



St. MARTIN'S ENGINEERING COLLEGE

- ESTD : 2002 • A Non Minority Institution
- Affiliated to JNTUH • Approved by AICTE
- ISO 9001:2008 Certified • Accredited by NAAC & NBA
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SMEC/CSE/BOS/2019-20 – 01

Date: 08/02/2020

MINUTES OF MEETING -BOARD OF STUDIES (BOS)

The Meeting of the Board of Studies of CSE was held on 08th Feb 2020 at 11.00 AM at IQAC, MG Block. The following members were present.

S. No.	Name of the Faculty	Designation	Signature
1	Dr. P. Udayakumar, Professor & HOD	Chairman	
2	Dr. Miryala Dhanalakshmi, Professor, Dept of IT, JNTUH CE, Jagtial	University Nominee	
3	Dr. D. Baswaraj, Professor, Dept of CSE, CMRIT, Hyd	Educationist	
4	Dr. K. Uma Pavan Kumar, Assoc.Prof. & HOD, Dept of CSE, MRIT, Hyd	Educationist	
5	Mrs. Lalitha Kumari Guntupalli, Director-Project Management, Netcracker Technologies Pvt Ltd. Hyd	Industrialist	
6	Dr. A. Amarendra Babu, Professor	Faculty Member	 8 Feb 2020
7	Dr. M. Venkata Rao, Professor	Faculty Member	 08/02/2020
8	Dr. S. A. Kalaiselvan, Professor	Faculty Member	 8/2/2020
9	Dr. N. Satheesh, Professor	Faculty Member	 8/2/20
10	Dr. P. K. A. Chitra, Associate Professor	Faculty Member	 8/2/2020
11	Dr. M. Anuradha, Associate Professor	Faculty Member	 8/2/2020
12	Dr. T. Poongothai, Associate Professor	Faculty Member	



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S. No.	Name of the Faculty	Designation	Signature
13	Dr. Govindharajulu, Associate Professor	Faculty Member	
14	Mr. A. Shrabhan Kumar, Associate Professor	Faculty Member	
15	Ms. Ramya Reddy, Developer, IBI Groups, Hyd	Alumni Member	

The meeting began with Chairman, Board of Studies extending a warm welcome to all the members participating in the meeting.

Points Discussed

The following proposed subjects and the detailed syllabi for First & Second year were presented, discussed and approved.

S. No.	Theory	Laboratory
I Year II Semester		
1	1. Programming for Problem Solving	1. Programming for Problem Solving Lab
II Year I Semester		
2	1. R Programming 2. Computer Organization and Architecture 3. Data Structures Using C 4. Analog and Digital Electronics	1. R Programming Lab 2. Data Structures Lab Using C 3. Analog and Digital Electronics Lab 4. IT Workshop Lab
II Year II Semester		
3	1. Operating Systems 2. Python Programming 3. Java Programming 4. Discrete Mathematics	1. Operating Systems Lab 2. Python Programming Lab 3. Java Programming Lab

The following points were discussed

- I. The following course structure for all four years of B. Tech, CSE Program is Presented and discussed.

I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Linear Algebra and Calculus	3	1	0	4
2	CH102BS	Engineering Chemistry	3	1	0	4
3	EE106ES	Basic Electrical Engineering	3	0	0	3
4	ME107ES	Engineering Workshop	1	0	3	2.5
5	EN103HS	Professional English	2	0	0	2
6	CH104BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN105HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
9	TS109MC	Technical Seminar**	0	0	2	1
		Induction Programme				
		Total Credits	12	2	12	20

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Advanced Calculus	3	1	0	4
2	AP202BS	Applied Physics	3	1	0	4
3	CS205ES	Programming for Problem Solving	3	1	0	4
4	ME206ES	Engineering Graphics	1	0	4	3
5	AP203BS	Applied Physics Lab	0	0	3	1.5
6	CS207ES	Programming for Problem Solving Lab	0	0	3	1.5
7	ES204MC	Environmental Science	0	0	2	1
8	MP209MC	Micro Projects**	0	0	2	1
		Total Credits	10	3	14	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS301PC	R Programming**	3	0	0	3
2	MA302BS	Computer Oriented Statistical Methods	3	1	0	3
3	CS303PC	Computer Organization and Architecture	3	0	0	3
4	CS304PC	Data Structures Using C	3	1	0	3
5	EC305ES	Analog and Digital Electronics	3	0	0	3
6	CS306PC	R Programming Lab**	0	0	3	1.5
7	CS307PC	Data Structures Lab Using C	0	0	3	1.5
8	EC308ES	Analog and Digital Electronics Lab	0	0	3	1.5
9	CS309PC	IT Workshop Lab	0	0	3	1.5
		Total Credits	15	2	12	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS401PC	Operating Systems	3	0	0	3
2	CS402PC	Python Programming	3	1	0	4
3	CS403PC	Java Programming	3	1	0	4
4	SM404MS	Business Economics and Financial Analysis	3	0	0	3
5	CS405PC	Discrete Mathematics	3	0	0	3
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Python Programming Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	GS409MC	Gender Sensitization**	0	0	2	0
		Total Credits	15	2	10	21

