METHODIST
COLLEGE OF ENGINEERING AND TECHNOLOGY
Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad
Abids, Hyderabad, Telangana, 500001
Estd : 2008

DEPARTMENT OF CIVIL ENGINEERING

NON-CBCS CURRICULUM REGULATIONS (WEF 2014-15)

I Year
English
Mathematics I
Mathematics II
Engineering Physics
Engineering Chemistry
Programming in C and C++
Engineering Mechanics
Engineering Graphics
Physics Lab
Chemistry Lab
Workshop Pratice
Programming Lab
English Language Lab

II Year I SEM	**II Year II SEM**
Mathematics - II	Strength of Materials-II
Building Planning and Drawing	Surveying-II
Engineering Materials & Construction	Fluid Mechanics-I
Engineering Geology	Environmental Studies
Strength of Materials-I	Electrical and Mechanical Technology
Surveying -I	Strength of Materials-Lab.
Engineering Geology Laboratory	Surveying -II Laboratory
Surveying -I Laboratory	Fluid Mechanics-Lab
	Surveying Camp

III Year I Sem	**III Year II Sem**
Reinforced Cement Concrete	Soil Mechanics
Fluid Mechanics - II	Steel Structures
Theory of Structures - I	Theory of Structures - II
Building Technology and Service	Structural Engineering Design & Detailing - I (RCC)
Transportation Engineering	Water Resources Engineering and Management- II
Managerial Economics and Accountancy	Water and Waste water Engineering

Hydraulics and Hydraulic Machinery Lab	Soil Mechanics Lab.
Transportation Engineering Lab	Environmental Engineering Lab.
Surveying Camp	Industrial Visit/Study
IVyear I sem	**IVyear II sem**
Structural Engineering Design &Detailing –II(Steel)	Construction Management And Administration
Estimating and Specifications	Disaster Mitigation And Management
Foundation Engineering	**Elective - II**
Water Resources Engineering– II	Health Monitoring &Retrofitting of Structures
Concrete Technology	Ground Improvement Techniques
Elective-I	Advanced Environmental Engg.
Elements Of Earthquake Engineering	Advanced Reinforced Concrete Design
Surface &Ground water Management	Advanced Transportation Engg.
Pre-Stressed Concrete	**Elective - III**
Geographical Information Systems	Ground Water Hydrology
Operation Research In Civil Engineering	Finite Element Method
Entrepreneurship	Infrastructure Engineering
Concrete Laboratory	Information Security
Computer Applications Laboratory	Intellectual Property Rights
Project Seminar	Seminar
	Project

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DEPARTMENT OF CIVIL ENGINEERING

CBCS CURRICULUM REGULATIONS (WEF 2016-17)

I SEM	II SEM
Engineering Mathematics I	Engineering Mathematics II
Engineering physics I	Engineering Physics II
Engineering Chemistry I	Engineering Chemistry II
Engineering Mechanics I	Business Communication and Presentation Skills
Solving	Engineering Mechanics II
Engineering English	Engineering Physics Lab II
Engineering Physics Lab I	Engineering chemistry Lab II
Engineering chemistry Lab I	Computer Skills Lab
Engineering Graphics I	Communication Skills Lab
Computer Programming Lab	Engineering Graphics II
Engineering Workshop I	Building Drawing
Engineering English Lab	
III SEM	**IV SEM**
Engineering Mathematics- III	Numerical Methods
Electrical and Mechanical Technology	Strength of Materials-II
Engineering Geology	Fluid Mechanics-II
Strength of Materials-I	Surveying -II
Fluid Mechanics-I	Hydrology and water Management
Building Materials and Constructuion	Environmental Sciences
Surveying -I	Managerial Economics and Accountancy
Engineering Geology Lab	Material Testing Lab
Surveying -I Lab	Fluid Mechanics-I Lab
	Surveying -II Lab
V SEM	**VI SEM**
Reinforced Cement Concrete	Earthquake Resistant Design of Buildings
Theory of Structures – I	Structural Engineering Design & Detailing – I (Concrete)

Concrete Technology	Theory of Structures – II
Hydraulic Machines	Water Resource Engineering II
Transportation Engg. – I	Soil Mechanics
Environmental Engineering	Transportation Engineering – II
Water Resource Engg. – I	**Professional Elective – II**
Professional Elective – I	Earthquake Resistant Design of Buildings
Advanced Concrete Technology	Wastewater Treatment
Hydropower Engineering	Ground Improvement Techniques
Infrastructure Engineering	Watershed Management
Soft Computing Skills in CE	**Open Elective – I**
Fluid Mechanics Lab-II	Disaster Management
Transportation Engineering Lab	Geo Spatial Techniques
Environmental Engineering Lab	Operating Systems
	OOP using Java
	Database Systems
	Principles of Embedded Systems
	Digital System Design using HDL Verilog
	Reliability Engineering
	Basics of Power Electronics
	Industrial Robotics
	Material Handling
	Automotive Safety & Ergonomics
	Soil Mechanics Lab
	Concrete Technology Lab
	Survey Camp

VII SEM	VIII SEM
Str. Engg. Design and Drawing – II (Steel)	Construction Management & Technology
Estimation Costing & Specifications	**Professional Elective – III**
Finite Element Techniques	Retrofitting and Rehabilation of structures
Prestressed Concrete	Computer Aided Analysis and Design
Foundation Engineering	Applied Hydrology
Open Elective – II	Introducation to climate Change
Green Building technologies	**Professional Elective – IV**
Data Science	Structural Dynamics
Fundamentals to IoT	Design with Geosynthetics
Non Conventional Energy sources	Ground water Management
Enterprenuership	Intelligent Transportation systems
Open Elective – III	**Professional Elective – V**
Road safety engineering	Prefabrication Engineering
Software engineering	Principles of Green building practices
Principles of electronic communication	Advanced Reinforced Concrete Design
Illumination and electric traction system	Traffic Engineering & Infrastructure design

Mechatronics	Gender Sensitization
Computer Application Lab	**Project Work – II**
Project Work – I	Mandatory Course
Summer Internship	Yoga Practice
	NSS
	Sports

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DEPARTMENT OF CIVIL ENGINEERING

AICTE MODEL CURRICULUM REGULATIONS (WEF 2018-19)

I SEM	II SEM
Chemistry	Physics-I(Mechanics for CE)
Mathematics-I	Mathematics-II
Programming For Problem Solving	Basic Electrical Engineering
Chemistry lab	English
Programming For Problem Solving Lab	Physics Lab
Workshop/Manufacturing process	Basic Electrical Engineering Lab
	Engineering Graphics & Design for CE
	English Lab
III SEM	**IV SEM**
Engineering Mathematics- III	Numerical Methods
Electrical and Mechanical Technology	Strength of Materials-II
Engineering Geology	Fluid Mechanics-II
Strength of Materials-I	Surveying -II
Fluid Mechanics-I	Hydrology and water Management
Building Materials and Constructuion	Environmental Sciences
Surveying -I	Managerial Economics and Accountancy
Engineering Geology Lab	Material Testing Lab
Surveying -I Lab	Fluid Mechanics-I Lab
	Surveying -II Lab

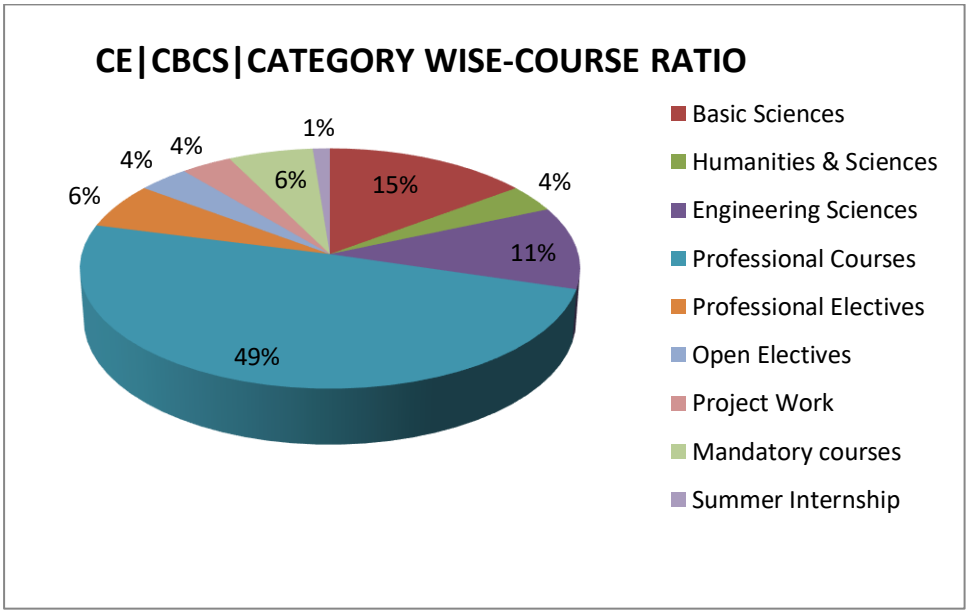
METHODIST COLLGE OF ENGG & TECHNOLOGY

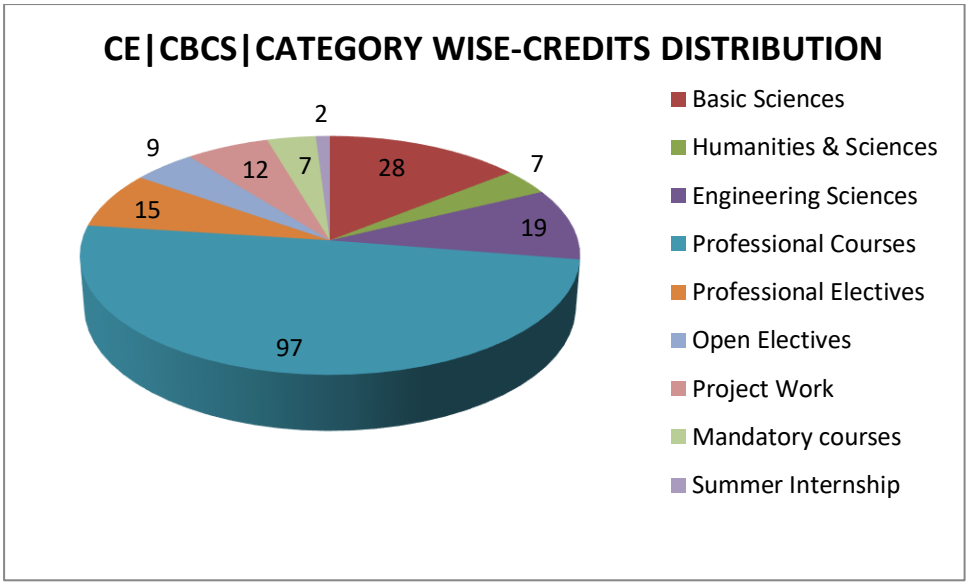
Abids, Hyderabad

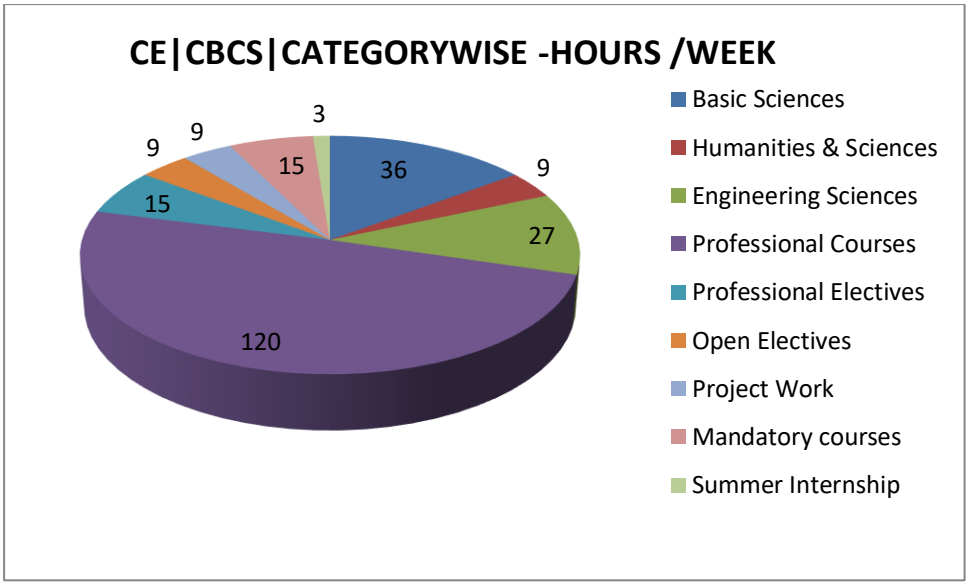
Department of Civil Engineering

Time line: 2016-17 TO 2019-20

DEPT OF CIVIL ENGG - CBCS CURRICULUM ANALYSIS CHART					
Sl. No	COURSE CATEGORY	COURSE RATIO		CREDITS DISTRIBUTION	HRS/WEEK
		Number	Percentage		
1	BS-Basic sciences	12	15%	28	36
2	H&SS-Humanities & Soc sciences	3	4%	7	9
3	ES-Engg Science	9	11%	19	27
4	PC-Prof. Course	40	49%	97	120
5	PE-Prof. Elective	5	6%	15	15
6	OE-Open Elective	3	4%	9	9
7	PW-Project Work	3	4%	12	9
8	MC-mandatory Course	5	6%	7	15
9	SI-Summer Internship	1	1%	2	3







-HOD, CIVIL ENGG.

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Estd : 2008

Department of Computer science & Engg.

NON- CBCS Curriculum Regulations (WEF 2014 - 15)

CSE 1ST Year (2014 – 2015)
English
Mathematics – I
Mathematics – II
Engineering Physics
Engineering Chemistry
Programming in C & C++
Engineering Mechanics
Engineering Graphics
Physics Lab
Chemistry Lab
Workshop Lab
Programming Lab
English Language Lab

CSE 2nd Year (I – Semester) (2015 – 2016)	CSE 2nd Year (II – Semester) (2015 – 2016)
Mathematic - III	Mathematics-IV
Data Structure using C++	Object Oriented Programming Using Java
Discrete Structures	Microprocessors & Interfacing
Logic and Switching Theory	Principles of Programming Languages
Computer Architecture	Electrical Circuits and Machines
Basic Electronics	Environmental Studies
Data Structures Lab using C++	JAVA Lab
Basic Electronics Lab	Microprocessors Lab

CSE 3rd Year (I – Semester) (2016 – 2017)	CSE 3rd Year (II – Semester) (2016 – 2017)
Database Management Systems	Web Programming & Services
Operating Systems	Compiler Construction
Automata, Languages and Computation	Design & Analysis of Algorithms
Software Engineering	Object Oriented System Development
Managerial Economics and Accountancy	Computer Networks
Data Communications	Web Programming & Networking Lab
Database Lab	Object Oriented System Development Lab
OS Lab	Compiler Construction Lab

Mini Project	Mini Project

CSE 4th Year (I – Semester) (2017 – 2018)	**CSE 4th Year (II – Semester) (2017 – 2018)**
Distributed System	Data Mining
Artificial Intelligence	**Elective – II**
Information Security	• Simulation & Modelling
Principles & Applications of Embedded System	• Operation Research
Elective – I	• Software Quality and Testing
• Software Project Management	• Information Storage and Management
• Computer Graphics	• Human Computer Interaction
• Image Processing	• Software Reuse Techniques
• Adhoc and Sensor Networks	• Entrepreneurship
• Soft Computing	**Elective – III**
• Mobile Computing	• Information retrieval System
• Real Time Systems	• Semantic Web
Distributed System Lab	• Intellectual Property Rights
Embedded System Lab	• Advanced Data Bases
Project Seminar	• Multimedia Systems
	• Cloud Computing
	• Disaster Mitigation and Management
	Data Mining Lab
	Seminars
	Project

CBCS Curriculum Regulations (WEF 2016-17)

CSE I – Semester (2016 – 2017)	CSE II – Semester (2016 – 2017)
Engineering Mathematics I	Engineering Mathematics II
Engineering Physics I	Engineering Physics II
Engineering Chemistry I	Engineering Chemistry II
Engineering Mechanics I	Business Communication and Presentation Skills
Computer Programming and problem solving	Object Oriented Programming using C++
Engineering English I	Basic Electrical Engineering
Engineering Physics Lab I	Engineering Physics Lab II
Engineering Chemistry Lab I	Engineering Chemistry Lab II
Engineering Graphics I	Computer Skills Lab
Computer Programming Lab	Communication Skills Lab
Engineering workshop I	C++Programming Lab
Engineering English Lab	

CSE III – Semester (2017 – 2018)	CSE IV – Semester (2017 – 2018)
Engineering Mathematics – III	Mathematics And Statistics
Basic Electronics	Signals And System Analysis
Data Structures	Computer Organization
Discrete Mathematics	Object Oriented Programming Using Java
Logic and Switching Theory Switching Theory	Programming Languages
Environmental Sciences	Microprocessors And Interfacing
Electrical Engineering Lab	Java Programming Lab
Basic Electronics Lab	Microprocessors Lab
Data Structures Lab	Mini Project
	Society Outreach Program

CSE V – Semester (2018 – 2019)	CSE VI – Semester (2018 – 2019)
Database Management Systems	Design and Analysis of Algorithms
Data Communications	Software Engineering
Automata, Languages & Computation	Web Programming
Operating Systems	Computer Networks & Programming
Computer Graphics	**Professional Elective – II**
Managerial Economics and Accountancy	• Graph Theory and Its Applications
Professional Elective – I	• Advanced Computer Graphics
• Advanced Computer Architecture	• Advanced Databases
• Artificial Intelligence	**Open Elective – I**
• Simulation and Modeling	• Disaster Management

Gender Sensitization	• Geo Spatial Techniques
Database Management Systems Lab	• Principles of Embedded Systems
Operating Systems Lab	• Digital System Design using HDL Verilog
Computer Graphics Lab	• Reliability Engineering
	• Basics of Power Electronics
	• Industrial Robotics
	• Material Handling
	• Automotive Safety & Ergonomics
	Software Engineering Lab
	Web Programming Lab
	Computer Networks &Programming Lab
	Mandatory Course
	• Yoga Practice
	• National Service Scheme
	• Sports
	Summer Internship*

