrepreneurship/ Skill development
15UCS917	Semantic Web Paradigm	Employability/ Entrepreneurship/ Skill development
15UCS918	Information Retrieval	Employability/ Entrepreneurship/ Skill development
15UCS919	Human Computer Interaction	Employability/ Entrepreneurship/ Skill development
15UCS920	Green Computing	Employability/ Entrepreneurship/ Skill development
15UCS921	E-Learning Techniques	Employability/ Entrepreneurship/ Skill development
15UCS922	Neural Networks and its Applications	Employability/ Entrepreneurship/ Skill development
15UCS923	Fuzzy logic	Employability/ Entrepreneurship/ Skill development
15UCS924	Mobile computing	Employability/ Skill development
15UCS925	Business Intelligence and its applications*	Employability/ Entrepreneurship/ Skill development
15UCS926	Web Services and Service Oriented Architecture	Employability/ Entrepreneurship/ Skill development
15UCS927	Machine Learning Algorithms	Employability/ Entrepreneurship/ Skill development
15UIT910	Building Enterprise Applications*	Employability/ Entrepreneurship/ Skill development
15UIT911	Software Testing*	Employability/ Entrepreneurship/ Skill development
15UIT924	Agile Software Development*	Employability/ Entrepreneurship/ Skill development

Annexure
Classification of Courses

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Analysis of Algorithms and Data Structures	15PCS101	Employability
Machine Learning Techniques	15PCS102	Employability
Advanced Operating Systems	15PCS103	Employability
Advanced Data Structures Laboratory	15PCS104	Employability , Skill Development
Data Science and Big Data Analytics	15PCS201	Employability , Skill Development
Internals of Android	15PCS202	Employability
Cloud Infrastructure Laboratory	15PCS203	Employability
Industrial Training and Internship	15PCS204	Employability , Entrepreneurship
Network Security	15PCS205	Employability
Multicore Architecture	15PCS301	Employability
Mobile and pervasive Computing	15PCS303	Employability
Software Quality Assurance	15PCS503	Employability
Open source Systems and Networking	15PCS504	Employability
Web Data Mining	15PCS508	Employability
Image Processing and Analysis	15PCS513	Employability , Skill Development
Project Phase I	15PCS302	Employability , Entrepreneurship, Skill Development
Project Work phase II	15PCS401	Employability , Entrepreneurship , Skill Development



SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution | Accredited 'A' Grade by NAAC)





PULLOOR, KARIAPATTI – 626 115

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING BOARD OF STUDIES

MINUTES OF THE MEETING

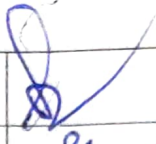
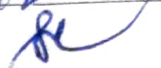
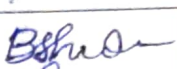


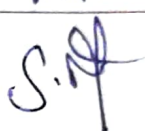
The seventh meeting of the Board of Studies of Department of Computer Science and Engineering was held on 13.09.2019 in the CSE Seminar Hall, Sethu Institute of Technology, Pulloor, Kariapatti at 10.00 A.M.

The following members were present,

S.No	Members	Name	Designation	Signature
1.	Chairman	Dr. C. Callins Christiyana	Professor & Head, Department of CSE, Sethu Institute of Technology, Pulloor.	
2.	University Nominee	Dr.D. Manjula	Professor, Department of CSE, CEG Campus, Anna University, Chennai	
3.	Academic Expert	Dr.P. Deepalakshmi	Dean, School of Computing, Kalasalingam University, Krishnankoil	
4.	Academic Expert	Dr. P. Subathra	Professor & Head, Department of Information Technology, Kamaraj College of Engineering and Technology, SPGC Nagar, Virdhunagar	

