

R24

**SCHEME OF INSTRUCTION & EXAMINATION
BE (Group B-CSE, CME, EEE,) SEMESTER-I**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
Three Week Induction Program										
1	MC802CE	Environmental Sciences	2	-	-	2	30	70	3	-
2	BS201MT	Matrices & Differential Calculus	3	1	-	4	30	70	3	4
3	BS204CH	Engineering Chemistry	3	1	-	4	30	70	3	4
4	ES302CS	Programming for Problem Solving	3	-	-	3	30	70	3	3
5	HS101EG	English	2	-	-	2	30	70	3	2
6	MC803PY	Essence of Indian Traditional Knowledge	2	-	-	2	30	70	3	-
Practical/Laboratory Courses										
7	BS252CH	Engineering Chemistry Lab	-	-	3	3	25	50	3	1.5
8	ES351CS	Programming for Problem Solving Lab	-	-	3	3	25	50	3	1.5
9	ES352ME	Engineering Workshop Practice	-	-	2x3	6	50	50	3	3
10	HS151EG	English Lab	-	-	2	2	25	50	3	1
Total			15	2	14	31	305	620	30	20


BE (Group B-CSE, CME, EEE) SEMESTER-II

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	MC801PO	Indian Constitution	2	-	-	2	30	70	3	-
2	ES301EE	Basic Electrical Engineering	3	1	-	4	30	70	3	4
3	BS202PH	Engineering Physics	3	1	-	4	30	70	3	4
4	BS203MT	Differential Equations & Numerical Methods	3	1	-	4	30	70	3	4
5	ES303CS	Scientific Programming	3	-	-	3	30	70	3	3
Practical/Laboratory Courses										
6	ES354EE	Basic Electrical Engineering Lab	-	-	2	2	25	50	3	1
7	BS251PH	Engineering Physics Lab	-	-	3	3	25	50	3	1.5
8	ES353CE	Engineering Graphics	-	-	2x2	4	50	50	3	2
9	ES353CS	Scientific Programming Lab	-	-	2	2	25	50	3	1
Total			14	3	11	28	275	650	27	20.5

BS: Basic Science ES: Engineering Science MC: Mandatory Course

L: Lecture T: Tutorial P: Practical D: Drawing

CIE: Continuous Internal Evaluation SEE: Semester End Evaluation


 4/9/24
 Prof. K. Shyamala
 I/c. DEAN
 Faculty of Engineering
 Osmania University,
 Hyderabad-500 007.

SCHEME OF INSTRUCTION & EXAMINATION
B.E (Computer Science and Engineering)
SEMESTER-III

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	ES 301 ME	Applied Operations Research	3	-	-	3	30	70	3	3
2	ES 301 EC	Basic Electronics	3	-	-	3	30	70	3	3
3	PC 301 CS	Data Structures	3	-	-	3	30	70	3	3
4	PC 302 CS	Discrete Mathematics	3	-	-	3	30	70	3	3
5	PC 303 CS	OOP using JAVA	3	-	-	3	30	70	3	3
6	PC 304 CS	Logic and Switching Theory	3	-	-	3	30	70	3	3
7	HS 201 EG	Effective Technical Communication in English	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
8	PC 351 CS	Data Structures Lab	-	-	2	2	25	50	3	1
9	ES 351 EC	Basic Electronics Lab	-	-	2	2	25	50	3	1
10	PC 352 CS	OOP using JAVA Lab			2	2	25	50	3	1
Total			21	--	6	27	285	640	30	24

SEMESTER-IV

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 401 CS	Automata Languages & Computation	3	-	-	3	30	70	3	3
2	HS 406 CM	Managerial Economics and Accountancy	3	-	-	3	30	70	3	3
3	BS 207 MT	Probability & Statistics	3	1	-	4	30	70	3	4
4	PC 402 CS	Operating Systems	3	-	-	3	30	70	3	3
5	PC 403 CS	Computer Organization	3	-	-	3	30	70	3	3
6	ES 401 EC	Signals and Systems	3	-	-	3	30	70	3	3
7	PC 404 CS	Database Management Systems	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
8	PC 451 CS	Operating Systems Lab	-	-	2	2	25	50	3	1
9	PC 452 CS	Computer Organization Lab	-	-	2	2	25	50	3	1
10	PC 453 CS	Database Management Systems Lab	-	-	2	2	25	50	3	1
Total			21	1	6	28	285	640	30	25

FACULTY OF ENGINEERING

Scheme of Instruction & Examination

(AICTE Model Curriculum)

**and
Syllabi**

B.E. V and VI Semesters

of

Four Year Degree Program

in

B.E (COMPUTER SCIENCE and ENGINEERING)

(w.e.f: 2022-23)