** - New Subject

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS501PC	Formal Languages & Automata Theory	3	0	0	3
2	CS502PC	Software Engineering	3	0	0	3
3	CS503PC	Database Management System	3	0	0	3
4	CS504PC	Computer Networks	3	0	0	3
5		Professional Elective-I	3	0	0	3
6	SM505MS	Human Rights	3	0	0	3
7	CS506PC	Software Engineering Lab	0	0	3	1.5
8	CS507PC	Database Management System Lab	0	0	3	1.5
9	EN508HS	Advanced Communication Skills Lab	0	0	2	0
10	*MC510	Intellectual Property	3	0	0	0
		Total Credits	21	0	8	21

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS601PC	Data Warehousing and Data Mining	3	1	0	4
2	CS602PC	Compiler Design	3	0	0	3
3	CS603PC	Design and Analysis of Algorithms	3	0	0	3
4		Professional Elective –II	3	0	0	3
5		Open Elective-I	3	0	0	3
6	CS604PC	Data Warehousing and Data Mining Lab	0	0	3	1.5
7	CS605PC	Compiler Design Lab	0	0	3	1.5
8	CS606PC	Industry Oriented Mini Project	0	0	3	2
		Total Credits	15	3	8	21

Professional Elective-I

CS511PE	Information Theory & Coding
CS512PE	Introduction to Artificial Intelligence**
CS513PE	Concurrent Programming
CS514PE	Computer Graphics
CS515PE	Advanced Operating Systems

Professional Elective – II

CS521PE	Image Processing
CS522PE	Data Analytics
CS523PE	Speech and Natural Language Processing**
CS524PE	Distributed Databases
CS525PE	Natural Language Processing

** - New Subject

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	SM701MS	Professional Ethics and Human Values	3	0	0	3
2	CS702PC	Hadoop & Big Data Analytics	3	0	0	3
3		Professional Elective – III	3	0	0	3
4		Open Elective – II	3	0	0	3
5	CS703PC	Hadoop & Big Data Analytics Lab	0	0	3	1.5
6	CS751PE CS752PE CS753PE CS754PE	PE – III Lab #	0	0	3	1.5
7	CS755PW	Project Phase – I	0	0	12	6
		Total Credits	17	0	17	21

IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Open Elective – III	3	0	0	3
2		Professional Elective – IV	3	0	0	3
3		Professional Elective – V	3	0	0	3
4	CS801PW	Major Project – Phase – II	0	0	12	6
		Total Credits	9	0	15	15

Professional Elective - III

CS751PE	Web Technologies
CS752PE	Network Programming
CS753PE	Mobile Application Development
CS754PE	Internet of Things

Professional Elective – IV

CS881PE	Cloud Computing
CS882PE	Network Programming and Management
CS883PE	Software Testing Methodology
CS884PE	Multi Media Systems

Professional Elective - V

CS885PE	Neural Network & Deep Learning
CS886PE	Computer Forensics
CS887PE	Blockchain Technology
CS888PE	Software Process and Project Management

**LIST OF OPEN ELECTIVES OFFERED BY VARIOUS DEPARTMENTS FOR
B.TECH. III AND IV YEARS**

S. No.	Name of the Department Offering Open Electives	Open Elective – I (Semester – V)	Open Elective – II (Semester – VI)
1	Aeronautical Engg.	AE511OE: Introduction to Space Technology	AE621OE: Introduction to Aerospace Engineering
2	Automobile Engg.	CE511OE: Disaster Management MT512OE: Intellectual Property Rights	MT621OE: Data Structures MT622OE: Artificial Neural Networks
3	Biomedical Engg.	BM511OE: Reliability Engineering	BM621OE: Medical Electronics
4	Civil Engg.	CE511OE: Disaster Management.	CE621OE: Remote Sensing and GIS CE622OE: Geo-Informatics CE623OE: Intellectual Property Rights
5	Civil and Environmental Engg.	CE511OE: Disaster Management	CN621OE: Environmental Impact Assessment CE623OE: Intellectual Property Rights
6	Computer Science and Engg. / Information Technology	CS511OE: Operating Systems CS512OE: Database Management Systems	CS621OE: Java Programming CS622OE: Software Testing Methodologies CS623OE: Cyber Security
7	Electronics and Communication Engg. / Electronics and Telematics Engg.	EC511OE: Principles of Electronic Communications	EC621OE: Principles of Computer Communications and Networks
8	Electronics and Computer Engg.	EM511OE: Scripting Languages	EM621OE: Soft Computing Techniques
9	Electrical and Electronics Engg.	EE511OE: Non-Conventional Power Generation EE512OE: Electrical Engineering Materials EE513OE: Nanotechnology	EE621OE: Design Estimation and Costing of Electrical Systems EE622OE: Energy Storage Systems EE623OE: Introduction to Mechatronics
10	Electronics and Instrumentation Engg.	EI511OE: Electronic Measurements and Instrumentation	EI621OE: Industrial Electronics
11	Mechanical Engg.	ME511OE: Optimization Techniques ME512OE: Computer Graphics ME513OE: Introduction	ME621OE: World Class Manufacturing ME622OE: Fundamentals of Robotics ME623OE: Fabrication