5.	Industry Nominee	Mr.C.Rajkumar	Director (Chief Architect), Cognizant Technology Solutions, Chennai, India	C.Rajkumar
6.	Alumni Nominee	Mr.V.Muneeswaran	Associate Professor, Department of Computer Science and Engineering, Sri Krishna College of Engineering & Technology, Coimbatore.	V.Muneeswaran
7.	Faculty Members	Dr.S.Subashini	Professor	S.Subashini 13/9/19
8.		Dr.M.Parvathy	Professor	M.P. 13/9/19
9.		Dr.M.M.Gowthul Alam	Professor	Gowthul 13/9/19
10.		Mr.P.Suresh	Associate Professor	Suresh 13/9/19
11.		Mr.N.AlangudiBalaji	Associate Professor	N.AlangudiBalaji 13/9/19
12.		Mr.K.Sathish Kumar	Associate Professor	K.Sathish Kumar 13/9/19
13.		Ms.D.Abithakumari	Associate Professor	D.Abithakumari 13/9/19
14.		Mr.R.Rajaguru	Associate Professor	R.Rajaguru 13/9/19
15.		Dr.M.Malathi	Associate Professor	M.Malathi 13/9/19
16.		Dr.T.Sampradeepraj	Associate Professor	T.Sampradeepraj 13/9/19
17.		Dr.C.Yesubai Rubavathi	Associate Professor	C.Yesubai Rubavathi 13/9/19
18.		Dr.P.Ithayarani	Associate Professor	P.Ithayarani 13/9/19
19.		Dr.P.Senthil Pandian	Associate Professor	P.Senthil Pandian 13/9/19
20.		Dr.R.Rubesh Selvakumar	Associate Professor	R.Rubesh Selvakumar 13/9/19
21.		Dr.A.R.Rajeswari	Associate Professor	A.R.Rajeswari 13/9/19
22.		Dr.E.Sivajothi	Associate Professor	E.Sivajothi 13/9/19

23.	Ms.M.Mathinakani	Asst. Professor (S.G)	<i>M Math</i>
24.	Ms.B.Pandeeswari	Asst. Professor (S.G)	<i>B Pandeeswari</i>
25.	Ms.G.Vairasuganthi	Asst. Professor (S.G)	<i>G Vairasuganthi</i>
26.	Ms.M.Poomani@Punitha	Asst. Professor (S.G)	<i>Poomani</i>
27.	Ms.C.Jeyalakshmi	Asst. Professor (S.G)	<i>Jeyalakshmi</i>
28.	Ms.S.Meenakshi	Asst. Professor (S.G)	<i>S Meenakshi</i>
29.	Ms.S.Selvi	Asst. Professor (S.G)	<i>S Selvi</i>
30.	Mr.B.Guruprakash	Asst. Professor (S.G)	<i>B Guruprakash</i>
31.	Ms.K.Nagalakshmi	Asst. Professor (S.G)	<i>K Nagalakshmi</i>
32.	Mr.R.Umesh	Asst. Professor (S.G)	<i>R Umesh</i>
33.	Ms.B.Lalitha	Asst. Professor (S.G)	<i>B Lalitha</i>
34.	Mr.G.Karpaga Kannan	Asst. Professor (S.G)	<i>G Karpaga Kannan</i>
35.	Mr.T.Siva	Asst. Professor	<i>T Siva</i>
36.	Ms.S.Priyadharsini	Asst. Professor	<i>S Priyadharsini</i>
37.	Mrs.S.Gospelina Christiana	Asst. Professor	<i>S Gospelina Christiana</i>
38.	Ms.S.Sangeetha	Asst. Professor	<i>S Sangeetha</i>
39.	Mr.K.Peer Mohamed	Asst. Professor	<i>K Peer Mohamed</i>
40.	Mr.H.Mathew Joel Arulanandhan	Asst. Professor	<i>H Mathew Joel Arulanandhan</i>
41.	Mr.K.A. Mohammed Faiz	Asst. Professor	<i>K A Mohammed Faiz</i>
42.	Mr.S.Sathish Kumar	Asst. Professor	<i>S Sathish Kumar</i>
43.	Ms.K.Nithya	Asst. Professor	<i>K Nithya</i>
44.	Ms.V.VijayaPriya	Asst. Professor	<i>V VijayaPriya</i>

45.	Mr.I.Noor Mohamed	Asst. Professor	
46.	Mr.S.DuraiPandi	Asst. Professor	
47.	Mr.B.Sivananthan	Asst. Professor	
48.	Ms.M.Sanmugapriya	Asst. Professor	
49.	Ms.C.Abinaya Devi	Asst. Professor	
50.	Ms.S.Madhu Sangeetha	Asst. Professor	

The BoS meeting was started with the warm welcome from the Chairman of the Board.

The Chairman gave a brief presentation on autonomous status conferred to the Institution and NAAC accreditation with 'A' grade. She then highlighted the University ranks, programs organized, performance of students and faculty in NPTEL online courses, grants received and SITWARE, the student association of the Department of Computer Science and Engineering.

1.0 B.E Computer Science and Engineering

Agenda 1: Revision of Department Vision, Mission, PEOs, POs and PSOs

Vision and Mission statements of the Institution and the Department were presented to the members of the Board. The Chairman demonstrated the alignment of vision and mission statements of the Department to the Institutional vision and mission statements.

