BE (COE-MBA) 2017 Scheme

SEMESTER-I

• •	COURSE NO.	TITLE	L	Т	Р	CR
	UMA003	MATHEMATICS – I	3	1	0	3.5
	UTA007	COMPUTER PROGRAMMING- 1*	3	0	2	4.0
	UCB008	APPLIED CHEMISTRY	3	1	2	4.5
	UES001	ELECTRONIC ENGINEERING	3	1	2	4.5
	UES009	MECHANICS	2	1	2	2.5
5	UTA011	ENGINEERING DESIGN PROJECT-1 (6 Self Effort Hours)	1	0	4	6.0
		TOTAL		31	•	25.0

SEMESTER-II

5. N.	COURSE NO.	TITLE	L	Т	Р	CR
1	UMA004	MATHEMATICS – II	3	1	0	3.5
2	UTA009	COMPUTER PROGRAMMING- II*	3	0	2	4.0
3	UPH004	APPLIED PHYSICS	3	1	2	4.5
4	UEE001	ELECTRICAL ENGINEERING	3	1	2	4.5
5	UHU003	PROFESSIONAL COMMUNICATION	2	0	2	3.0
6	UTA008	ENGINEERING DRAWING	2	4	0	4.0
		TOTAL		31		23.5

SEMESTER-III

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S. N.	COURSE NO.	TITLE	L	Т	Р	CR
1	UMA007	NUMERICAL ANALYSIS	3	1	2	4.5
2	UES012	ENGINEERING MATERIALS	3	1	2	4.5
		ENGINEERING DESIGN				
		PROJECT-II (5 Self Effort				
3	UTA011	Hours)	1	0	3	5.0
		DISCRETE MATHEMATICAL				
4		STRUCTURES	3	1	0	3.5
5		OPERATING SYSTEMS	3	0	2	4.0
6		COMPUTER NETWORKS	3	0	2	4.0
		ENERGY AND				
7	UEN002	ENVIRONMENT	3	0	0	3.0
		TOTAL		33		28.5

SEMESTER-IV

S. N.	COURSE NO.	TITLE	L	Т	Р	CR
1	UMA031	OPTIMIZATION TECHNIQUES	3	1	0	3.5
2	UES010	SOLIDS AND STRUCTURES	3	1	2	4.5
3	UES011	THERMO-FLUIDS	3	1	2	4.5
4	UTA002	MANUFACTURING PROCESSES	2	0	3	3.5
5		DATA STRUCTURES & ALGORITHMS (4 self effort hours)	3	0	2	6.0
6		INVENTIONS & INNOVATIONS IN COMPUTING	2	0	0	2.0
7		DATABASE MANAGEMENT SYSTEMS	3	0	2	4.0
		TOTAL		33		28.0

SUMMER SEMESTER AFTER SECOND YEAR

1	ADVANCED DATA STRUCTURES & ALGORITHMS	3	0	2	4.0
2	SOFTWARE ENGINEERING	3	0	2	4.0
3	THEORY OF COMPUTATION	3	1	0	3.5
	TOTAL	9	1	4	11.5

SEMESTER-V

S. N.	COURSE NO.	TITLE	L	Т	Р	CR
		COMPUTER				
1		ARCHITECTURE AND ORGANIZATION	3	0	2	4.0
2		ARTIFICIAL INTELLIGENCE	3	1	0	3.5
4		PROFESSIONAL PRACTICES	0	1	2	1.5
5		ELECTIVE I	3	0	2	4.0
6		MICROPROCESSOR BASED SYSTEMS DESIGN	3	0	2	4.0
7		EMBEDDED SYSTEMS DESIGN	3	0	2	4.0
8		CAPSTONE PROJECT* (STARTS) SEH 6	0	0	2	
		TOTAL		29		21.0

*The course would consist of talks by working professionals from industry,

government, academia & research organizations.

S. N.	COURSE NO.	TITLE		L	Т	Р	CR
1		IMAGE PROCESSING		3	0	2	4.0
2		COMPILER CONSTRUCTION		3	0	2	4.0
3		ELECTIVE II		3	0	2	4.0
4		ELECTIVE III		3	0	2	4.0
5		ELECTIVE IV		3	0	2	4.0
6		CAPSTONE PROJECT (CONTINUED) SEH-14		0	0	2	12.0
_		INNOVATION ENTREPRENEURSHIP	AND (5		0		
7		SELF EFFORT HOURS) HUMANITIES	FOR	1	0	2	4.5
8		ENGINEERS TOTAL		2	0 34	2	3.0 39.5

coordinator for approval.

Ist Semester of MBA program

S. N.	COURSE NO.	TITLE	L	Т	Р	CR	
1		PROJECT SEMESTER/ START-UP SEMESTER	-	-	-	20.0	
OR							
1		CAPSTONE PROJECT II SEH-20	0	0	4	12.0	
2		SOFTWARE PROJECT MANAGEMENT	3	0	2	4.0	
3		ETHICAL HACKING	3	0	2	4.0	

SEMESTER-VI

Design/ Fabrication/ Implementation work under the guidance of a faculty member. Prior to registration, a detailed plan of work should be submitted by the student to the course

SEMESTER-VII

SEMESTER-VIII

HIGH PERFORMANCE COMPUTING

ELECTIVE I	PARALLEL & DISTRIBUTED COMPUTING	3	0	2	4.0
ELECTIVE II	GPU COMPUTING	3	0	2	4.0
ELECTIVE III	CLOUD COMPUTING	3	0	2	4.0
ELECTIVE IV	SIMULATION & MODELLING	3	0	2	4.0

MACHINE LEARNING AND DATA ANALYTICS

ELECTIVE I	MACHINE LEARNING	3	0	2	4.0
ELECTIVE II	DATA ANALYTICS & VISUALIZATION	3	0	2	4.0
ELECTIVE III	NATURAL LANGUAGE PROCESSING	3	0	2	4.0
ELECTIVE IV	DEEP LEARNING	3	0	2	4.0

COMPUTER ANIMATION AND GAMING

ELECTIVE I	COMPUTER VISION	3	0	2	4.0
ELECTIVE II	3D MODELLING AND ANIMATION	3	0	2	4.0
ELECTIVE III	AUGMENTED AND VIRTUAL REALITY	3	0	2	4.0
ELECTIVE IV	GAME DESIGN AND DEVELOPMENT	3	0	2	4.0

INFORMATION AND CYBER SECURITY

ELECTIVE I	COMPUTER & NETWORK SECURITY	3	0	2	4.0
ELECTIVE II	SECURE CODING	3	0	2	4.0
ELECTIVE III	CYBER FORENSICS	3	0	2	4.0
ELECTIVE IV	ADVANCED COMPUTER NETWORKS	3	0	2	4.0

SOFTWARE ENGINEERING

ELECTIVE I	ENGINEERING SOFTWARE AS A SERVICE	3	0	2	4.0
ELECTIVE II	SOFTWARE METRICS AND QUALITY MANAGEMENT	3	0	2	4.0
ELECTIVE III	SOFTWARE VERIFICATION AND VALIDATION	3	0	2	4.0
ELECTIVE IV	ADVANCED TOPICS IN SOFTWARE ENGINEERING	3	0	2	4.0