		to Mechatronics ME514OE: Fundamentals of Mechanical Engineering	Processes
12	Mechanical Engg. (Material Science and Nanotechnology)	NT511OE: Fabrication Processes NT512OE: Non destructive Testing Methods NT513OE: Fundamentals of Engineering Materials	NT621OE: Introduction to Material Handling NT622OE: Non-Conventional Energy Sources NT623OE: Robotics
13	Mechanical Engg. (mechatronics)	MT511OE: Analog and Digital I.C. Applications MT512OE: Intellectual Property Rights MT513OE: Computer Organization	MT621OE: Data Structures MT622OE: Artificial Neural Networks MT623OE: Industrial Management
14	Metallurgical and Materials Engg.	MM511OE: Materials Characterization Techniques	MM621OE: Science and Technology of Nano Materials MM622OE: Metallurgy of Non Metallurgists
15	Mining Engg.	MN511OE: Introduction to Mining Technology	MN621OE: Coal Gasification, Coal Bed Methane and Shale Gas
16	Petroleum Engg.	PE511OE: Materials Science and Engineering PE512OE: Renewable Energy Sources PE513OE: Environmental Engineering	PE621OE: Energy Management and Conservation PE622OE: Optimization Techniques PE623OE: Entrepreneurship and Small Business Enterprises

S. No.	Name of the Department Offering Open Electives	Open Elective –III (Semester – VIII)
1	Aeronautical Engg.	AE831OE: Air Transportation Systems AE832OE: Rockets and Missiles
2	Automobile Engg.	AM831OE: Introduction to Mechatronics AM832OE: Microprocessors and Microcontrollers
3	Biomedical Engg.	BM831OE: Telemetry and Telecontrol BM832OE: Electromagnetic Interference and Compatibility
4	Civil Engg.	CE831OE: Environmental Impact Assessment CE832OE: Optimization Techniques in Engineering CE833OE: Entrepreneurship and Small Business Enterprises
5	Civil and Environmental Engg.	CN831OE: Remote Sensing and GIS CE833OE: Entrepreneurship and Small Business

		Enterprises
6	Computer Science and Engg. / Information Technology	CS831OE: Linux Programming CS832OE: R Programming CS833OE: PHP Programming
7	Electronics and Communication Engg. / Electronics and Telematics Engg.	EC831OE: Electronic Measuring Instruments
8	Electronics and Computer Engg.	EM831OE: Data Analytics
9	Electrical and Electronics Engg.	EE831OE: Entrepreneur Resource Planning EE832OE: Management Information Systems EE833OE: Organizational Behaviour
10	Electronics and Instrumentation Engg.	EI831OE: Sensors and Transducers, EI832OE: PC Based Instrumentation
11	Mechanical Engg.	ME831OE: Total Quality Management ME832OE: Industrial Safety, Health, and Environmental Engineering ME833OE: Basics of Thermodynamics ME834OE: Reliability Engineering
12	Mechanical Engg. (Material Science and Nanotechnology)	NT831OE: Concepts of Nano Science And Technology NT832OE: Synthesis of Nanomaterials NT833OE: Characterization of Nanomaterials
13	Mechanical Engg. (mechatronics)	MT831OE: Renewable Energy Sources MT832OE: Production Planning and Control CE833OE: Entrepreneurship and Small Business Enterprises
14	Metallurgical and Materials Engg.	MM831OE: Design and Selection of Engineering Materials
15	Mining Engg.	MN831OE: Solid Fuel Technology MN832OE: Health & Safety in Mines
16	Petroleum Engg.	PE831OE: Disaster Management PE832OE: Fundamentals of Liquefied Natural Gas PE833OE: Health, Safety and Environment in Petroleum Industry

***Open Elective** – Students should take Open Electives from List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.





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The meeting ended with chairman thanking members for their lively and useful interaction to evolve a best possible course structure and syllabus for the B. Tech CSE programme.

HOD (CSE)

Head of the Department
Department of Computer Science and Engineering
St. Martin's Engineering College
Dhulapally, Secunderabad, Telangana.

Copy to:

1. Principal
2. IQAC