Dr.D.Manjula, suggested to modify the Mission statement 3 into **"Cultivating interpersonal traits, problem solving skills, critical and rationale thinking capabilities for the development of students leading to innovators, leaders and entrepreneurs"** since the term "comprehensive personality development" in the early statement was more general. The BoS resolved to accept the Vision and Mission statements of the Department with the changes proposed by Dr.D.Manjula.

The Programme Educational Objectives (PEO), Programme Outcome (PO) aligned with Graduate Attributes, and Programme Specific Outcome (PSO) were presented by the Chairman of the Board.

Dr.D.Manjula, suggested to implement slight modification to the PEO 3 on Lifelong Learning by changing the terms “by engaged” into “engaging” since the early term gave a meaning in past tense. The updated PEO 3 on Lifelong Learning is ,

PEO 3: Graduates will hone their professional expertise engaging in research and sustained learning activities.

The BoS resolved to accept modification in PEO 3. The modified statements are given in Annexure.I.

Agenda 2: Analysis of the stakeholders’ feedback on curriculum and syllabi

The Chairman put forth draft curriculum for the regulation R-2019. She pointed out that the AICTE model curriculum, NASSCOM technology forecast, CII technology forecast, Programme Specific Criteria by ABET, SIT CSE R-2015 curriculum and stake holders feedback were utilized as the design references for drafting the R-2019 curriculum.

The feedback from the stakeholders, viz. employers, alumni, faculty from other Institutions, parent, internal faculty, and students and the corresponding resolutions made in the Programme Assessment Committee (PAC) meetings were presented by the Chairman of the Board. The same has been given in Annexure II. After a brief discussion on the feedback and PAC resolutions, the BoS resolved to accept the PAC resolutions.

- Either one of C++ and Java can be given as a programming course in object oriented programming principles.
- Mobile Applications Development can be conducted as Lab course.

Agenda 3: Approval of improvements made in the syllabi under R-2015

The Chairman sought for the improvements to be made in the syllabi under the regulation R-2015. The BoS resolved to revise the syllabus for the course **15UCS927 - Machine Learning Algorithms** since the current syllabus does not have sequence in the topics.

Agenda 4: Mapping of curriculum and syllabi with PSC

Mapping of the curriculum and syllabus of the proposed regulation R-2019 with the Programme Specific Criteria (PSC) was presented to the Board of members by the Chairman and the Board resolved to accept the mapping.

Agenda 5: Classification of courses

The classification of the courses under regulation R-2019 based on having focus to one or more of the categories of employability, entrepreneurship and skill development was presented to the Board by the Chairman. The BoS resolved to accept the classification. The Classification of courses is given in annexure III.

Agenda 6: Approval of value added courses

The Chairman requested the BoS members to suggest suitable courses that will impart transferable and life skills to the students.

Dr. Subathra P, Academic Expert, suggested Personal Finance Management and Mr. Rajkumar Chandrasekar, Industry Nominee, suggested Robot Process Automation as suitable value added courses imparting transferable and life skills. The BoS resolved to include them as value added courses with 30 contact hours. The BoS resolved to accept the courses Ethical Hacking and Server Installation and Configuration which were suggested by the students as the value added courses.

Agenda 7: Approval of list of examiners from other colleges

A list of faculty from other colleges to act as examiners for practical and project viva-voce, question paper setters, external evaluators of answer scripts, and invigilators for end semester examinations was submitted to the BoS by the Chairman. The BoS resolved to approve the list of examiners.

Agenda 8: Approval of curriculum and syllabi under R-2019

The Board members reviewed and recommended the Program Articulation Matrix of R2019 and Course Articulation Matrices framed for first year course of R2019. The Board members conducted discussions on the proposed curriculum under regulation R—2019 and syllabi of the first two semesters.