CSE VII – Semester (2019 – 2020)	**CSE VIII – Semester (2019 – 2020)**
Compiler Construction	**Professional Elective – III**
Distributed Systems	• Mobile Computing
Information Security	• Image Processing
Data Mining	• Software Quality and Testing
Open Elective – II	• Web Services and Architecture
• Green Building Technologies	• Computational Intelligence
• Data Science Using R Programming	**Professional Elective – IV**
• Fundamentals of IoT	• Embedded Systems
• Non – Conventional Energy Sources	• Information Retrieval Systems
• Entrepreneurship	• Machine Learning
Open Elective – III	• Natural Language Processing
Road Safety Engineering	• Data Science using R Programming
Software Engineering	**Professional Elective – V**
Principles of Electronic Communications	• Multicore and GPU Programming
Illumination and Electric Traction systems	• Cloud Computing
Mechatronics	• Human Computer Interaction
	Project Work – II

AICTE MODEL Curriculum Regulations (WEF 2018-19)

CSE I – Semester (2018 – 2019)	CSE II – Semester (2018 – 2019)
Mathematics – I	English
Physics	Mathematics – II
Basic Electrical Engineering	Chemistry
Physics Lab	Programming for Problem Solving
Basic Electrical Engineering Lab	English Lab
Engineering Graphics & Design	Chemistry Lab
	Programming for Problem Solving Lab
	Workshop / Manufacturing Process

CSE III – Semester (2019 – 2020)	CSE IV – Semester (2019 – 2020)
Environmental Science	Indian Constitution
Essence of Indian Traditional Knowledge	Effective Technical Communication in English
Operations Research	Finance and Accounting
Biology for Engineers	Mathematics – III
Basic Electronics	Signals and Systems
Digital Electronics	OOP using JAVA
Data Structures and Algorithms	Computer Organization
Discrete Mathematics	Database Management Systems
Programming Languages	Computer Organization Lab
Basic Electronics Lab	OOP using JAVA Lab
Data Structures and Algorithms Lab	Database Management Systems Lab
Advanced Computer Skills Lab	

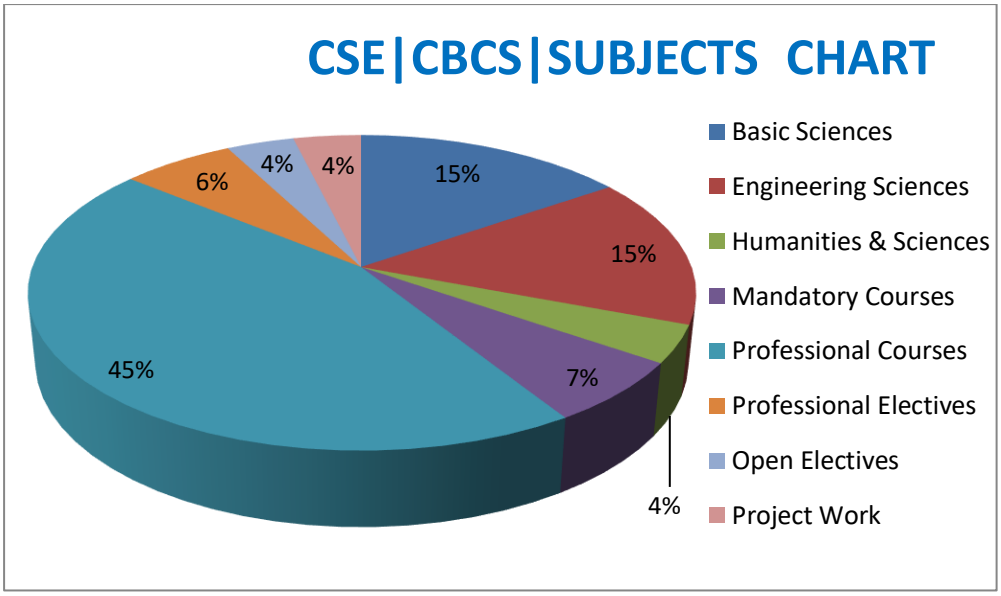
METHODIST COLLGE OF ENGG & TECHNOLOGY, HYD
DEPT OF CSE
CBCS CURRICULUM – ANALYSIS
TIMELINE:2016-17 TO 2019-20

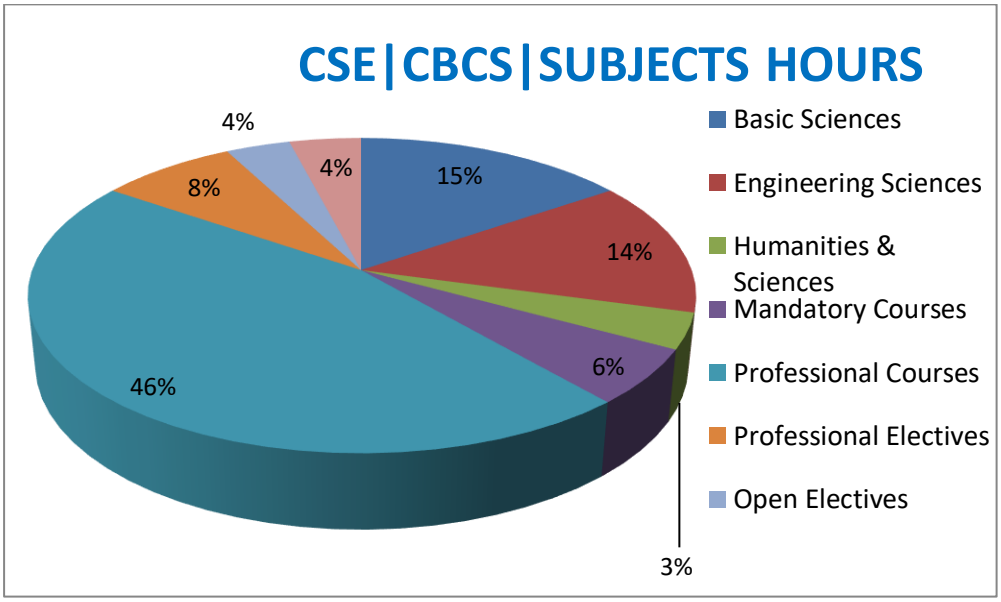
DEPT . OF Computer Science Engineering CBCS CURRICULUM ANALYSIS CHART					
Sl. No	COURSE CATEGORY	RATIO		CREDITS	HRS/WEEK
		Number	Percentage		
1	BS-Basic sciences	12	15	28	38
2	H&SS-Humanities & Soc sciences*	3	4	7	9
3	ES-Engg Science	12	15	22	34
4	PC-Prof. Course	35	45	79	113
5	PE-Prof. Elective	5	6	15	19
6	OE-Open Elective	3	4	9	9
7	PW-Project Work	3	4	12	10
8	MC-mandatory Course*	5	7	7	14
9	SI-Summer Internship	--	--	--	--

* Courses addressing cross cutting issues :

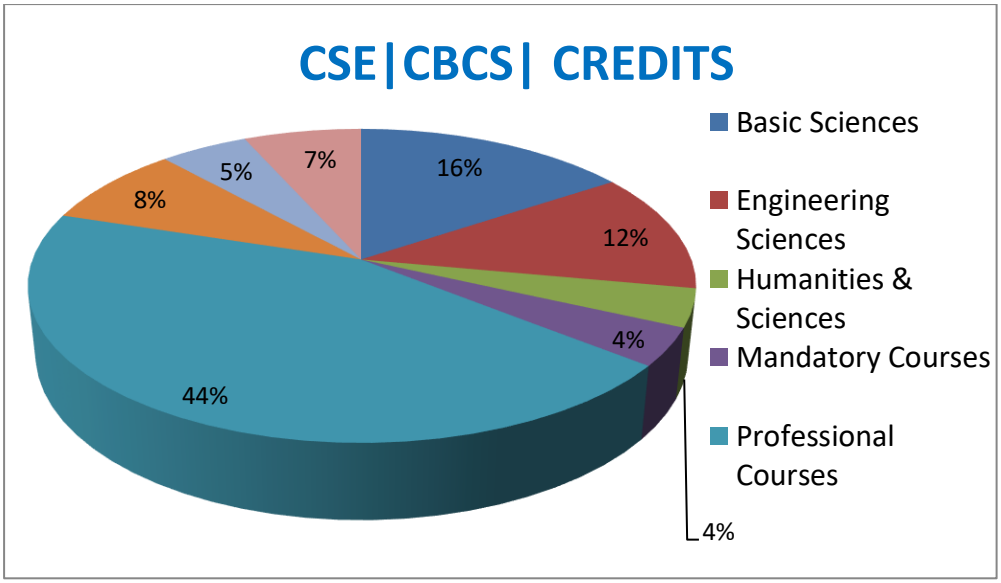
Environmental sciences, Gender sensitisation , Yoga, Managerial Economics & accountancy, Disaster management & Mitigation

METHODIST COLLGE OF ENGG & TECHNOLOGY, HYD
DEPT OF CSE
CBCS CURRICULUM – ANALYSIS
TIMELINE:2016-17 TO 2019-20





METHODIST COLLGE OF ENGG & TECHNOLOGY, HYD
DEPT OF CSE
CBCS CURRICULUM – ANALYSIS
TIMELINE:2016-17 TO 2019-20



- HOD-CSE

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DEPARTMENT OF Electrical & Electronics ENGINEERING
NON- CBCS CURRICULUM REGULATIONS (WEF 2014-15)

