



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
- SIRO Recognition by MST, Govt. of India

DEPARTMENT OF INFORMATION TECHNOLOGY MINUTES OF MEETING -BOARD OF STUDIES (BOS)

The BOS meeting is held at IQAC, MG Block on 08th Feb 2020 at 11 AM.

The Agenda of the meeting is as under.

- Curriculum and Syllabus framing

The following members attended.

S. No.	Name of the Faculty	Designation	Signature
1	Dr. R. Nagaraju, Assoc. Professor & HOD	Chairman	
2	Dr. M. 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. Professor & HOD, Dept of CSE, MRIT, Hyd.	Educationist	
5	Mrs. Lalitha Kumari Guntupalli, Director-Project Management, Netcracker Technologies Pvt Ltd. Hyd.	Industrialist	
6	Dr. S. V. Achuta Rao, Professor	Faculty Member	
7	Mrs. E. Soumya, Assistant Professor	Faculty Member	
8	Mr. M. Ashok, Assistant Professor	Faculty Member	
9	Mr. J. Lakshmi Narayana, Assistant Professor	Faculty Member	
10	Ms. B.H Deepthi Sree Tata Consultancy Services, Hyd.	Alumni Member	



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The following points were discussed

I. The proposed subjects for First Year and Second Year were discussed and approved.

S. No.	Theory	Laboratory
I Year II Semester		
1.	1. Programming for Problem Solving	1. Programming for Problem Solving
II Year I Semester		
2	1. Computer Oriented Statistical Methods 2. Analog & Digital Electronics 3. Python Programming 4. Data Structures Using C 5. Business Economics and Financial Analysis	1. Python Programming Lab 2. Data Structures Using C Lab 3. IT Workshop Lab 4. Analog & Digital Electronics Lab 5. Gender Sensitization Lab
II Year II Semester		
3	1. Java Programming 2. Data Base Management Systems 3. Operating Systems 4. Computer Organization and Architecture 5. Discrete Mathematics	1. Java Programming Lab 2. Operating Systems Lab 3. Database Management Systems Lab 4. Mini Project

II. Presentation of the course structure and detailed syllabi for I & II B.Tech IT, has been presented, discussed and approved.

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 IT programme.


HOD, IT

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1. Principal
2. IQAC

Head of the Department
Department of Information Technology
St. Martin's Engineering College

The following points were discussed

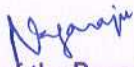
- I. The following course structure for all four Years of B.Tech, IT Program is presented and discussed.

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



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II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	IT301PC	Python Programming	3	0	0	3
2	MA302BS	Computer Oriented Statistical Methods	3	0	0	3
3	SM303MS	Business Economics and Financial Analysis	3	0	0	3
4	CS304PC	Data Structures using C	3	0	0	3
5	EC305ES	Analog and Digital Electronics	3	0	0	3
6	IT306PC	Python Programming lab	0	0	3	1.5
7	CS307PC	Data Structure 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
10	GS310MC	Gender Sensitization Lab	0	0	2	0
Total Credits			15	2	14	21

II YEAR II SEMESTER

S.No	Course Code	Course Title	L	T	P	Credits
1	CS401PC	Operating Systems	3	0	0	3
2	IT402PC	Database Management Systems	3	0	0	3
3	CS403PC	Java Programming	3	0	0	3
4	IT404PC	Computer Organization and Microprocessor	3	0	0	3
5	CS405PC	Discrete Mathematics	3	0	0	3
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	IT407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	3	1.5
9	IT409PC	Mini Project	0	0	3	1.5
Total Credits			15	1	12	21



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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	IT503PC	Data Communication & Computer Networks	3	0	0	3
4	IT504PC	Web Programming	2	0	0	2
5		Professional Elective - I	3	0	0	3
6		Professional Elective - II	3	0	3	3
7	CS505PC	Software Engineering Lab	0	0	3	1.5
8	IT506PC	Computer Networks & Web Programming Lab	0	0	3	1.5
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	MC510	Intellectual Property Rights				
Total Credits						21