The Board members suggested the following:

- Dr.Manjula D, University Nominee,suggested to:
 - Introduce C language as a first programming language instead of Python. *BoS resolved to have Python as introductory programming language course.*
 - Reduce the number of programming language courses. *BoS resolved to offer one or two programming language courses with comprehensive coverage core principles of programming languages.*
 - Include a course on security in the core. *BoS resolved to include a course on Cryptography and Network Security in the core.*
- Dr. Deepalakshmi P, Academic Expert, suggested to:
 - Offer the course Mobile Applications Developmentas pure lab component with full stack programming. *BoS resolved to offer the course as a 1.5 credit laboratory course.*
 - Introduce Cloud Virtualization as an elective that will help to enhance placement opportunities in network engineering domain to the students. *BoS resolved to update the syllabus of the course Cloud Computing.*
 - Include a course on basic electrical and electronics in the first year. *BoS resolved to include basics electrical and electronics as units of study in Digital Electronics course.*
- Dr. Subathra P, Academic Expert, suggested to:
 - Introduce object oriented programming through Java programming language rather than having both C++ and Java as separate courses. *BoS resolved to exclude C++ and have Java as a programming language for Object Oriented Programming concepts.*
 - Increase the lecture hours allocated to the course Operating Systems. *BoS resolved to increase the contact hours for the course.*

- Mr.Rajkumar Chandrasekar, Industry Nominee, suggested to:
 - Change the title of the course Agile Software Methodologies in to Software Engineering Principles and to include the topics of standard Agile and devops. *BoS resolved to modify the title and include topics of standard Agile and devops.*
 - Enforce the students to implement the concepts of data structures in any one of the programming languages. *BoS resolved to implement data structures either in C or Python.*

Based on the suggestions by the members, BoS resolved to include the following new courses for **B.E(CSE) under regulation R-2019.**

- Problem Solving and Python Programming
- Problem solving and Python Programming Laboratory
- Introduction to Computer Science and Engineering
- Software Engineering Practices
- Creative Thinking and Innovation
- Internet of Things Laboratory
- Graph Theory
- Parallel and Distributed Algorithms
- Information theory and Coding
- Embedded Systems
- Fault Tolerant Computing
- Ad Hoc and Sensor Networks
- Expert Systems
- Image Processing
- Digital Signal Processing
- Blockchain Technology
- Cyber Security
- Mobile and Pervasive Computing
- Mixed Reality
- Advanced Java Programming
- XML and Webservices
- Distributed Systems

- Robotics and Applications

Agenda 9: Percentage of changes in the Syllabi of R2019 of B.E(CSE):

The BoS resolved to accept the changes in the following courses:

S.No.	Course Code & Name	Changes made in the Syllabi	Percentage of Changes
1	19UCS112 – Engineering Fundamentals Laboratory	Installation of Linux operating system and Installation of software in Linux	33%
2	19UCS206 – Programming using C	File concepts are included in the syllabi at the weightage of one unit	20%

The Board of Department of Computer Science and Engineering approves and recommends the Curriculum and Syllabi of B.E. Computer Science and Engineering under autonomous regulations 2019 with the above modifications. The B.E(CSE) curriculum is given in Annexure IV.

Agenda 10: Review of CO and PO attainment:

- The direct and indirect tools for the assessment of COs and POs are reviewed and recommended.
- The target of CO attainment of theory and Lab courses for R2015 courses are reviewed and recommended.
- The target of PO attainment for each PO is reviewed and recommended.
- Course Outcome attainment of the courses and corresponding PO attainment in the academic year 2018-2019 Even and the corresponding resolutions in the PAC meeting dated 04.09.2019 are reviewed by the members. The members recommended the suggestions in PAC.
- PO/PSO attainment of the batch 2015-2019 is analyzed. The observations on the attainment and the corresponding action taken to improve the attainment are reviewed and recommended.

2.0 M.E Computer Science and Engineering

The members thoroughly discussed the curriculum and Syllabi for **M.E. Computer Science and Engineering** followed under autonomous regulations 2019 and suggested the following

- Dr. Deepalakshmi P, Academic Expert, suggested to
 - Combine Advanced Data Structures and Advanced Algorithms into a single course and include one more core course in place of the vacant. The BOS resolved to include Advanced Database Technology as the theory and Lab by combining Advanced Data structures and Advanced Algorithms.
- Dr. Manjula D, University Nominee, suggested to:
 - Shift the Soft computing course from core to elective and to include Cloud computing course as theory and lab. The BOS resolved to accept the changes.
- Mr. Rajkumar Chandrasekar, Industry Nominee, suggested to:
 - Include graph concepts in Advanced Data Structures and Advanced Algorithms
 - Give “Blockchain” course as value added courses.

The classification of the courses under Regulation-2019 focused on the following categories of employability, entrepreneurship and skill development courses were presented to the Board by the Chairman. The BoS resolved to accept the classification. The Classification of courses is given in annexure III.

Based on the suggestions by the members, BoS resolved to include the following new courses for **M.E(CSE) under regulation R-2019**.