EEED I YEAR	
English	Engineering Graphics
Mathematics I	Physics Lab
Mathematics II	Chemistry Lab
Engineering Physics	Workshop Pratice
Engineering Chemistry	Programming Lab
Programming in C and C++	English Language Lab
Engineering Mechanics	
II-I SEM	**II-II SEM**
Mathematics-III	ELECTRICAL CIRCUITS-II
Electrical ciruits-I	SOLID MECHANICS
ENVIRONMENTAL STUDIES	POWER SYSTEMS-I
ELECTRICAL MEASUREMENTS AND INSTRUMENTATION	ELECTRONIC ENGG-II
ELECTRONIC ENGG-I	ELECTROMAGNETIS FIELDS
PRINCIPLES OF MECHANICAL ENGINEERING	ELECTRICAL MACHINES-I
Electronics Devices-Lab-I	ELECTRONIC ENGG LAB-II
CIRCUITS AND MEASUREMENTS LAB	MECHANICAL TECHNOLOGY LAB
III-I SEM	**III-II SEM**
POWER SYSTEMS-II	DIGITAL SIGNAL PROCESSING LAB
ELECTRICAL MACHINERY-II	ELECTRICAL MACHINERY-III
POWER ELECTRONICS	SWITCH GEAR AND PROTECTION
DIGITAL ELECTRONICS & LOGIC DESIGN	MICROPROCESSORS AND PICRO CONTROLLERS
LINEAR INTEGRATED CIRCUITS	MANAGERIAL ECONOMICS AND ACCOUNTANCY
LINEAR CONTROL SYSTEMS	ELECTRICAL MACHINS LAB-II
ELECTRICAL MACHINESLAB-I	POWER ELECTRONICS LAB
CONTROL SYSTEMSLAB	INTEGRATED CIRCUITS LAB
	INDUSTRIAL VISIT
IV -I SEM	**IV-II SEM**
POWER SYSTEM OPERATION & CONTROL	UTILIZATION
ELECTRIC DRIVES AND STATIC CONTROL	DIGITAL SIGNAL PROCESSING LAB

ELECTRICAL MACHINE DESIGN	Project
ELECTRICAL SIMULATION LAB	SEMINAR
MICROPROCESSORS AND PICRO CONTROLLERS LAB	**Elective – II**
POWER SYSTEMS LAB	ELECTRICAL POWER DISTRIBUTION ENGG
PROJECT SEMINAR	OPTIMIZATION METHODS
Elective-I	VLSI DESIGN
HIGH VOLTAGE DC TRANSMISSION	Disaster management
POWER QUALITY	ADVANCED CONTROL SYSTEMS
ENTREPRENEURSHIP	RENEWABLE ENERGY SOURCES
CYBER SECURITY/INFORMATION SECURITY	Intellectual Property Rights
HIGH VOLTAGE ENGG	**Elective – III**
NUCLEAR ENERGY	TRANSDUCERS
EMBEDDED SYSTEMS	ELECTRONIC INSTRUMENTATION SYSTEMS
	INTERNET PROGRAMMING
	TECHNICAL WRITING & PRESENTATION SKILLS
	POWER SYSTEM RELIABILITY
	IMAGE PROCESSING
	SOFT COMPUTING

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DEPARTMENT OF Electrical & Electronics ENGINEERING
CBCS CURRICULUM REGULATIONS (WEF 2016-17)

I SEM	II SEM
Engineering Mathematics I	Engineering Mathematics II
Engineering phisics I	Engineering phisics II
Engineering Chemistry I	Engineering Chemistry II
Engineering Mechanics I	Business Communication and Presentation Skills
Computer Programming and Problem Solving	ELEMENTS OF MECHANICAL ENGINEERING
Engineering English	Electrical Technology
Engineering Phisics Lab I	ELECTRONIC ENGINEERING-I
Engineering chemistry Lab I	ENGINEERING PHYSICS LAB-II
Engineering Graphics I	ENGINEERING CHEMISTRY LAB II
Computer Programming Lab	Communication Skills Lab
Engineering Workshop I	ENGINEERING WORKSHOP -II
Engineering English Lab	

III SEM	IV SEM
Engineering Mathematics-III	ENGINEERING MATHEMATICS -IV
ELECTRONIC ENGINEERING-II	ELECTRICAL CIRCUITS-II
PRIME MOVERS AND PUMPS	ELECTRICAL MACHINES -I
ELECTRICAL CIRCUITS-I	POWER SYSTEMS-I
ELECTROMAGNETIC FIELDS	POWER ELECTRONICS
DIGITAL ELECTRONICS & LOGIC DESIGN	LINEAR INTEGRATED CIRCUITS
MECHANICAL ENGINEERING LAB	Managerial Economics and Accountancy
ELECTRONIC L ENGINEERING LAB	DIGITAL ELECTRONICS & INTEGRATED CIRCUITS LAB
	COMPUTER AIDED ELECTRICAL DRAWING LAB
V SEM	**VI SEM**
POWER SYSTEMS-II	ELECTRICAL MACHINES-II
ELECTRICAL MACHINES-II	MICROPROCESSORS AND MICROCONTRILLERS
ELECTRICAL MEASUREMENTS AND INSTRUMENTATION	SWITCH GEAR AND PROTECTION
LINEAR CONTROL SYSTEMS	RENEWABLE ENERGY TECHNOLOGIES
Digital Signal Processor and APPLICATIONS	ELECTRICAL MACHINES LAB-II
Gender Sensitization	DIGITAL SIGNAL PROCESSING LAB
ELECTRICAL MACHINES LAB-I	CONTROL SYSTEMS LAB
POWER ELECTRONICS LAB	SUMMER INTERNSHIP

CIRCUITS & MEASUREMENTS LAB	**Professional Elective-II**
Professional Elective-I	AI TECHNIQUES
PROGRAMMABLE LOGIC CONTROLLERS	ELECTRIC DISTRIBUTION SYSTEMS
ELECTRONIC INSTRUMENTATION	DIGITAL CONTROL SYSTEMS
FACTS DEVICES	**Open Elective-I**
	Disaster Mitigation and Management
	GEOSPATIAL TECHNIQUES
	OPERATING SYSTEMS
	OOPS THROUGH JAVA
	EMBEDDED SYSTEMS
	DIGITAL SYSTEM DESIGN USING VERILOG HDL
	RELIABILITY ENGINEERING
	BASICS OF POWER ELECTRONICS
	INDUSTRIAL ROBOTICS
	MATERIAL HANDLING
	Intellectual Property Rights
	Mandatory Course
	Yoga Practice
	National Service Scheme
	SPORTS

VII SEM	VIII SEM
Power System Operation and Control	Utilization of Electrical Energy
Electric Drives and Static Control	**Professional Elective- III**
Electrical Machine Design	Power System Reliability
Open Elective - II	Electric Vehicle and Hybrid Electric Vehicle
Green Building Technologies Database Management Systems Fundamentals of IoT Non-Conventional Energy Sources Entrepreneurship	Machine Modeling Analysis
Open Elective - III	High Voltage DC Transmission
Road Safety Engineering	**Professional Elective- IV**
Data Science Using R Programming	Advanced Control Systems
Global and Regional Satellite Navigation Systems	Electrical Estimation Costing & Safety
Illumination and Electric Traction systems**	Advanced Power Electronics
Mechatronics	Power Quality
Electrical Simulation Lab	Power Systems Lab
Microprocessor and Microcontrollers Lab	Project Work- II
Project Work -I	
Summer Internship(Evaluation)	

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DEPARTMENT OF Electrical & Electronics ENGINEERING
AICTE MODEL CURRICULUM REGULATIONS (WEF 2018-19)

I SEM	II SEM
Mathematics I	English
Chemistry	Mathematics II
programming For Problem Solving	Physics
Chemistry lab	Basic Electrical Engineering
programming For Problem Solving	ENGLISH LAB
Workshop/Manufacturing process	PHYSICS LAB
	Basic Electrical Engineering LAB
	ENGINEERING GRAPHICS & DESIGN

III SEM	IV SEM
Industrial Psychology	Effective Technical
Biology for Engineers	Communication
Engineering Mechanics	Finance and Accounting
Energy Sciences and	Mathematics-III
Engineering	Mechanical Engineering
Environmental Science	Indian Constitution
Essence of Indian Traditional Knowledge	Electrical Machines -I
Electrical Circuit Analysis	Digital Electronics
Analog Electronics	Power Electronics
Electromagnetic Fields	Electrical Machines-I Laboratory
Analog Electronics Laboratory	Digital Electronics Laboratory
Computer Aided Electrical Drawing Laboratory	

METHODIST COLLGE OF ENGG & TECHNOLOGY

Abids, Hyderabad

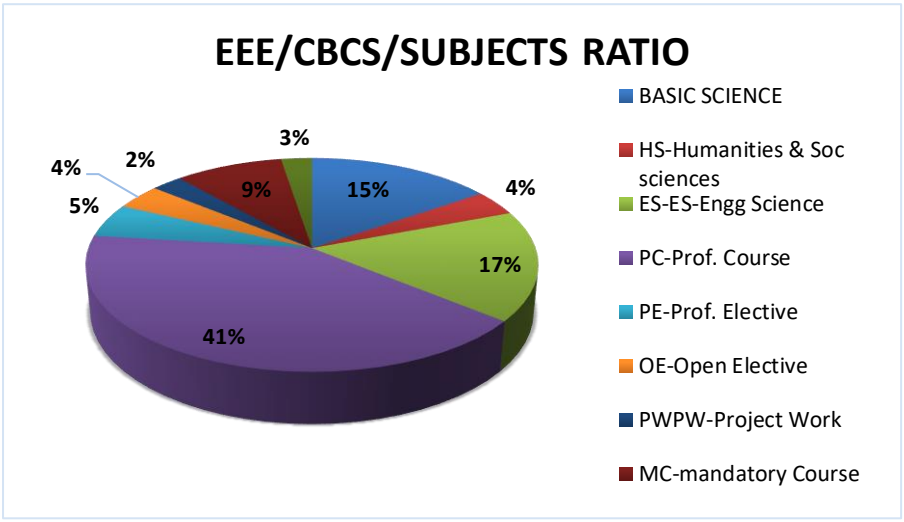
DEPT. OF ELECTRICAL AND ELECTRONICS ENGG.