III YEAR II SEMESTER

S.No	Course Code	Course Title	L	T	P	Credits
1	IT601PC	Introduction to Embedded Systems	3	0	0	3
2	IT602PC	Principles of Compiler Construction	3	0	0	3
3	IT603PC	Algorithm Design and Analysis	3	0	0	3
4	IT604PC	Internet of Things	3	0	0	3
5		Professional Elective –III	3	0	0	3
6		Open Elective-I	3	0	0	3
7	IT605PC	Embedded Systems & Internet of Things Lab	0	0	3	1.5
8	IT606PC	Compiler Construction Lab	0	0	3	1.5
9	MC609	Environmental Science	3	0	0	0
Total Credits						21


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Professional Elective – I

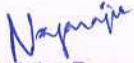
IT511PE	Biometrics
CS512PE	Advanced Computer Architecture
CS513PE	Data Analytics
CS514PE	Image Processing
CS515PE	Principles of Programming Languages

Professional Elective – II

IT521PE	Database Security
CS522PE	Advanced Operating Systems
IT523PE	Machine Learning
IT524PE	Pattern Recognition
CS521PE	Computer Graphics
IT522PE	Block Chain Technology

Professional Elective – III

IT611PE	Ethical Hacking
CS612PE	Network Programming
CS613PE	Scripting Languages
CS614PE	Mobile Application Development
CS615PE	Software Testing Methodologies

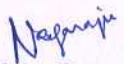

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IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS701PC	Data Mining	3	0	0	3
2	IT702PC	Android Application Development	3	0	0	3
3		Professional Elective – IV	3	0	0	3
5	IT703PC	Android Application Development Lab	0	0	3	2
6		PE-IV Lab #	0	0	3	1.5
	CS751PC	Wireless Sensor Networks Lab				
	CS753PC	Web Scripting Languages Lab				
	IT752PC	Linux Programming Lab				
	CS754PC	Artificial Intelligence using Python Lab				
7	IT705PC	Industry Oriented Mini Project	0	0	3	1.5
8		Project Phase-1	0	0	6	6
9	IT706PC	Seminar	0	0	2	1
Total Credits						21

IV YEAR II SEMESTER

S.No	Course Code	Course Title	L	T	P	Credits
1		Open Elective – II	3	0	0	3
2		Professional Elective – V	3	0	0	3
3		Professional Elective – VI	3	0	0	3
4	IT801PC	Project Phase-2	0	0	6	6
Total Credits						15


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Professional Elective – IV


CS743PE	Wireless Sensor Networks Lab
CS742PE	Web Scripting Languages
CS744PE	Artificial Intelligence using Python
IT741PE	Linux Programming

Professional Elective – V

IT851PE	Steganography and Watermarking
CS852PE	Real-Time Systems
CS853PE	Big Data Analytics
CS854PE	Modern Software Engineering

Professional Elective – VI

IT861PE	Intrusion Detection System
IT862PE	ADHOC and Sensor Networks
CS864PE	Neural Networks and Deep Learning
IT863PE	Human Computer Interaction
IT864PE	Computer Vision and Image Processing


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**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.

II. The detailed syllabi for the following subjects of Ist & IInd year B.Tech IT, have been 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. Analog & Digital Electronics 2. Python Programming 3. Data Structures Using C	1. Analog & Digital Electronics Lab 2. Python Programming Lab 3. Data Structures Using C Lab 4. IT Workshop Lab
II Year II Semester		
3	1. Java Programming 2. Data Base Management Systems 3. Operating Systems 4. Computer Organization and Microprocessor 5. Discrete Mathematics	1. Java Programming Lab 2. Data Base Management Systems Lab 3. Operating Systems Lab 4. Mini Project

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 IT programme.

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Nayanaji
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