- Research Methodology and IPR
- Advanced Data base Technologies
- Advanced Data base Technologies Laboratory
- Image Processing and Analysis Laboratory
- Big Data Analytics
- Data Storage Technologies and Networks
- Web Analytics and Development
- Digital Forensics
- Biometrics

- Soft Computing
- Security in Computing
- Deep Learning Techniques
- Introduction to Intelligent Systems
- Essential of HCI
- Optimization Techniques
- Compiler for HPC
- Cluster and Grid Computing
- Parallel Algorithms
- Wireless Access Technologies
- Embedded Software Development
- Business Analytics

The BoS resolved to accept the changes in the following courses in
M.E(CSE) Syllabus:

S.No.	Course Code & Name	Changes made in the Syllabi	Percentage of Changes
1	19PCS101- Advanced Data Structures and Algorithms	Fundamentals, Geometric Algorithms are removed. Advanced Concurrent Structures, Graph Algorithms, Advanced Algorithms are added	50%
2	19UCS201- Image processing and Analysis	Edge Detection, Morphology are removed. Basic Relationship between Pixels, Feature Extraction, Texture Pattern and Classes are added	35%
3	19PCS103-Advanced Data Structures Laboratory	Convex Hull , Implementation of segment Trees , Parallel Algorithm for Array Max ,Parallel Algorithm for Matrix Multiplication are removed. hashing and concurrent hashing Flow-network algorithms	80%

		Approximation algorithms / randomized algorithms. Parallel sorting algorithms are added.	
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- The Chairman thanked the members for their contribution and suggestions in framing the curriculum and syllabi for B.E. Computer Science and Engineering and M.E Computer Science and Engineering under Autonomous regulations. She thanked the members of the Board on behalf of the Department of Computer Science and Engineering for their wonderful suggestions and contribution to frame the curriculum and syllabi.


Chairman
Board of Studies

Computer Science and Engineering

Chairperson
Board of Studies
Computer Science & Engineering
Sethu Institute of Technology
Kariapatti - 628 115

Annexure III

Classification of Courses

Course Code	Name of the Course	Activities with direct bearing on Employability/ Entrepreneurship/ Skill development
19UCS108	Problem Solving and PYTHON programming	Employability/ Entrepreneurship/ Skill development
19UCS110	Problem Solving and PYTHON programming Laboratory	Employability/ Entrepreneurship/ Skill development
19UCS112	Engineering Fundamentals Laboratory	Skill Development
19UCS205	Introduction to computer science and Engineering	Employability
19UCS206	Programming Using C	Employability/ Skill development
19UCS211	C Programming Laboratory	Employability/ Skill development
19UCS302	Data Structures	Employability/ Skill development
19UCS303	Digital Electronics	Employability
19UCS304	Object Oriented Programming using Java	Employability/ Entrepreneurship/ Skill development
19UCS305	Operating Systems	Employability/ Skill development
19UCS306	Computer Organization	Employability
19UCS307	Seminar	Skill Development
19UCS308	Data Structures Laboratory	Employability/ Skill development
19UCS309	Java Programming Laboratory	Employability/ Entrepreneurship/ Skill development
19UCS310	Operating Systems Laboratory	Employability/ Skill development
19UCS402	Computer Communications and Networks	Employability
19UCS403	Design and Analysis of Algorithms	Employability/ Skill development
19UCS404	Database System Concepts	Employability/ Skill development
19UCS407	Computer Communications and Networks Laboratory	Employability
19UCS408	Database System Concepts Laboratory	Employability/ Skill development
19UCS501	Internet and Web Technology	Employability/ Entrepreneurship/ Skill development