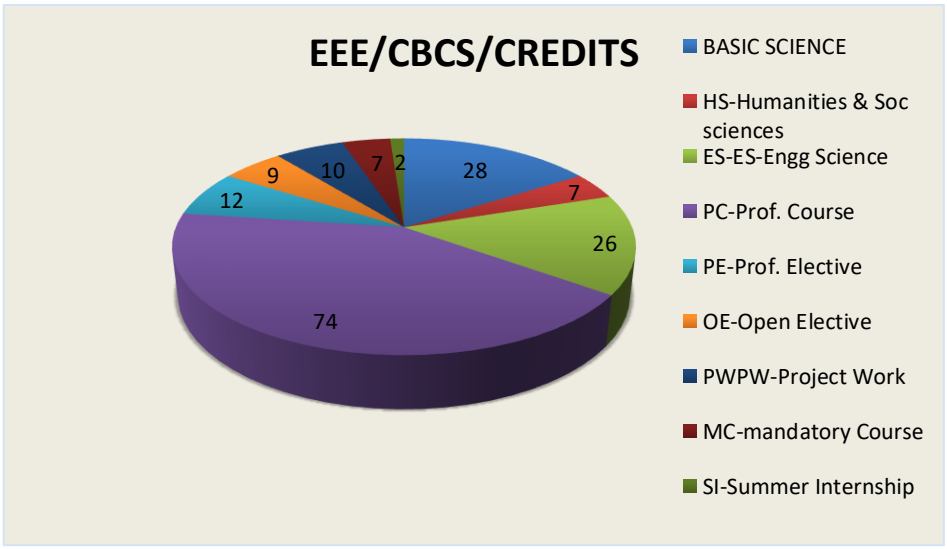
Timeline : 2016-17 TO 2019-20

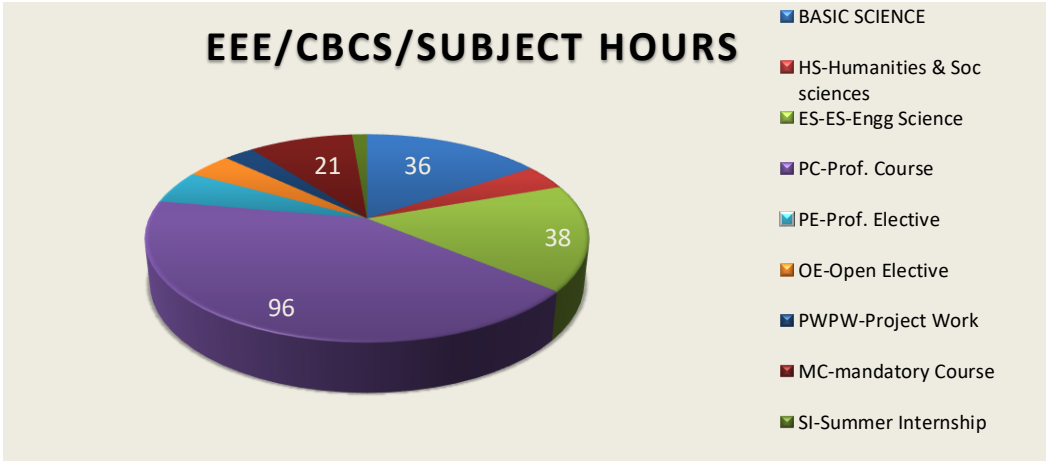
DEPT OF ELECTRICAL AND ELECTRONICS ENGG - CBCS CURRICULUM ANALYSIS CHART					
Sl. No	**COURSE CATEGORY**	**COURSE RATIO**		**CREDITS DISTRIBUTION**	**HRS/WEEK**
		Number	**Percentage**		
1	BS-Basic sciences	12	15%	28	36
2	H&SS-Humanities & Soc sciences	3	4%	7	9
3	ES-Engg. Science	13	17%	26	38
4	PC-Prof. Course	32	41%	74	96
5	PE-Prof. Elective	4	5%	12	12
6	OE-Open Elective	3	4%	9	9
7	PW-Project Work	2	2%	10	6
8	MC-mandatory Course	7	9%	7	21
9	SI-Summer Internship	2	3%	2	3

* Courses addressing cross cutting issues :

NSS, Environmental sciences, Gender sensitisation , Human values & Professional ethics , Yoga, Managerial Economics & accountancy, Disaster management & Mitigation ETC


EEE/CBCS/SUBJECTS RATIO
3%
4%
2%
9%
15%
4%
5%
17%
41%
BASIC SCIENCE
HS-Humanities & Soc sciences
ES-ES-Engg Science
PC-Prof. Course
PE-Prof. Elective
OE-Open Elective
PWPW-Project Work
MC-mandatory Course


EEE/CBCS/CREDITS
28
7
26
74
12
9
10
7
2
BASIC SCIENCE
HS-Humanities & Soc sciences
ES-ES-Engg Science
PC-Prof. Course
PE-Prof. Elective
OE-Open Elective
PWPW-Project Work
MC-mandatory Course
SI-Summer Internship


EEE/CBCS/SUBJECT HOURS
36
38
96
21
BASIC SCIENCE
HS-Humanities & Soc sciences
ES-ES-Engg Science
PC-Prof. Course
PE-Prof. Elective
OE-Open Elective
PWPW-Project Work
MC-mandatory Course
SI-Summer Internship

-HOD, EEE

METHODIST
COLLEGE OF ENGINEERING AND TECHNOLOGY
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Abids, Hyderabad, Telangana, 500001
Estd : 2008

Dept of Electronics & Communication Engineering

NON - CBCS CURRICULUM REGULATIONS(WEF 2014-15)

ECE 1ST Year (2014-2015)
English
Mathematics I
Mathematics II
Engineering Physics
Engineering Chemistry
Programming in C and C++
Engineering Mechanics
Engineering Graphics
Physics Lab
Chemistry Lab
Workshop Practice
Programming Lab
English Language Lab

ECE 2nd Year (I - Semester) (2015-2016)	**ECE 2nd Year (II - Semester) (2015-2016)**
Applied Mathematics	Analog Electronic Circuits
Basic Circuit Analysis	Networks and Transmission Lines
Electromagnetic Theory	Probability Theory and Stochastic Processes
Electronic Devices	Signal Analysis and Transform Techniques
Elements of Mechanical Engineering	Switching Theory and Logic Design
Electrical Technology	Environmental Studies
Electronic Devices Lab	Analog Electronic Circuits Lab
Electronic Workshop and Simulation Lab	Electrical Technology Lab

ECE 3rd Year (I - Semester) (2016-2017)	**ECE 3rd Year (II - Semester) (2016-2017)**
Linear ICs and Application	Digital Communication
Pulse and Digital Circuits	Digital Signal Processing
Analog Communication	Antenna and Wave Propagation
Automatic Control Systems	Microprocessor and Microcontroller

Computer Organization and Architecture	Managerial Economics and Accountancy
Digital System Design with VERILOG HDL	Communication Lab
Pulse, Digital and Integrated Circuits Lab	Systems and signal Processing Lab
VERILOG HDL Lab	MPMC Lab
Industrial Visit	Mini Project

ECE 4th Year (I - Semester) (2017-2018)	**ECE 4th Year (II - Semester) (2017-2018)**
Microwave Engineering	**Elective - III**
VLSI Design	Real Time Operating System
Electronic Instrumentation	Coding Theory and Techniques
Microwave Lab	Design of Fault Tolerant Systems
Embedded C and VLSI design Lab	Radar Systems
Project Seminar	Mobile and Cellular Communication
Elective-I	System Verilog
• Optical Communication	Analog VLSI Design
• Digital Image Processing	Intellectual Property Rights
• Multi Rate Signal Processing	**Elective – IV**
• FPGA	• Nano Electronics
• Artificial Neural Networks	• Global navigational satellite Systems
• Information Security	• Fuzzy Logic and Applications
Elective-II	• Wireless Sensor Networks
• Embedded Systems	• EMIC
• Digital Signal Processor and Architecture	• Speech Signal Processing
• Optimization Techniques	• Advanced Digital design
• System Automation and Control	• Scripting Language
• Internet of Things	• Disaster Mitigation and Management
• Entrepreneurship	• General seminar
• Industrial Administration and Financial Management	• Data communication computer networks
	• Project

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CBCS CURRICULUM REGULATIONS(WEF 2016-17)

ECE I – Semester (2016-2017)	ECE II - Semester (2016-2017)
Engineering Mathematics I	Engineering Mathematics II
Engineering physics I	Engineering physics II
Engineering Chemistry I	Engineering Chemistry II
Engineering Mechanics I	Business Communication and Presentation Skills
Computer Programming and Problem Solving	Basic circuit Analysis
Engineering English	Electrical Technology
Engineering Physics Lab I	Engineering Physics Lab II
Engineering chemistry Lab I	Engineering chemistry Lab II
Engineering Graphics I	Computer Skills Lab
Computer Programming Lab	Communication Skills Lab
Engineering Workshop I	Electronic Workshop Lab
Engineering English Lab	

ECE III- Semester (2017-2018)	ECE IV - Semester (2017-2018)
Engineering Mathematics-III	Applied Mathematics
Elements of Mechanical Engineering	Analog Electronic Circuits
Electronic Devices	Pulse, Digital and Integrated Circuits
Switching Theory and Logic Theory	Probability Theory and Stochastic Processes
Signal Analysis and Transform Techniques	Electromagnetic Theory and Transmission Lines
Network Analysis and Synthesis	Environmental Sciences
Electrical Engineering Lab	Analog Electronic Circuits Lab
Electronic Devices and Logic Design Lab	Pulse, Digital and Integrated Circuits Lab

ECE V – Semester (2018-2019)	ECE VI- Semester (2018-2019)
Professional Elective-I	**Mandatory Course**
Linear ICs and Application	Digital Communication

Analog Communication	Antenna and Wave Propagation
Digital Signal Processing	Microprocessor and Microcontroller
Automatic Control Systems	Managerial Economics and Accountancy
Computer Organization and Architecture	Communication Lab
Digital System Design with VERILOG HDL	Microprocessor and Microcontroller Lab
Gender Sensitization	Summer Internship
IC Applications Lab	**Professional Elective-I**
Systems and Signal Processing Lab	• Digital Image Processing
Industrial Visit	• Data Communication and Computer Networking
Open Elective-I	• Optical Communication
• Automotive Safety and ergonomics	• Digital TV Engineering
• Disaster Management	**Open Elective-I**
• Geo spatial Techniques	• Automotive Safety and ergonomics
• Operating Systems	• Disaster Management
• Oops using Java	• Geo spatial Techniques
• Principles of Embedded Systems	• Operating Systems
• Digital System Design Using Verilog HDL	• Oops using Java
• Reliability Engineering	• Principles of Embedded Systems
• Basics Of Power Electronics	• Digital System Design Using Verilog HDL
• Industrial Robotics	• Reliability Engineering
• Material Handling	• Basics Of Power Electronics
• Intellectual Property Rights	• Industrial Robotics
	• Material Handling
	• Intellectual Property Rights
	Mandatory Course (MC)
	• Yoga practice
	• National service scheme
	• Sports

ECE VII – Semester (2019-2020)	**ECE VIII – Semester (2019-2020)**
Industrial administration and financial Management	**Professional Elective-IV**
Embedded system design	• Wireless sensor networks
VLSI design	• Global navigational satellite systems
Microwave techniques	• System Verilog
Professional Elective -II	• Multi rate system processing
• Mobile and cellular communication	**Professional Elective-V**

• Speech signal processing	Real time operating system
• Electronic measurement and instrumentation	Fuzzy logic and applications
• Digital signal processor architectures	Radar systems
Professional Elective-III	Digital fault tolerant system
• Field programmable gate arrays	OE-III
• Internet of things	Fundamentals of IC design
• Neural networks	Wireless communication
• Satellite communication	Human values and professional ethics
Open Elective-II	General seminar
• Principles of electronic communication	Project work/Internship (Full time)
• Fundamentals of IOT	
Microwave Lab	
Electronic Design and Automation Lab	
Project seminar	
Summer Internship	

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AICTE MODEL CURRICULUM REGULATIONS(WEF 2018-19)

ECE I Semester (2018-2019)	ECE II Semester (2018-2019)
Mathematics-I	Mathematics-II
Computer programming and problem Solving	English
Chemistry	physics
Computer programming and problem Solving Lab	Basic Electronics
Chemistry lab	Physics Lab
Work shop Lab	Basic Electronic Engineering Lab
	English Lab
	Engineering Graphics lab

ECE III Semester (2019-2020)	ECE IV Semester (2019-2020)
Indian constitution	Environmental science
Effective Technical Communication in English	Essence of Indian traditional knowledge
Finance and Accounting	Industrial psychology
Mathematics -III	Biology for Engineers
Elements of mechanical Engineering	Signal and systems
Digital Electronics	Analog Electronic Circuits
Electronics Devices	Electromagnetic Theory and Transmission Lines
Network Theory	Pulse and Linear Integrated circuits
Electronic devices Lab	Computer Organization and Architecture
Electronic workshop	Analog Electronic Circuits Lab
	Pulse and Linear Integrated Circuit lab

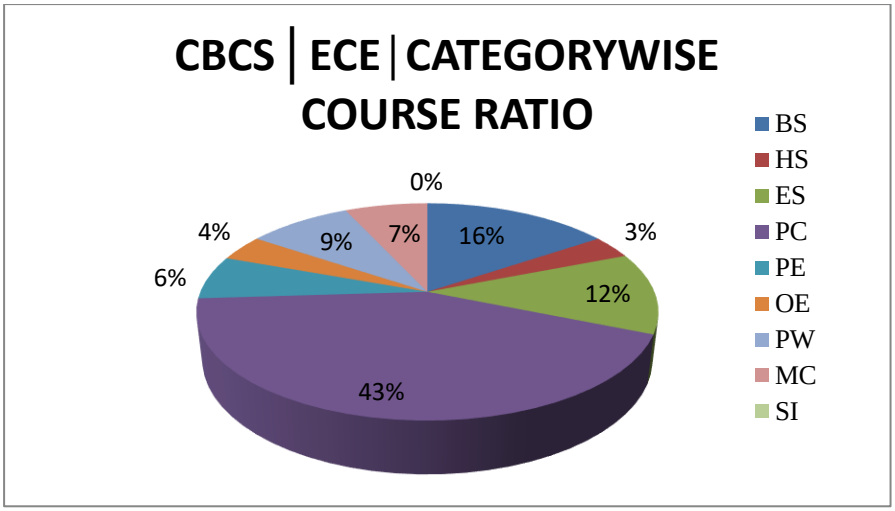
METHODIST COLLGE OF ENGG & TECHNOLOGY, HYD
DEPT OF ECE
CBCS CURRICULUM – ANALYSIS
TIMELINE:2016-17 TO 2019-20

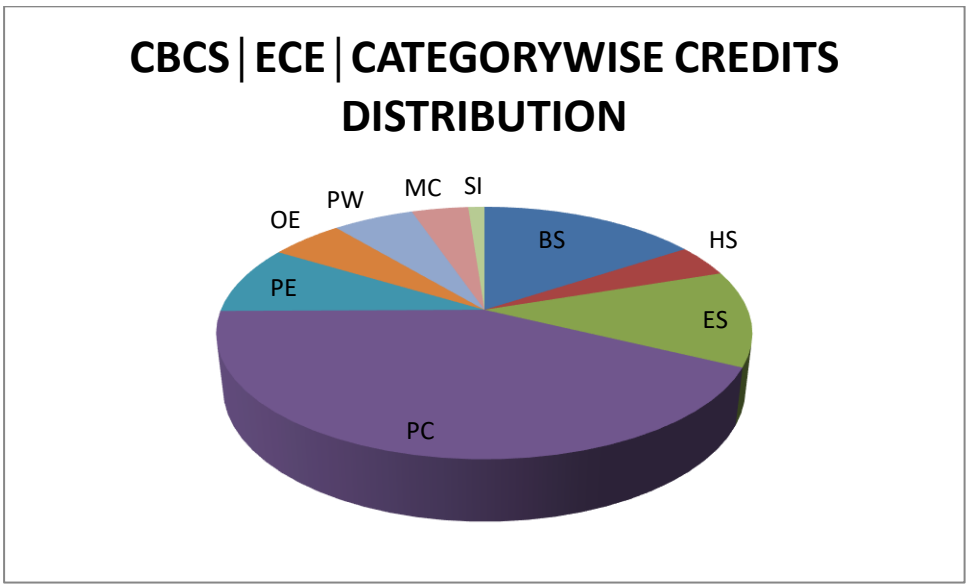
DEPT OF ECE ENGG - CBCS CURRICULUM ANALYSIS CHART					
Sl. No	**COURSE CATEGORY**	**COURSE RATIO**		**CREDITS DISTRIBUTION**	**HRS/WEEK**
		Number	**Percentage**		
1	BS-Basic sciences	12	16%	27	36
2	H&SS-Humanities & Soc sciences*	3	4%	7	8
3	ES-Engg Science	10	13%	21	28
4	PC-Prof. Course	33	44%	73	99
5	PE-Prof. Elective	5	7%	15	19
6	OE-Open Elective	3	4%	9	9
7	PW-Project Work	3	3%	10	20
8	MC-mandatory Course*	6	8%	7	16
9	SI-Summer Internship	1	1%	2	0

* Courses addressing cross cutting issues :

NSS, Environmental sciences, Gender sensitisation , Human values & Professional ethics , Yoga, Managerial Economics & accountancy, Disaster management & Mitigation,

METHODIST COLLGE OF ENGG & TECHNOLOGY, HYD
DEPT OF ECE
CBCS CURRICULUM – ANALYSIS
TIMELINE:2016-17 TO 2019-20





METHODIST COLLGE OF ENGG & TECHNOLOGY, HYD
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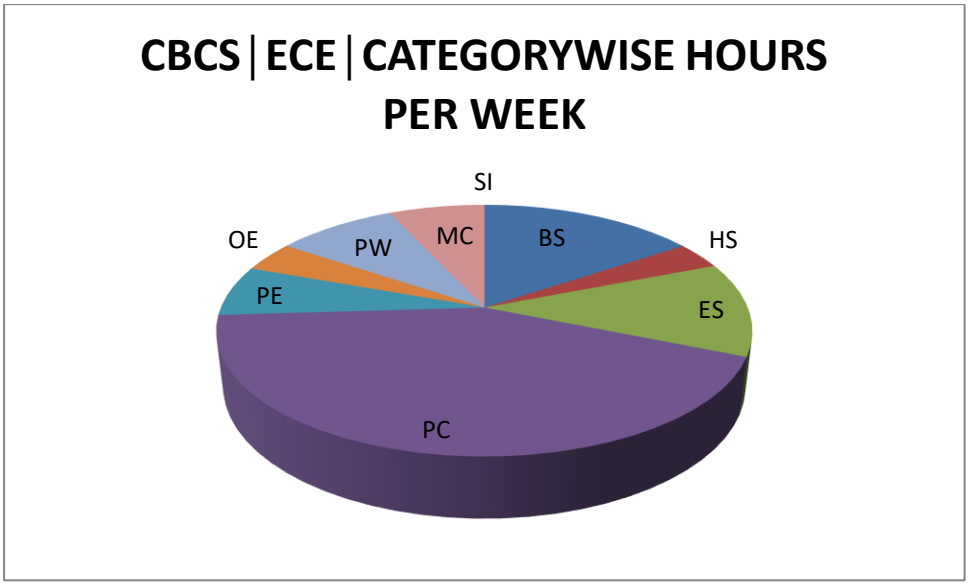
CBCS CURRICULUM – ANALYSIS
TIMELINE:2016-17 TO 2019-20



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DEPARTMENT OF MECHANICAL ENGINEERING
NON-CBCS CURRICULUM REGULATIONS (WEF 2014-15)

I YEAR
English
Mathematics -1
Mathematics -II
Engineering Physics
Engineering Chemistry
Programming in C & C++
Enginering Mechanics
Engineering Graphics
Physics lab
Chemistry Lab
Workshop practice
Programming Lab
English Language Lab

II - I SEM	II-II SEM
Mathematics- III	Mathematics -IV
Metallurgy and Material Science	Kinematics of Machines
Machine Drawing	Electrical Circuits & Machines
Mechanics of Materials	Thermodynamics
Environmental Studies	Basic Electronics
Managerial Economics & Accountancy	Fluid Dynamics
Metallurgy Lab	Electrical Circuits & Machines Lab
Computer Drafting Lab	Basic Electronics Lab
Mechanics of Materials Lab	
III -I SEM	**III-II SEM**
Applied Thermodynamics	Machine Design
Dynamics of Machines	Metal Cutting & Machine Tools
Design of Machine Elements	CAD / CAM
Hydraulic Machinery & Systems	Heat Transfer
Manufacturing Processes	Control Systems Theory
Thermodynamics Lab	Refrigeration & Air Conditioning
Hydraulic Machinery & Systems Lab	Metal Cutting & Machine Lab
Manufacturing Processes Lab	CAD / CAM Lab
IV -I SEM	**IV - II SEM**
Thermal Turbo Machines	Production Drawing
Metrology and Instrumentation	Production and Operations Management
Finite Element Analysis	ELECTIVE-II

Operation Research	Nano Materials & Technology
	Power Plant Engineering
Automobile Engineering	ELECTIVE-III
Non Conventional Energy Sources	Product Design & Process Planning
Thermal engineering Lab	Modern Machining and Forming Methods
Metrology and Instrumentation Lab	Seminar
CAE Lab	Project
Project Seminar	

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DEPARTMENT OF MECHANICAL ENGINEERING
CBCS CURRICULUM REGULATIONS (WEF 2016-17)

I SEM	II SEM
Engineering Mathematics -1	Engineering Mathematics -II
Engineering Physics-1	Engineering Physics-II
Engineering Chemistry-I	Engineering Chemistry-II
Engineering Mechanics-I	Business Communication and Presentation Skills
Computer Programming and Problem Solving	Engineering Mechanics-II
Engineering English	Engineering Physics Lab II
Engineering Physics Lab1	Engineering Chemistry Lab II
Engineering Chemistry Lab I	Computers Skills Lab
Engineering Drawing I	Communication Skills Lab
Computer Programming Lab	Engineering Graphics II
Engineering Workshop I	Engineering Workshop II
Engineering English Lab	
III SEM	**IV SEM**
Engineering Mathematics- III	Engineering Mathematics- IV
Mechanics of Materials	Electrical Circuits & Machines
Engineering Thermodynamics	Basic Electronics
Metallurgy and Material Science	Applied Thermodynamics
Fluid Mechanics	Kinematics of Machines
Environmental Sciences	Design of Machine Elements
Mechanics of Materials Lab	Electrical Circuits & Machines Lab
Machine Drawing	Basic Electronics Lab
Metallurgy Lab	Applied Thermodynamics Lab
V SEM	**VI SEM**
Dynamics of Machines	Metal Cutting & Machine Tools
Manufacturing Processes	Refrigeration & Air Conditioning
Machine Design	Hydraulic Machinery & Systems
Heat Transfer	Metrology & Instrumentation
Operations Research	Automobile Engineering
CAD/CAM	Professional Elective–I
Gender Sensitization	Non -Conventional Energy Sources / Modern Machining and Forming Methods
Computer Aided Production Drawing & CAM Lab	Open Elective – I

Manufacturing Processes Lab	Disaster Management
Dynamics Lab	Mandatory Course
	Yoga Practice
	Metrology & Machine Tools Lab
	Hydraulic Machinery Lab
	Mandatory Course
	Summer Internship
VII SEM	**VIII SEM**
Thermal Turbo Machines	Non-Destructive Testing/Design of Solar Energy System
Finite Element Analysis	PE- IIIPower Plant Engineering/Product Design And Process Planning
Industrial Engineering	PE- IV-E Additive Manufacturing Technology/Entrepreneurship Development
Production &Operations Management	PE- V-Waste Heat Recovery and Co-Generation/Energy Conservation and Management
Managerial Economics &Accountancy	Project Work – II
Open Elective-II -IOT	
Open Elective-III -Road Safety Engg	
Thermal Engineering Lab	
CAE Lab	
Project Work – I	
Summer Internship	

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DEPARTMENT OF MECHANICAL ENGINEERING
AICTE MODEL CURRICULUM REGULATIONS (WEF 2018-19)

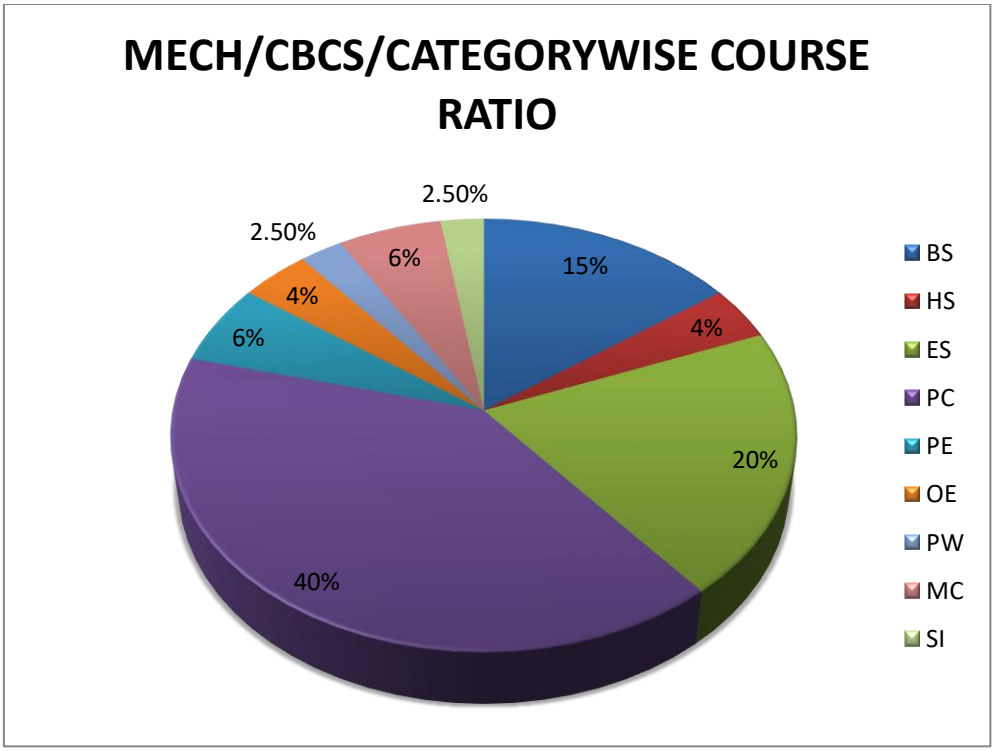
I SEM	II SEM
Mathematics -1	English
Physics	Mathematics -II
Basic Electrical Engineering	Chemistry
Physics Lab	Programming for Problem Solving
Basic Electrical Engineering Lab	English Lab
Engineering Graphics and Design	Chemistry Lab
	Programming for Problem Solving Lab
	Workshop/ Manufacturing Process Lab
III SEM	**IV SEM**
Indian Constitution	Environmental Science
Effective Technical Communication in English	Essence of Indian TraditionalKnowledge
Finance and Accounting	Industrial Psychology
Mathematics-III	Biology for Engineers
Engineering Mechanics	Energy Sciences and Engineering
Basic Electronics	Mechanics of Materials
Metallurgy and Material Science	Applied Thermodynamics
Thermodynamics	Kinematics of Machinery
Metallurgy and Material Testing Lab	Manufacturing Processes
Machine Drawing and Modelling Lab	Thermal Engineering Lab – I
	Manufacturing Processes Lab

