



Estd : 2008

METHODIST

COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Abids, Hyderabad, Telangana, 500001

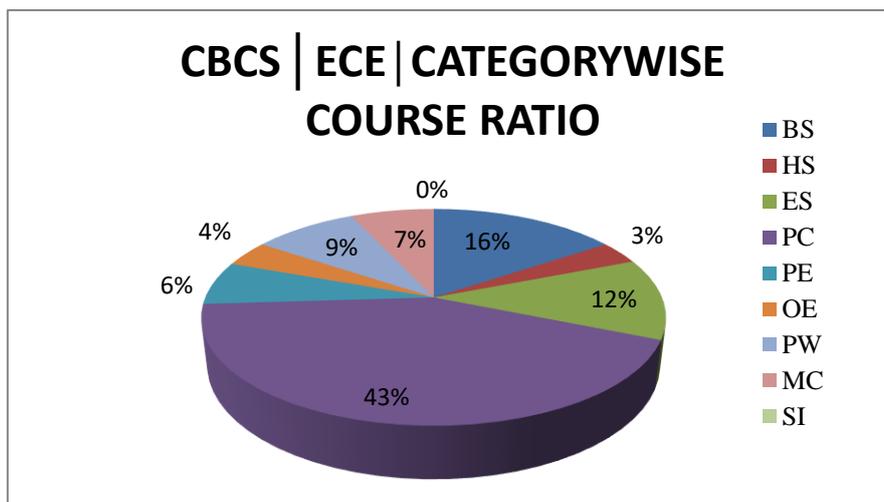
1.2.2 Percentage of programs in which CBCS/Elective course system has been implemented								
TIME LINE:2016-17 TO 2019 -20								
DEPARTMENTS	2019-20		2018-19		2017-18		2016-17	
	CBCS COURSES	TOTAL COURSES	CBCS COURSES	TOTAL COURSES	CBCS COURSES	TOTAL COURSES	CBCS COURSES	TOTAL COURSES
CIVIL	73	73	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

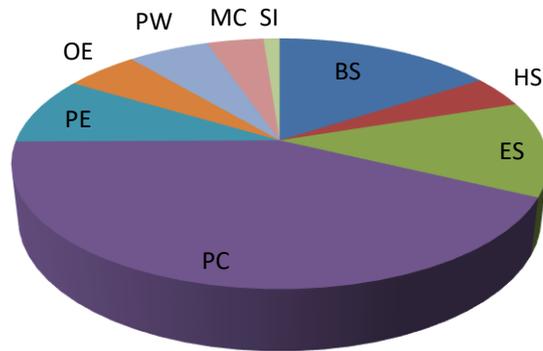
METHODIST COLLEGE OF ENGG & TECHNOLOGY, HYD
DEPT OF ECE
CBCS CURRICULUM – ANALYSIS
TIMELINE:2016-17 TO 2019-20

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

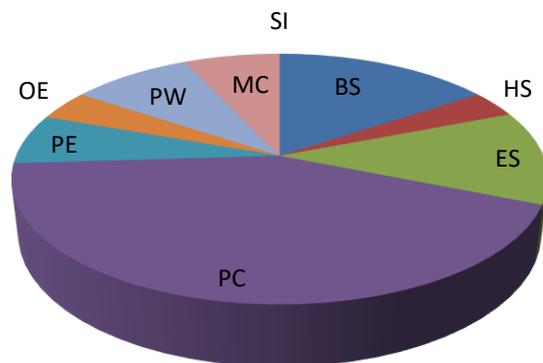


METHODIST COLLEGE OF ENGG & TECHNOLOGY, HYD
DEPT OF ECE
CBCS CURRICULUM - ANALYSIS
TIMELINE:2016-17 TO 2019-20

**CBCS | ECE | CATEGORYWISE CREDITS
DISTRIBUTION**



**CBCS | ECE | CATEGORYWISE HOURS
PER WEEK**



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. VI- SEMESTER
(ELECTRONICS AND COMMUNICATION ENGINEERING)

CBCS.
VI / VVI 8
VVI

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	PC601EC	Digital Communication	3	1	0	4	30	70	3	3
2	PC602EC	Antennas and wave propagation	3	1	0	4	30	70	3	3
3	PC603EC	Microprocessor and Microcontroller	3	1	0	4	30	70	3	3
4	HS604EC	Managerial Economics & Accountancy	3	0	0	3	30	70	3	3
5	PE – I	Professional Elective-I	3	0	0	3	30	70	3	3
6	OE – I	Open Elective-I	3	0	0	3	30	70	3	3
Practical/Laboratory Courses										
7	PC651EC	Communication Lab	0	0	2	2	25	50	3	1
8	PC652EC	Microprocessor and Microcontroller Lab	0	0	2	2	25	50	3	1
9	MC	Mandatory Course	-	-	3	3	50	-	3	0
10	PC653EC	Summer Internship*	-	-	-	-	50	-	-	-
Total			18	3	7	28	280	520		20

PC: Professional Course PE: Professional Elective OE: Open Elective

HS: Humanities and Social Science MC: Mandatory Course

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 therequirement of a particular laboratory.
3. *The students have to undergo a summer internship of four week duration after sixth semester and credits will be awarded in seventh semester after evaluation.