19UCS502	Software Engineering Practices	Employability/ Entrepreneurship
19UCS503	Mobile Applications Design and Development	Employability/ Entrepreneurship/ Skill development
19UCS504	Theory of Computation	Employability
19UCS601	Principles of Compiler Design	Employability
19UCS602	Cryptography and Network Security	Employability
19UCS603	Artificial Intelligence and Machine Learning	Employability/ Skill development
19UCS607	Product Development Project	Employability/ Entrepreneurship/ Skill development
19UCS608	Artificial Intelligence and Machine Learning Laboratory	Employability/ Skill development
19UCS702	Cloud Computing	Employability/ Entrepreneurship/ Skill development
19UCS703	Building Internet of Things	Employability/ Entrepreneurship/ Skill development
19UCS707	Summer Internship	Employability/ Entrepreneurship/ Skill development
19UCS708	Cloud Computing Laboratory	Employability/ Entrepreneurship/ Skill development
19UCS709	Internet of Things Laboratory	Employability/ Entrepreneurship/ Skill development
19UCS801	Project Work	Employability/ Entrepreneurship/ Skill development
19UCS901	Graph Theory	Employability/ Entrepreneurship/ Skill development
19UCS902	Parallel and Distributed Algorithms	Employability/ Entrepreneurship/ Skill development
19UCS903	Quantum Computing	Employability/ Entrepreneurship/ Skill development
19UCS904	Information theory and Coding	Employability/ Entrepreneurship/ Skill development
19UCS905	Embedded Systems	Employability/ Entrepreneurship/ Skill development
19UCS906	Fault Tolerant Computing	Employability/ Entrepreneurship/ Skill development
19UCS907	Ad Hoc and Sensor Networks	Employability/ Entrepreneurship/ Skill development
19UCS908	Computer Graphics	Employability/ Entrepreneurship/ Skill development
19UCS909	Data Mining	Employability/ Entrepreneurship/ Skill development

19UCS910	Neural Networks and Deep Learning	Employability/ Entrepreneurship/ Skill development
19UCS911	Speech and Natural Language Processing	Employability/ Entrepreneurship/ Skill development
19UCS912	Data Analytics	Employability/ Entrepreneurship/ Skill development
19UCS913	Information Retrieval	Employability/ Entrepreneurship/ Skill development
19UCS914	Expert Systems	Employability/ Entrepreneurship/ Skill development
19UCS915	Image Processing	Employability/ Entrepreneurship/ Skill development
19UCS916	Introduction to Digital Signal Processing	Employability/ Entrepreneurship/ Skill development
19UCS917	Human Computer Interaction	Employability/ Entrepreneurship/ Skill development
19UCS918	Blockchain Technology	Employability/ Entrepreneurship/ Skill development
19UCS919	Cyber Security	Employability/ Entrepreneurship/ Skill development
19UCS920	Multicore Programming	Employability/ Entrepreneurship/ Skill development
19UCS921	Information Storage Management	Employability/ Entrepreneurship/ Skill development
19UCS922	C# and .NET Framework	Employability/ Entrepreneurship/ Skill development
19UCS923	Game Programming	Employability/ Entrepreneurship/ Skill development
19UCS924	Fuzzy logic	Employability/ Entrepreneurship/ Skill development
19UCS925	Mobile and Pervasive computing	Employability/ Entrepreneurship/ Skill development
19UCS926	Business Intelligence and its applications	Employability/ Entrepreneurship/ Skill development
19UCS927	Mixed Reality	Employability/ Entrepreneurship/ Skill development
19UCS928	Green Computing	Employability/ Entrepreneurship/ Skill development
19UCS929	Advanced Java Programming	Employability/ Entrepreneurship/ Skill development
19UCS930	XML and Webservices	Employability/ Entrepreneurship/ Skill development
19UCS931	Distributed Systems	Employability/ Entrepreneurship/ Skill development
19UCS932	Robotics and Applications	Employability/ Entrepreneurship/ Skill development
19UCS933	E-Learning Concepts	Employability/ Entrepreneurship/ Skill development

Annexure
Classification of Courses

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Advanced Data Structures and Algorithms	19PCS101	Employability
Advanced Database Technologies	19PCS102	Employability
Advanced Data Structures Lab	19PCS103	Employability
Advanced Database Technologies Lab	19PCS104	Employability
Machine Learning Techniques	19PCS505	Employability
Research Methodology and IPR	19PGM701	Employability, Entrepreneurship ,Skill development
Pedagogy Studies(Audit Course I)	19PGM801	Employability
Image Processing and Analysis	19PCS201	Skill Development
Cloud Computing Technologies	19PCS202	Employability
Image Processing and Analysis Laboratory	19PCS203	Employability
Cloud Computing Technologies Laboratory	19PCS204	Employability
Security in Computing	19PCS512	Employability
Mini Project with Seminar	19PCS205	Employability ,Entrepreneurship
English for Research Paper Writing(Audit Course 2)	19PGM802	Entrepreneurship
Big Data Analytics	19PCS504	Employability
Deep Learning Techniques	19PCS513	Employability
Smart Sensors and Internet of Things	19PCS525	Employability
Dissertation –I/ Industrial Project - I	19PCS301	Employability ,Entrepreneurship, Skill Development
Dissertation –II	19PCS401	Employability , Entrepreneurship , Skill Development