

FACULTY OF ENGINEERING
Scheme of Instruction & Examination

Four Year Degree Programme

In

CSE (AI&ML)

(With effect from the academic year 2020-2021)

As approved in the faculty meeting held on 13.9.2021



Issued by

Dean, Faculty of Engineering
Osmania University, Hyderabad
2021

SCHEME OF INSTRUCTION & EXAMINATION
B.E. - I SEMESTER
CSE (AI&ML)

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 Courses										
Three Week Induction Programme										
1	MC 801 PO	Indian Constitution	2	0	-	2	30	70	-	-
2	BS 202 PH	Physics	3	1	-	4	30	70	3	4
3	BS 201 MT	Mathematics-I	3	1	-	4	30	70	3	4
4	ES 301 EE	Basic Electrical Engineering	3	1	-	4	30	70	3	4
Practical/ Laboratory Courses										
5	BS 251 PH	Physics Lab	-	-	3	3	25	50	3	1.5
6	ES 354 EE	Basic Electrical Engineering Lab	-	-	2	2	25	50	3	1
7	ES 353 CE	Engineering Graphics	-	-	3x2	6	50	50	3	3
Total			11	03	11	25	220	430		17.5

SCHEME OF INSTRUCTION & EXAMINATION
B.E. - II SEMESTER
CSE (AI&ML)

S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		
			L	T	P	Contact Hrs/Wk	CIE	SEE	Credits
Theory Courses									
1	MC 802 CE	Environmental Sciences	2	-	-	2	30	70	-
2	MC 803 PY	Essence of Indian Traditional Knowledge	2	-	-	2	30	70	-
3	HS 101 EG	English	2	-	-	2	30	70	2
4	BS 203 MT	Mathematics-II	3	1	-	4	30	70	4
5	BS 204 CH	Chemistry	3	1	-	4	30	70	4
6	ES 302 CS	Programming for Problem Solving	3	-	-	3	30	70	3
Practical/ Laboratory Courses									
7	HS 151EG	English Lab			2	2	25	50	1
8	BS 252CH	Chemistry Lab			3	3	25	50	1.5
9	ES 351 CS	Programming for Problem Solving Lab			2	2	25	50	1
10	ES 352ME	Workshop Practice	-	-	2x3	6	50	50	3
Total			16	3	11	30	305	410	19.5

SCHEME OF INSTRUCTION & EXAMINATION
B.E. - III SEMESTER
CSE (AI&ML)

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	BS204MT	Probability Theory and Statistics	3	-	-	3	30	70	3	3
2	HS105CSM	Finance and Accounting	3	-	-	3	30	70	3	3
3	PC301CSM	Data Structures and Algorithms	3	-	-	3	30	70	3	3
4	ES302EC	Digital Electronics	3	-	-	3	30	70	3	3
5	ES303CSM	Python Programming	3	-	-	3	30	70	3	3
6	PC304CSM	Automata Languages and Computation	3	-	-	3	30	70	3	3
7	*MC306HS	Gender Sensitization	3	-	-	3	30	70	3	0
Practical/ Laboratory Courses										
8	PC 351 CSM	Data Structures and Algorithms Lab	-	-	2	2	25	50	3	1
9	PC 352 CSM	Python Programming Lab	-	-	2	2	25	50	3	1
			21	0	4	25	260	590	-	20

SCHEME OF INSTRUCTION & EXAMINATION
B.E. - IV SEMESTER
CSE (AI&ML)

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	HS104EG	Effective Technical Communication in English	3	-	-	3	30	70	3	3
2	PC401CSM	Design and Analysis of Algorithms	3	-	-	3	30	70	3	3
3	PC402CSM	Database Management Systems	3	-	-	3	30	70	3	3
4	PC403CSM	Software Engineering	3	-	-	3	30	70	3	3
5	PC404CSM	Introduction to Machine Learning	3	1	-	4	30	70	3	4
6	PC405CSM	Java Programming	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
7	PC451CSM	Database Management Systems Lab	-	-	2	2	25	50	3	1
8	PC452CSM	Machine Learning Lab	-	-	2	2	25	50	3	1
9	PC453CSM	Java Programming Lab	-	-	2	2	25	50	3	1
			18	1	6	25	255	570	-	22

SCHEME OF INSTRUCTION & EXAMINATION
B.E. - V SEMESTER
CSE (AI&ML)

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	ES501EC	Computer Organization and Architecture	3	-	-	3	30	70	3	3
2	PC502CSM	Introduction to Artificial Intelligence	3	1	-	4	30	70	3	4
3	PC503CSM	Operating Systems	3	-	-	3	30	70	3	3
4	PC504CSM	Web and Internet Technologies	3	-	-	3	30	70	3	3
5	PE-I	Professional Elective-I	3	-	-	3	30	70	3	3
6	PE-II	Professional Elective-II	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
7	PC551CSM	Artificial Intelligence Lab	-	-	2	2	25	50	3	1
8	PC552CSM	Operating Systems Lab	-	-	2	2	25	50	3	1
9	PW533CSM	Mini Project	-	-	2	2	25	50	3	1
			18	1	6	25	255	570	-	22

SCHEME OF INSTRUCTION & EXAMINATION
B.E. - VI SEMESTER
CSE (AI&ML)

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	PC601CSM	Deep Learning Techniques	3	-	-	3	30	70	3	3
2	PC602CSM	Computer Networks	3	-	-	3	30	70	3	3
3	PC603CSM	Advanced Machine Learning	3	1	-	4	30	70	3	4
4	PE-III	Professional Elective-III	3	-	-	3	30	70	3	3
5	PE-IV	Professional Elective-IV	3	-	-	3	30	70	3	3
6	OE-I	Open Elective- I	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
7	PC651CSM	Deep Learning Techniques Lab	-	-	2	2	25	50	3	1
8	PC652CSM	Computer Networks Lab	-	-	2	2	25	50	3	1
9	PC653CSM	Advanced Machine Learning Lab	-	-	2	2	25	50	3	1
10	PC671CSM	Summer Internship(To be evaluated during VII Semester)	-	-	-	-	-	-	-	-
			18	1	6	25	255	570	-	22

SCHEME OF INSTRUCTION & EXAMINATION
B.E. - VII SEMESTER
CSE (AI&ML)

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	PC701CSM	Cyber Security and Digital Forensics	3	-	-	3	30	70	3	3
2	PE-V	Professional Elective- V	3	-	-	3	30	70	3	3
3	OE-II	Open Elective- II	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
4	PC751CSM	Cyber Security and Digital Forensics Lab	-	-	2	2	25	50	2	1
5	PC752CSM	Technical Seminar	-	-	4	4	25	50	2	2
6	PW751CSM	PROJECT WORK- I	-	-	4	4	50	-	-	2
7	SI752CSM	Summer Internship(To be completed during VI Semester)	-	-	-	-	50	-	-	2
			9	0	10	19	240	310	-	16

SCHEME OF INSTRUCTION & EXAMINATION
B.E. - VIII SEMESTER
CSE (AI&ML)

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	HS106CSM	Management Science	3	-	-	3	30	70	3	3
2	OE-III	Open Elective- III	3	-	-	3	30	70	3	3
3	PE-VI	Professional Elective- VI	3	-	-	3	30	70	3	3
4	PW861CSM	PROJECT WORK- II	-	-	16	16	50	100	3	8
			9	0	16	25	140	310	-	17