E METHODIST COLLGE OF ENGG & TECHNOLOGY, HYD
DEPT OF MECH ENGG
CBCS CURRICULUM – ANALYSIS
TIMELINE:2016-17 TO 2019-20

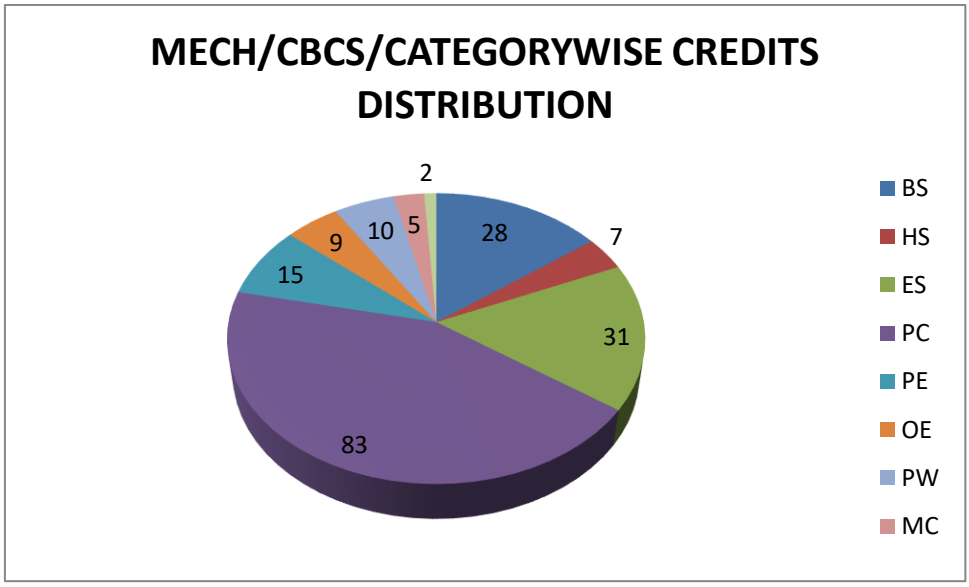
DEPT OF MECH ENGG - CBCS CURRICULUM ANALYSIS CHART					
Sl. No	COURSE CATEGORY	COURSE RATIO		CREDITS DISTRIBUTION	HRS/WEEK
		Number	Percentage		
1	BS-Basic sciences	28	15%	28	36
2	H&SS-Humanities & Soc sciences	7	4%	07	5
3	ES-Engg Science	31	16%	31	42
4	PC-Prof. Course	83	44%	83	97
5	PE-Prof. Elective	15	8%	15	15
6	OE-Open Elective	09	5%	09	06
7	PW-Project Work	10	5%	10	20
8	MC-mandatory Course	05	3%	05	14
9	SI-Summer Internship	2	1%	02	2

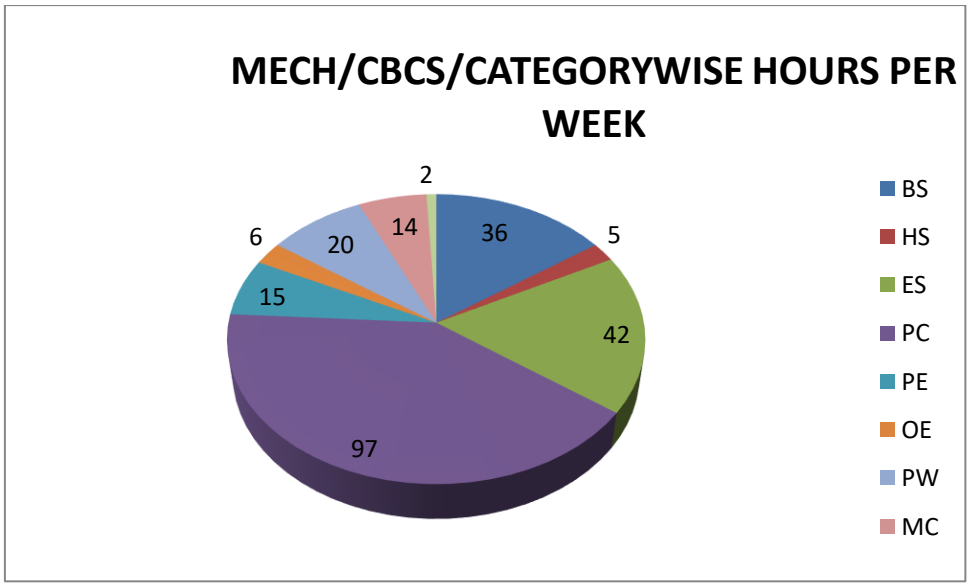
* Courses addressing cross cutting issues :

NSS, Environmental sciences, Gender sensitisation , Yoga, Managerial Economics & accountancy, Disaster management & Mitigation



E METHODIST COLLGE OF ENGG & TECHNOLOGY, HYD
DEPT OF MECH ENGG
CBCS CURRICULUM – ANALYSIS
TIMELINE:2016-17 TO 2019-20





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Dept of Business Management

Non-CBCS CURRICULUM REGULATIONS

MBA-1 YEAR I-SEMESTER	MBA-1 YEAR II-SEMESTER
• Management and Organizational Behaviour	• Human Resource Management
• Managerial Economics	• Business Process Reengineering
• Financial Accounting and Analysis	• Financial Management
• Marketing Management	• Research for Marketing Decisions
• Statistics for Management	• Operations Research
• Business Law and Environment	• Operations Management

MBA-2 YEAR III-SEMESTER	MBA-2 YEAR IV-SEMESTER
• Total Quality Management	• Strategic Management
• International Business	• Supply Chain Management
• Managerial Communication * (CBCS)	• Entrepreneurial Development (CBCS)
• **Finance** (Students are required to select any one subject from Minor in addition to Major) 1. Investment Management (Major) 2. Strategic Management Accounting (Minor) 3. International Finance (Minor)	• **Finance** (Students are required to select any one subject from Minor in addition to Major) 1. Financial Risk Management (Major) 2. Banking and Insurance (Minor) 3. Financial Services and Systems (Minor)

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Dept of Business Management

CBCS CURRICULUM REGULATIONS

MBA-1 YEAR I-SEMESTER	MBA-1 YEAR II-SEMESTER
• Management & Organizational Behaviour	• Human Resources Management
• Accounting for Management	• Financial Management
• Marketing Management	• Business Research Methods
• Open Elective-I (Choose One) 1. Business Law &Ethics 2. Fundamentals of Technology Management 3. Managerial Economics	• Open Elective-III (Choose One) 1.Economic Environment and Policy 2.Business Process Re-engineering 3.International Business 4.Financial Markets & Services
• Open Elective –II (Choose One) 1. IT Applications for Management 2. Business Communication 3. Customer Relationship Management	• Open Elective-IV (Choose One) 1. Total Quality Management 2. Strategic Management Accounting 3. Start Up Management 4. Retail Management
• Computer Practicals	• Seminar

MBA-2 YEAR III-SEMESTER	MBA-2 YEAR IV-SEMESTER
• Operations Management	• Strategic Management
• E- Business	• Business Intelligence
• Operations Research	• Supply Chain Management
• Discipline Specific Elective- I 1. Financial Risk Management(Finance) 2.Product & Brand Management (Marketing) 3.Compensation Management (Human Resource) 4.Decision Support Systems (System)	• DS Elective- III 1.Investment Management (Finance) 2.Consumer Behaviour (Marketing) 3.Performance Management (Human Resource) 4.Data Base Management Systems (System)
• Discipline Specific Elective – II 1. International Finance(Finance) 2. Promotion & Distribution Management(Marketing) 3. Organization Development (Human Resource) 4. Business Analytics (Systems)	• DS Elective- IV 1.Banking & Insurance (Finance) 2.Services & Global Marketing (Marketing) 3.Talent &Knowledge Mgt (Human Resource) 4.Software Project Management (System)
• Innovation Management	• Project Work
• Tutorials - Project work Synopses	• Comprehensive Viva - Voce