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

Professional Elective – I			Open Elective - I		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	PE671EC	Digital Image Processing	1	OE632AE	Automotive Safety & Ergonomics
2	PE672EC	Data Communication and computer networking	2	OE601CE	Disaster Management
3	PE673EC	Optical Communication	3	OE602CE	Geo Spatial Techniques
4	PE674EC	Digital TV Engineering	4	OE601CS	Operating Systems
			5	OE602CS	OOP using Java
			6	OE601EC	Principles of Embedded Systems **
			7	OE602EC	Digital System Design using Verilog HDL **
			8	OE601EE	Reliability Engineering
			9	OE602EE	Basics of Power Electronics
			10	OE601ME	Industrial Robotics
			11	OE602ME	Material Handling
			12	OE601LA	Intellectual Property Rights

Mandatory Course		
S. No.	Course Code	Course Title
1	MC951SP	Yoga Practice
2	MC952SP	National Service Scheme
3	MC953SP	Sports

Note: ** Indicates that subject is not offered to the students of Electronics and Communication Engineering Department.

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 HEAD OF THE DEPARTMENT
 DEPARTMENT OF ECE
 METHODIST COLLEGE FOR WOMEN & TECH.
 ABIDJEE, HYDRABAD

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VII - Semester
(ELECTRONICS AND COMMUNICATION 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	PC 701 EC	Embedded System	3	-	-	3	30	70	3	3
2	PC 702 EC	VLSI Design	3	-	-	3	30	70	3	3
3	PC 703 EC	Microwave Techniques	3	-	-	3	30	70	3	3
4	HS 707 ME	Industrial Administration and Financial Management	3	-	-	3	30	70	3	3
5		Professional Elective – II	3	-	-	3	30	70	3	3
6		Open Elective – II	3	-	-	3	30	70	3	3
7		Open Elective – III	3	-	-	3	30	70	3	3
8	MC 771 EG	Human Values and Professional Ethics	2	-	-	2	30	70	3	-
Practical/ Laboratory Courses										
9	PC 751 EC	Microwave Lab	-	-	2	2	25	50	3	1
10	PC 752 EC	Electronic Design & Automation Lab	-	-	2	2	25	50	3	1
11	PW 761 EC	Project Work – I	-	-	4	4	50	-	-	2
12	SI 762 EC	Summer Internship	-	-	-	-	50	-	-	2
			23	-	08	31	390	660		27

Professional Elective – II			Open Elective – II		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	PE 721 EC	Mobile and Cellular Communications	1	OE 771 CE	Green Building Technologies
2	PE 722 EC	Speech Signal Processing	2	OE 772 CS	Data Science Using R Programming
3	PE 723 EC	Electronic Measurements and Instrumentation	3	OE 773 EC**	Fundamentals of IoT
4	PE 724 EC	Digital Signal Processor Architectures	4	OE 774 EE	Non-Conventional Energy Sources
			5	OE 775 ME	Entrepreneurship
Open Elective – III					
S. No.	Course Code	Course Title			
1	OE 781 CE	Road Safety Engineering			
2	OE 782 IT	Software Engineering			
3	OE 783 EC**	Principles of Electronic Communications			
4	OE 784 EE	Illumination and Electric Traction systems			
5	OE 785 ME	Mechatronics			

PC: Professional Course
PE: Professional Elective
L: Lectures T: Tutorials
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.

Note-2: * The students have to undergo a Summer Internship of four weeks' duration after VI semester and credits will be awarded in VII semester after evaluation.

** Subject is not offered to the students of ECE Department.

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VIII - SEMESTER
(ELECTRONICS AND COMMUNICATION 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		Professional Elective – III	3	-	-	3	30	70	3	3
2		Professional Elective – IV	3	-	-	3	30	70	3	3
3		Professional Elective – V	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
5	PW961 EC	Project Work – II	-	-	16	16	50	100	-	8
			09	-	16	25	140	310		17

Professional Elective – II			Professional Elective – III		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	PE 821 EC	Field Programmable Gate Arrays	1	PE 831 EC	Wireless Sensor Networks
2	PE 822 EC	Internet of Things	2	PE 832 EC	Global Navigational Satellite Systems
3	PE 823 EC	Neural Networks	3	PE 833 EC	System Verilog
4	PE 824 EC	Satellite Communications	4	PE 834 EC	Multirate Signal Processing
Professional Elective – IV					
1	PE 841 EC	Real Time Operating Systems			
2	PE 842 EC	Fuzzy Logic And Applications			
3	PE 843 EC	Radar Systems			
4	PE 844 EC	Design of Fault Tolerant Systems			

PC: Professional Course

PE: Professional Elective

L: Lectures

T: Tutorials

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 duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment