



Estd : 2008

METHODIST

COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad

Abids, Hyderabad, Telangana, 500001

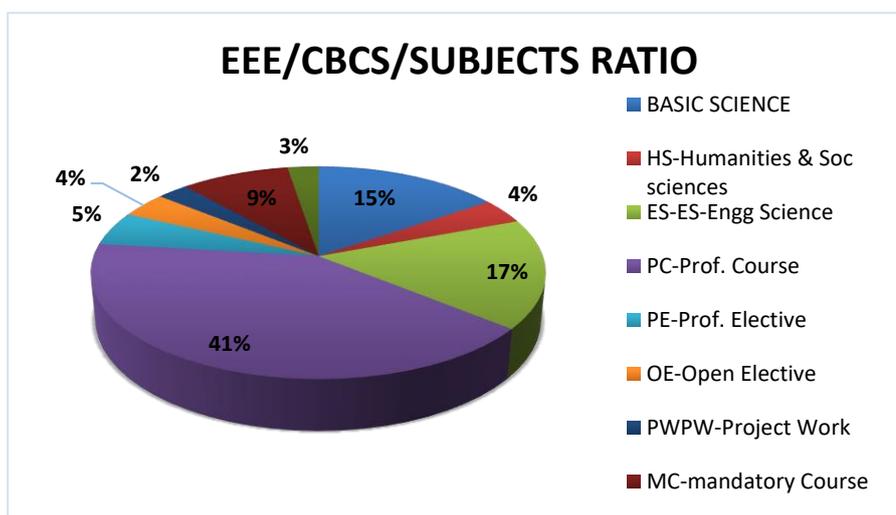
1.2.2 Percentage of programs in which CBCS/Elective course system has been implemented								
TIME LINE:2016-17 TO 2019 -20								
DEPARTMENTS	2019-20		2018-19		2017-18		2016-17	
	CBCS COURSES	TOTAL COURSES	CBCS COURSES	TOTAL COURSES	CBCS COURSES	TOTAL COURSES	CBCS COURSES	TOTAL COURSES
CIVIL	73	73	55	70	42	75	23	74
CSE	77	77	55	69	42	74	23	71
ECE	73	73	53	68	41	76	23	74
EEE	75	75	61	75	40	71	23	70
MECH(UG)	75	75	53	68	42	74	24	73
MECH(PG)	0	14	0	14	0	14	0	14
MBA	26	26	26	26	26	26	12	28
TOTAL CBCS COURSES	399	413	303	376	233	396	128	390
AVG. PERC. OF CBCS COURSES (%)	100.00		80.59		58.84		32.82	

