

Curriculum

SEMESTER 1

S.No	Course Code	Course Title	Contact Hours	L	T	P	C	M
THEORY								
1.	UEAM101	Linear Algebra and Calculus	4	3	1	0	4	100
2.	UEAM102	Communicative English	2	2	0	0	2	100
3.	UEAM103	Digital Logic System Design	3	3	0	0	3	100
4.	UEAM104	Problem Solving and Programming using C	3	3	0	0	3	100
5.	UEAM105	Computer Architectures	3	3	0	0	3	100
6.	UEAM106	Ethics and Human Values	3	3	0	0	3	100
PRACTICAL								
7.	UEAM1PA	Communicative Skills and Language Laboratory	2	0	0	2	1	100
8.	UEAM1PB	Problem Solving using C Laboratory	4	0	0	4	2	100
TOTAL			24	17	1	6	21	

SEMESTER 2

S.No	Course Code	Course Title	Contact Hours	L	T	P	C	M
THEORY								
1.	UEAM201	Probability and Statistics	4	3	1	0	4	100
2.	UEAM203	Data Structures	3	3	0	0	3	100
3.	UEAM204	Object Oriented Programming using C++	3	3	0	0	3	100
4.	UEAM205	Data Base Management Systems	3	3	0	0	3	100
5.	UEAM206	Environmental Studies	3	3	0	0	3	100
PRACTICAL								
6.	UEAM2PA	Data Structures Lab	4	0	0	4	2	100
7.	UEAM2PB	Data Base Management Systems Laboratory	4	0	0	4	2	100
8.	UEAM2PC	Object Oriented Programming using C++ Laboratory	4	0	0	4	2	100
TOTAL			28	15	1	12	22	

SEMESTER 3

S.No	Course Code	Course Title	Contact Hours	L	T	P	C	M
THEORY								
1.	UEAM301	Operating Systems	3	3	0	0	3	100

2.	UEAM302	Introduction to Artificial Intelligence	3	3	0	0	3	100
3.	UEAM303	Statistics for ML	4	3	1	0	4	100
4.	UEAM304	Python Programming	3	3	0	0	3	100
5.	UEAM305	Data Mining	3	3	0	0	3	100
6.	UEAM306	Computer Networks	3	3	0	0	3	100
PRACTICAL								
7.	UEAM3PA	Operating Systems and Networks Laboratory	4	0	0	4	2	100
8.	UEAM3PB	Data Mining using Python Laboratory	4	0	0	4	2	100
TOTAL			27	18	1	8	23	

SEMESTER 4

S.No	Course Code	Course Title	Contact Hours	L	T	P	C	M
THEORY								
1.	UEAM401	Web Technology	3	2	1	0	3	100
2.	UEAM402	Artificial Neural Networks	3	3	0	0	3	100
3.	UEAM403	Optimization Techniques	3	2	1	0	3	100
4.	UEAM404	Design and Analysis of Algorithms	3	3	0	0	3	100
5.	UEAM405	Cloud Computing	3	3	0	0	3	100

6.	UEAM406	PEC-1	3	3	0	0	3	100
PRACTICAL								
7.	UEAM4PA	Web Technology Laboratory	4	0	0	4	2	100
8.	UEAM4PB	Neural Networks Laboratory	4	0	0	4	2	100
TOTAL			26	16	2	8	22	

SEMESTER 5

S.No	Course Code	Course Title	Contact Hours	L	T	P	C	M
THEORY								
1.	UEAM501	R Programming	3	3	0	0	3	100
2.	UEAM502	Mobile Application Development	3	3	0	0	3	100
3.	UEAM503	Machine Learning: Principles and Practices	3	3	0	0	3	100
4.	UEAM504	PEC-2	3	3	0	0	3	100
5.	UEAM505	PEC-3	3	3	0	0	3	100
PRACTICAL								
6.	UEAM5PA	Machine Learning using R- Laboratory	4	0	0	4	2	100
7.	UEAM5PB	Project Phase-I	6	0	0	6	6	100
TOTAL			25	15	0	10	23	

SEMESTER 6

S.No	Course Code	Course Title	Contact Hours	L	T	P	C	M
THEORY								
1.	UEAM601	Pattern Recognition	4	3	1	0	4	100
2.		PEC-4	3	3	0	0	3	100
3.		PEC-5	3	3	0	0	3	100
4.	UEAM6PX	Project Phase-II	12	0	0	12	12	100
TOTAL			22	9	1	12	22	

LIST OF ELECTIVE COURSES

S.No	Course Code	Course Title	Contact Hours	L	T	P	C	M
PROFESSIONAL ELECTIVE COURSE-1								
1.	UEAM406	Cyber Security	3	3	0	0	3	100
2	UEAM407	Soft Computing	3	3	0	0	3	100
3	UEAM408	Internet of Things	3	3	0	0	3	100
PROFESSIONAL ELECTIVE COURSE-2 & 3								
1	UEAM506	Natural Language Processing	3	3	0	0	3	100
2	UEAM507	Data Visualization	3	3	0	0	3	100
3	UEAM508	Text Analytics	3	3	0	0	3	100
4	UEAM509	AR/VR	3	3	0	0	3	100
PROFESSIONAL ELECTIVE COURSE-4 & 5								

1	UEAM604	Deep Learning	3	3	0	0	3	100
2	UEAM605	Business Intelligence	3	3	0	0	3	100
3	UEAM606	Human Machine Interaction	3	3	0	0	3	100
4	UEAM607	Cyber Threat Intelligence	3	3	0	0	3	100
5	UEAM608	Reinforcement Learning	3	3	0	0	3	100

Total Credits: 123

Minor degree: Industry 4.0

Sl.no	Course Name	Credits
1	Industrial Internet of Things	3
2	Digital Communication	3
3	Introduction to Industry 4.0	3
4	Sensors and Actuators	3
5	PLC and Microcontroller	3
6	Mini Project	3

Total Credits: 18