Issued by

Dean, Faculty of Engineering

Osmania University, Hyderabad – 500 007

2022

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Chairperson, BoS

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Dean, FoE OU

**SCHEME OF INSTRUCTION & EXAMINATION
B.E (Computer Science and Engineering)
SEMESTER-V**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 501 CS	Software Engineering	3	1	-	4	30	70	3	3
2	PC 502 CS	principles of Programming Languages	3	1	-	4	30	70	3	3
3	PC 503 CS	Automata Languages & Computation	3	1	-	4	30	70	3	3
4	PC 504 CS	Artificial intelligence	3	-	-	3	30	70	3	3
5	PC 505 CS	Computer Networks	3	-	-	3	30	70	3	3
6	PE-51X CS	Professional Elective-I	3	-	-	3	30	70	3	3
Practical/Laboratory Courses										
7	PC 551 CS	Software Engineering Lab	-	-	2	2	25	50	3	1
8	PC 552 CS	Artificial intelligence lab	-	-	2	2	25	50	3	1
9	PC 553 CS	Computer Networks LAB	-	-	2	2	25	50	3	1
Total			18	03	06	27	255	570		21

Profession Elective – I	
Course Code	Course Title
PE 511 CS	Parallel and Distributed Algorithms
PE 512 CS	Embedded Systems
PE 513 CS	Computer Graphics
PE 514 CS	Object oriented Analysis and Design
PE 515 CS	Data Science
PE 516 CS	Blockchain Technology

**SCHEME OF INSTRUCTION & EXAMINATION
B.E (Computer Science and Engineering)
SEMESTER-VI**

S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs/Wk	
Theory Courses										
1	PC 601 CS	Compiler Design	3	1	-	4	30	70	3	3
2	PC 602 CS	Design and Analysis of Algorithms	3	1	-	4	30	70	3	3
3	PC 603 CS	Machine learning	3	1	-	4	30	70	3	3
4	PC-604 CS	Cryptography and Network Security	3	-	-	3	30	70	3	3
5	PE-62X CS	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	PC 651 CS	Machine learning LAB	-	-	2	2	25	50	3	1
8	PC 652 CS	Design and Analysis of Algorithms Lab	-	-	2	2	25	50	3	1
9	PW 653 CS	Mini Project	-	-	4	4	25	50	3	2
10	SI 671 CS	Summer Internship*	-	-	-	-	-	-	-	-
Total			18	3	8	29	255	570		22

Profession Elective – II	
Course Code	Course Title
PE 621 CS	Quantum Computing
PE 622 CS	Advanced Computer Architecture
PE 623 CS	Image Processing
PE 624 CS	Software Testing
PE 625 CS	Data Mining
PE 626 CS	Mobile Computing

Open Elective – I	
Course Code	Course Title
OE601 CS	OOP using Java (Not for CSE Students)
OE602 CS	Data Structure and Algo. (Not for CSE Students)

FACULTY OF ENGINEERING

Scheme of Instruction &

Examination(AICTE Model Curriculum)

and Syllabi

B.E. VII and VIII Semesters

of

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in

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SCHEME OF INSTRUCTION & EXAMINATION**BE (COMPUTER SCIENCE AND ENGINEERING) SEMESTER – VII**

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 CS	Distributed Systems	3		-	3	30	70	3	3
2	PE 73X CS	Professional Elective –III	3	-	-	3	30	70	3	3
3	PE 74X CS	Professional Elective –IV	3	-	-	3	30	70	3	3
4	OE-II	Open Elective -II	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
5	PC 751 CS	Distributed Systems Lab	-	-	2	2	25	50	3	1
6	PC 752 CS	Web Technologies Lab	-	-	4	4	25	50	3	2
7	PW 751 CS	Project Work – I	-	-	6	6	50	-	-	3
8	SI 671 CS	Summer Internship	-	-	-	-	50	-	-	2
Total			12	00	12	24	270	380		20

Professional Elective – III		Professional Elective – IV	
Course Code	Course Title	Course Code	Course Title
PE 731 CS	Computational Complexity	PE 741 CS	Queueing Theory and Modelling
PE 732 CS	Advanced Operating Systems	PE 742 CS	Cloud Computing
PE 733 CS	Multimedia Technologies	PE 743 CS	Augmented and Virtual Reality
PE 734 CS	Software Reuse Techniques	PE 744 CS	Software Quality and Assurance
PE 735 CS	Information Retrieval System	PE 745 CS	Deep Learning
PE 736 CS	Big data analytics	PE 746 CS	Information Security

Open Elective - II	
Course Code	Course Title
OE 701 CS	Web Application Development
OE 702 CS	Principles of Python

**SCHEME OF INSTRUCTION
BE (COMPUTER SCIENCE AND ENGINEERING) CSE-Semester -VIII**

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	PE 85X CS	Professional Elective -V	3	-	-	3	30	70	3	3
2	OE-III	Open Elective – III	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
3	PW861 CS	Project Work – II	-	-	16	16	50	100	3	8
Total			06	-	16	16	110	240	-	14

Professional Elective –V		Open Elective - III	
Course Code	Course Title	Course Code	Course Title
PE 851 CS	Information Theory and Coding	OE 801 CS	Software Engineering
PE 852 CS	Internet of Things	OE 802 CS	Neural Networks
PE 853 CS	Robotics		
PE 854 CS	Secure Software Engineering		
PE 855 CS	Natural Language Processing		
PE 856 CS	Intellectual Property Rights		