SUMMARY

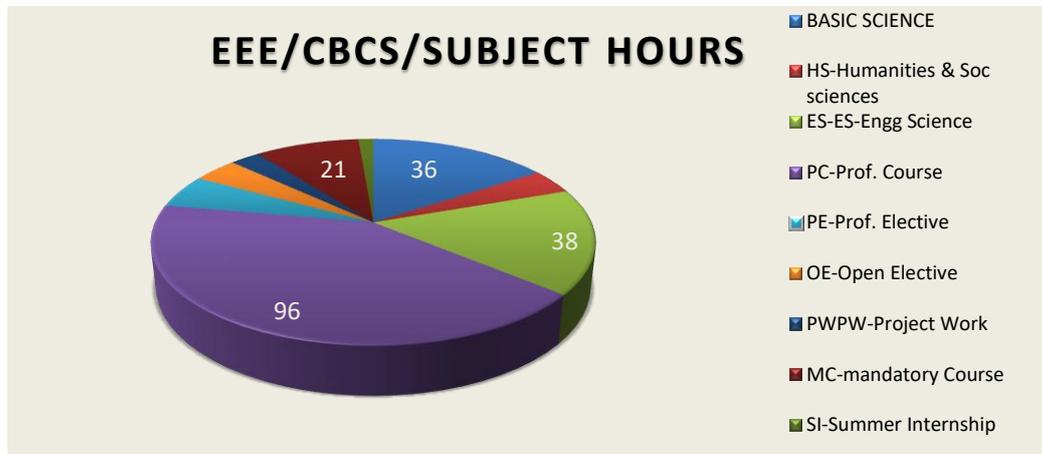
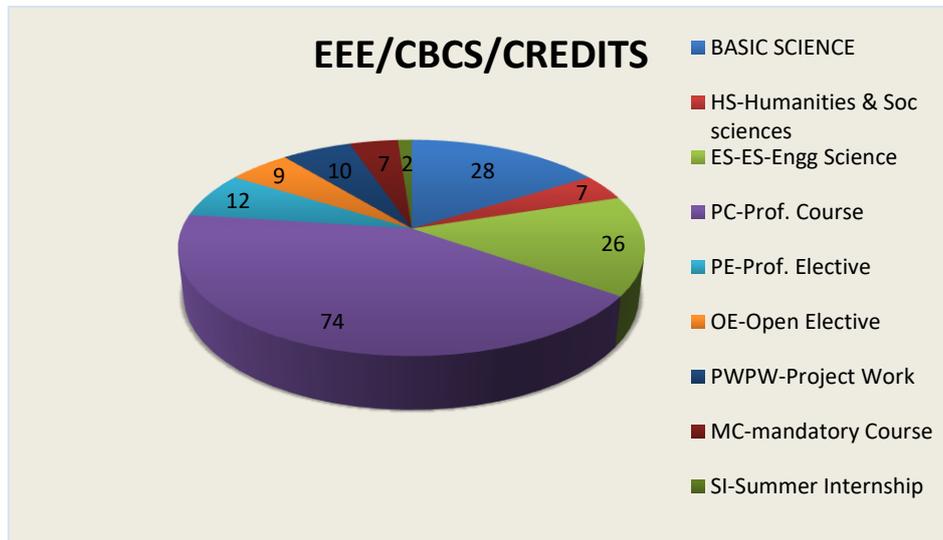
- The yearwise percentage of CBCS courses under 5- Engineering programs & DBM are summarised in above table
- In 2016-17 , CBCS curriculum was implemented for I yr students and subsequently in 2017-18 for II Yrs, 2018-19 for III & 2019-20 for IV Yr students
- In 2016-17, CBCS curriculum was implemented for I yr DBM students, and subsequently for II yrs 2017-18
- In 2018-19, AMC curriculum was implemented for I yr BE
- The uploaded PDF includes : Official CBCS implementation related document, scanned Elective details for CBCS curriculum in V VI , & VII semesters of Engg , I to IV semesters for MBA & ME(CAD CAM) programs

METHODIST COLLEGE OF ENGG & TECHNOLOGY, HYD
DEPT OF EEE ENGG
CBCS CURRICULUM – ANALYSIS
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



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



2019

Minutes of the meeting of the Faculty of Engineering, Osmania University held on 25th June, 2019 at 10.30am in the committee room, Administrative Building, Osmania University.

III & IV Sem AICTE

Members Present:

1. Prof. P. Laxminarayana, Dean, Faculty of Engineering, Osmania University
2. Prof. P. Premchand, Dean, Faculty of Informatics, OU
3. Prof. P. Raja Sekhar, CBoS, Dept. of Civil Engineering, OU
4. Prof. P.V. Sudha, CBoS, Dept. of CSE, OU.
5. Dr. R. Hemalatha, CBoS, Dept. of ECE, OU.
6. Prof. B. Mangu, CBoS, Dept. of Electrical Engineering, OU
7. Prof. M.C.S. Reddy, CBoS, Dept. of Mechanical Engineering, OU
8. Prof. M. Malini, CBoS, Dept. of BME, OU.
9. Prof. P. V. N. Prasad, Dept. of EE, UCE, OU
10. Prof. G. Mallesham, Head, Dept. of Electrical Engineering, OU
11. Prof. Prof. M Gopal Naik, Head, Dept. of Civil Engineering, UCE, OU
12. Prof. P. Chandra Sekhar, Head, Dept. of ECE, UCE, OU
13. Prof. M. Malini, Head, Dept. of BME, OU.
14. Prof. K. Shamala, Dept. of CSE, OU
15. The Principal, CBIT, Hyderabad.
16. The Principal, MVSR Engg. College, R.R. Dist
17. The Principal, MJCET, Hyderabad.
18. The Principal, DCET, Hyderabad.
19. The Principal, Methodist College of Engg. Hyderabad.
20. The Principal, Matrusri College of Engg. Hyderabad.
21. Prof. D. Jaya Prakash, NGIT, Hyderabad, (Spl. Invitee)
22. Dr. K. Regin Bose, Principal, Swathi Institute of Tech&Sc, Hyderabad (Spl. Invitee)
23. Prof. Syed Abdul Sattar, Principal, NSAKCET, Hyderabad(Spl. Invitee)
24. Prof. Mohd. Yousuf Ali, Principal, Lords Engg., College, Hyderabad(Spl. Invitee)
25. Prof. Mir Iqbal Faheem, Vice Principal, DCET, Hyderabad (Spl. Invitee)
26. Prof. N.V. Koteswara Rao, CBIT, Hyderabad. (Spl. Invitee)

Agenda for the meeting:

1. To consider the CBCS Scheme and Syllabus for B.E. (4th - Year) VII & VIII - Semesters in the Osmania University Affiliated Engineering Colleges.
2. To consider the revised Scheme for B.E. (1st - Year) I & II - Semester as per AICTE Model Curriculum with from effect the academic Year 2019-2020 in the Osmania University Affiliated Engineering Colleges.
3. To consider the Scheme and Syllabus for B.E. (2nd - Year)-III & IV - Semesters as per AICTE Model Curriculum with effect from the academic Year 2019-2020 in the Osmania University Affiliated Engineering Colleges.
4. To consider the Scheme for B.E. (3rd & 4th - Yrs) - V, VI, VII and VIII - Semesters as per AICTE Model Curriculum in the Osmania University Affiliated Engineering Colleges.
5. To consider the Scheme and Syllabus for M.E. (AICTE Model Curriculum) to be initiated with effect from the academic Year 2019-2020 in the Osmania University Affiliated Engineering Colleges.
6. Any other matter with the permission of the chair.


HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD

At the outset Dean, Faculty of Engineering, Osmania University welcomed all the members and the special invitees to the meeting.

- Dean, Faculty of Engineering, began the meeting with a power point presentation to apprise the members about the agenda for the meeting and the related issues pertaining to the finalization of scheme and syllabi for B.E. (4th - Year-CBCS) VII & VIII Semesters and the scheme and syllabi for B.E. (2nd - Year) III & IV semesters and for all M.E. /M.Tech., courses as per the AICTE model curriculum.
- The respective Chairpersons-BoS of the Departments of Civil Engineering, Computer Science Engineering, Electronics and Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering respectively presented the details of the subjects and syllabus for all the engineering streams, including Information Technology, Electrical and Instrumentation Engineering, Production Engineering and Automobile Engineering.

The following resolutions were taken after thorough discussion amongst the members present:

- B.E. (4th - Year, CBCS) VII and VIII - Semester for the academic year 2019-2020.
 - Summer Internship of 4 weeks duration is included after the completion of the Semester-VI, which shall be evaluated internally by respective colleges in Semester-VII.
 - All open elective courses are placed in the Semester-VII only and Professional Elective courses are placed in the Semester-VIII.
 - Those of the students willing to register for MOOCs in semester-VIII instead of Professional Electives III, IV & V, should register for those courses approved by the CBoS, OU and respective college MOOCs Coordinators. Such students are strictly not permitted to appear for either CIE or SEE of Professional Electives, if they abstain from attending the semester class work. Further, the students who choose to appear for both MOOCs and Professional Electives must fulfill the minimum attendance criteria in the Professional Electives.
 - The responsibility of passing the MOOCs lies entirely on the student. If he/she fails the MOOCs, she is not eligible to write the supplementary exam for the corresponding Professional Elective. He/she has to clear another MOOC course of the same number of credits in the following semester or year.
 - **The members of the faculty of Engineering unanimously approved the CBCS scheme and syllabi of all the Departments.**
- B.E. III and IV - Semester as per AICTE Model Curriculum with from effect the academic Year 2019-2020.
 - The four Mandatory Courses as prescribed in the AICTE model curriculum, namely, the Induction program, Environmental Science, Indian Constitution and Essence of Indian Traditional Knowledge, shall be covered for all branches within the first two semesters only, starting from this Academic Year 2019-20, and henceforth continue for future

admissions as well. This is done so as to reduce the burden of coursework for students in the further semesters.

- However, as the above mandatory courses were not offered to the students admitted during the Academic Year 2018-19, except for the Induction Program, the students have to complete the mandatory courses in the B.E. III and IV - Semesters. Thus, for this particular academic year, the mandatory courses have to be simultaneously offered to both the first year (I & II - Semesters) and second year (III & IV - Semesters) students.
 - The three mandatory courses as prescribed in the AICTE model curriculum, namely, Environmental Science, Indian Constitution and Essence of Indian Traditional Knowledge, shall be compulsorily offered for all branches within the third and fourth semesters only.
 - The common courses under various heads such as Humanities & Social Sciences, Basic Sciences, Engineering Sciences and Mandatory Courses were listed and their distribution across various branches in the III and IV- Semesters was listed.
 - **The members of the faculty of Engineering unanimously approved the AICTE-MC UG scheme and syllabi of all the Departments.**
- M.E. /M.Tech. I, II, III and IV - Semesters as per AICTE Model Curriculum with from effect the academic Year 2019-2020.
- The distribution of professional core, professional electives, open electives, mandatory courses and project work over the four semesters was listed by respective Departments and the same was approved.
 - **The members of the faculty of Engineering unanimously approved the AICTE-MC P.G. scheme and syllabi of all the Departments.**
 - ✓ The members unanimously approved the rules and regulations for both UG and PG courses, the same rules will be followed by the College of Engineering, Osmania University and all the OU affiliated Engineering Colleges & OU affiliated Engineering Colleges (Autonomous).
 - ✓ Dean, Faculty of Engineering and the members, while thanking all the Chairperson, Board of Studies for all their efforts.
 - ✓ The proposal put forth by a representative from CBIT pertaining to the award of B.E.(Hons.) degree after the student obtains 20 additional Credits as per the AICTE norms and OU rules and regulations was agreed upon unanimously by the members and the same was approved by the members of the faculty of Engineering.

he meeting ended with Dean, Faculty of Engineering thanking all the members for their active participation and in turn all the members present profusely thanked the Dean, Faculty of Engineering for all his efforts in finalizing the scheme and syllabi for the UG and PG courses in faculty of Engineering.

Dean
Faculty of Engineering
Osmania University


4 HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD

SCHEME OF INSTRUCTION & EXAMINATION
B.E. V – Semester
(ELECTRICAL AND ELECTRONICS ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1.	PC501EE	Power Systems-II	3	-	-	4	30	70	3	3
2.	PC502EE	Electrical Machines-II	3	-	-	4	30	70	3	3
3.	PC503EE	Electrical Measurements and Instrumentation	3	1	-	4	30	70	3	3
4.	PC504EE	Linear Control Systems	3	1	-	4	30	70	3	3
5.	PC505EE	Digital Signal Processing and Applications	3	1	-	4	30	70	3	3
6.	PE-1	Professional Elective-I	3	-	-	3	30	70	3	3
7.	MC901EG	Gender Sensitization	3	-	-	3	30	70	3	0
Practical / Laboratory Courses										
8.	PC551EE	Electrical Machines Lab-1	-	-	2	2	25	50	3	1
9.	PC552EE	Power Electronics Lab	-	-	2	2	25	50	3	1
10.	PC553EE	Circuits & Measurements Lab	-	-	2	2	25	50	3	1
		Total	21	3	6	30	285	640		21

Professional Elective-1

PE501EE	Programmable Logic controllers
PE502EE	Electronic Instrumentation
PE503EE	FACTS Devices

MC: Mandatory Course

PC: Professional Course

HS: Humanities and Sciences L: Lecture

T: Tutorial

P : Practical

D: Drawing

CIE:

Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

Note: 1) Each contact hour is a Clock Hour

2) The practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.


 Head of Department
 Department of EEE
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SCHEME OF INSTRUCTION & EXAMINATION
B.E. VI – Semester
(ELECTRICAL AND ELECTRONICS ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	Pr/Dr g	Contact Hrs/Wk	CI E	SE E	Duration in Hrs	
Theory Courses										
1.	PC601EE	Electrical Machines-III	3	1	-	4	30	70	3	3
2.	PC602EE	Microprocessors and Microcontrollers	3	1	-	4	30	70	3	3
3.	PC603EE	Switchgear and Protection	3	-	-	3	30	70	3	3
4.	PC604EE	Renewable Energy Technologies	3	-	-	3	30	70	3	3
5.	PE-II	Professional Elective-II	3	-	-	3	30	70	3	3
6.	OE-I	Open Elective-I	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
7.	PC651EE	Electrical Machines lab-II	-	-	2	2	25	50	3	1
8.	PC652EE	Digital signal Processing Lab	-	-	2	2	25	50	3	1
9.	PC653EE	Control systems lab	-	-	2	2	25	50	3	1
10.	MC	Mandatory Course			3	3	50	-		-
11.	SI	Summer Internship*								
			18	2	9	29	305	570		21

Professional Elective-II

PE601EE	AI Techniques
PE602EE	Electric Distribution System
PE603EE	Digital Control systems

Mandatory course

MC951SP	Yoga Practice
MC951SP	National Service Scheme
MC951SP	Sports

Open Elective-1

OE601CE	Disaster Management
OE602CE	Geospatial Techniques
OE601CS	Operating Systems
OE602CS	OOPS using JAVA
OE601EC	Embedded Systems
OE602EC	Digital System Design Using Verilog HDL
OE601EE	Reliability Engineering**
OE602EE	Basics of Power Electronics**
OE601ME	Industrial Robotics
OE602ME	Material Handling
OE601LA	Intellectual Property Rights


Head of Department
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SCHEME OF INSTRUCTION & EXAMINATION
B.E.VII- SEMESTER (CBCS)
(Electrical & Electronics Engineering)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hours/Week	CIE	SEE	Duration in Hours	
Theory Course										
1.	PC701EE	Power System Operation and Control	3	1	-	4	30	70	3	3
2.	PC702EE	Electric Drives and Static Control	3	1	-	4	30	70	3	3
3.	PC703EE	Electrical Machine Design	3	1	-	4	30	70	3	3
4.	OE-II	Open Elective - II	3	-	-	3	30	70	3	3
5.	OE-III	Open Elective - III	3	-	-	3	30	70	3	3
Practical's / Laboratory Course										
6.	PC751EE	Electrical Simulation Lab	-	-	2	2	25	50	3	1
7.	PC752EE	Microprocessor and Microcontrollers Lab	-	-	2	2	25	50	3	1
8.	PW761EE	Project Work -I	-	-	2	2	50	-	-	2
9	SI	Summer Internship(Evaluation)	-	-	2	2	50	-	-	2
Total			15	03	8	13	300	450	-	21

OPEN ELECTIVE-II	
OE701 CE	Green Building Technologies
OE701CS	Database Management Systems
OE702 EC	Fundamentals of IoT
OE701EE	Non-Conventional Energy Sources**
OE701ME	Entrepreneurship

OPEN ELECTIVE-III	
OE702CE	Road Safety Engineering
OE703CS	Data Science Using R Programming
OE703EC	Global and Regional Satellite Navigation Systems
OE702 EE	Illumination and Electric Traction systems**
OE702ME	Mechatronics

*OE701 & OE801EE Elective is not offered to the students of EE Department

HS: Humanities and Sciences

BS: Basic Science

ES: Engineering

Science MC: Mandatory Course

PC: Professional Core

L: Lecture

T: Tutorial

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation SEE: Semester End Examination (Univ. Exam)

SCHEME OF INSTRUCTION & EXAMINATION
B.E.VIII- SEMESTER (CBCS)
(Electrical & Electronics Engineering)

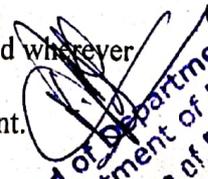
S. No.	Course Code	Course Title	Scheme of Instructions				Scheme of Examination			Credits
			L	T	P/D	Contact Hours/Week	CIE	SEE	Duration in Hours	
Theory Course										
1	PC801EE	Utilization of Electrical Energy	3	-	-	3	30	70	3	3
2	PE-III	Professional Elective- III	3	-	-	3	30	70	3	3
3	PE-IV	Professional Elective- IV	3	-	-	3	30	70	3	3
Practical's / Laboratory Course										
4.	PC851EE	Power Systems Lab	-	-	2	2	25	50	3	1
5.	PW861EE	Project Work- II	-	-	6	2	50	100	-	8
Total			09	00	08	13	165	360		18

PROFESSIONAL ELECTIVE-III	
PE801EE	Power System Reliability
PE802EE	Electric Vehicle and Hybrid Electric Vehicle
PE803EE	Machine Modeling Analysis
PE804EE	High Voltage DC Transmission

PROFESSIONAL ELECTIVE-IV	
PE805EE	Advanced Control Systems
PE806EE	Electrical Estimation Costing & Safety
PE807EE	Advanced Power Electronics
PE808EE	Power Quality

HS: Humanities and Sciences**BS:** Basic Science**ES:** Engineering**ScienceMC:** Mandatory Course**PC:** Professional Core**L:** Lecture**T:** Tutorial**P:** Practical**D:** Drawing**CIE:** Continuous Internal Evaluation **SEE:** Semester End Examination (Univ. Exam)**Note:**

- Each contact hour is a Clock Hour
- The duration of the practical class is two clock hours, however it can be extended whenever necessary, to enable the student to complete the experiment
- ** Open Elective Subject is not offered to the students of EEE & EIE Department.


 Head of Department
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