(An Autonomous Institute)



## **Curriculum Structure**

#### For

**B. Tech. Information Technology** (Under Graduate Programme)

Academic Year 2018-2019

## Teaching and Evaluation scheme for

#### Second Year B. Tech. Programme in Information Technology Second Year (Semester-III)



Course Code	Course Name	H	Ir/Wee	ek	Credits	<b>Evaluation Scheme</b>			e	
		L	T	P		Component		Ma	rks	
							Max	Min	For Passing	
	D: .					ISE-I	10			
LUTEO201	Discrete	_	1			MSE	30		40	
UITE0301	Mathematical	3	1	-	4	ISE-II	10		40	
	Structures					ESE	50	20		
						ISE-I	10			
UITE0302	Applied Mathematics	3	1	_	4	MSE	30		40	
U11E0302	Applied Mathematics	3	1	_	4	ISE-II	10		40	
						ESE	50	20		
						ISE-I	10			
UITE0303	Data Communication	4	_	_	4	MSE	30		40	
011120303	and Networking	4	_	_	<b>"</b>	ISE-II	10		40	
						ESE	50	20		
						ISE-I	10			
UITE0304	Digital Systems and	3	_	_	3	MSE	30		40	
011L0304	Microprocessor	3				ISE-II	10		40	
						ESE	50	20		
						ISE-I	10			
UITE0305	Data Structures	3	_	_	3	MSE	30		40	
01120000	Bata Stractares					ISE-II	10			
						ESE	50	20		
UITE0331	Data Communication			2	1	ISE	50	20	40	
UIIEUSSI	and Networking Lab	-	-	2	1	ESE(POE)	50	20	40	
11/20222	Digital Systems and			2	1	ISE	50	20	40	
UITE0332	Microprocessor Lab	-	-	2	1	ESE(POE)	50	20	40	
IHTE0222	Data Structures Lab			4	2	ISE	50	20	40	
UITE0333	Data Structures Lab	-	-	4	2	ESE(POE)	50	20	40	
UITE0361	Environmental Studies	3	-	-	-	Audit Course-I	10	0	40	
	Total	19	2	8	22	Total con	tact ho	urs/We	ek 29	

## Teaching and Evaluation scheme for

#### Second Year B. Tech. Programme in Information Technology Second Year (Semester-IV)



Course Code	Course Name	H	r/We	ek	Credits	Eval	uation S	Schem	e			
		L	T	P		Component		Ma	rks			
							Max	Min	For Passing			
						ISE-I	10					
LUTEO 401	A set a see at a Tile a a see	2	1			MSE	30		40			
UITE0401	Automata Theory	3	1	-	4	ISE-II	10		40			
						ESE	50	20				
						ISE-I	10					
LUTEO402	C. C	2	1			MSE	30		40			
UITE0402	Software Engineering	3	1	-	4	ISE-II	10		40			
						ESE	50	20				
						ISE-I	10					
LUTE0402	Computer Networks	3			3	MSE	30		40			
UITE0403	Computer Networks	3	-	-	3	ISE-II	10		40			
						ESE	50	20				
						ISE-I	10					
UITE0404	Computer Organization	3	_		3	MSE	30		40			
011120404	and Architecture	3	_	-	_	-	3	ISE-II	10		40	
						ESE	50	20				
						ISE-I	10					
UITE0405	Object Oriented	3	_	_	3	MSE	30		40			
011120403	Programming	)	_	_	3	ISE-II	10		40			
						ESE	50	20				
LUTE0421	Object Oriented			2	1	ISE	50	20	40			
UITE0431	Programming Lab	-	-	2	1	1	1	1	ESE(POE)	50	20	40
UITE0432	Problem Solving using	1		2	2	ISE	50	20	40			
U11E0432	Computers	1	-	2	2	ESE(POE)	50	20	40			
UITE0433	Computer Networks Lab	_	_	2	1	ISE	50	20	40			
011E0433	Computer Networks Lab	_	_	2	1	ESE(POE)	50	20	40			
UITE0441	Mini Project – I	-	_	2	1	ISE	50	20	40			
U11E0441	wim Froject – I	_	_		1	ESE(POE)	50	20	40			
UITE0461	Soft skills	1	1	-	-	Audit Course-II	10	0	40			
	Total	17	3	8	22	Total con	tact hou	ırs/Wo	eek 29			

## Teaching and Evaluation scheme for

## Third Year B. Tech. Programme in Information Technology Third Year (Semester-V)



Course Code	Course Name	Hr	/We	eek	Credits	Eva	luation	Scheme	<u>,</u>
		L	T	P		Component		Mark	KS
							Max		in For assing
						ISE-I	10		
LUTEO501	Datah asa Enginessina	2			,	MSE	30		40
UITE0501	Database Engineering	3	-	-	3	ISE-II	10		40
						ESE	50	20	
						ISE-I	10		
UITE0502	Operating Systems	3	_		3	MSE	30		40
U11E0302	Operating Systems	3	-	-	3	ISE-II	10		40
						ESE	50	20	
						ISE-I	10		
UITE0503	Design and Analysis of Algorithms	3	1		4	MSE	30		40
U11E0303	Design and Analysis of Algorithms	3	1	-	-	ISE-II	10		40
						ESE	50	20	
						ISE-I	10		
UITE0504	Machina Lagraina	3	1		4	MSE	30		40
U11E0304	Machine Learning	3	1	-	-	ISE-II	10		40
						ESE	50	20	
	Professional Elective – I*					ISE-I	10		
LUTEO52*		3			3	MSE	30		40
UITE052*		3	-	-	3	ISE-II	10		40
						ESE	50	20	
LUTEO521	Application Development Tools – I	1	_	2	2	ISE	50	20	40
UITE0531	Lab	1	-	2	2	ESE(POE)	50	20	40
UITE0532	Database Engineering Lab	_	-	2	1	ISE	50	20	40
011E0332	Database Engineering Lab	-	-	2	1	ESE(POE)	50	20	40
UITE0533	Operating Systems Lab			2	1	ISE	50	20	40
011E0333	Operating Systems Lab	-	-	2	1	ESE(POE)	50	20	40
THE POS 44	M: D :			2	4	ISE	50	20	40
UITE0541	Mini Project – II	-	-	2	1	ESE(POE)	50	20	40
UITE0561	Professional Certification – I\$	-	-	2	-	Audit Course-III	10	00	40
	Total	16	2	10	22	Total con	 ntact ho	ırs/We	ek 28

#### **Professional Electives-I**

PE-1	Code
Course Name	
Cloud Computing	UITE0521
Soft Computing	UITE0522
Computer Graphics	UITE0523

## Teaching and Evaluation scheme for Third Year B. Tech. Program in Information Technology



#### Third Year (Semester-VI)

Course Code	Course Name	Hr	/W	eek	Credits	Evalu	ation Sch	neme		
		L	T	P		Component		Ma	arks	
							Max	Min	For Passing	
						ISE-I	10			
UITE0601	Cryptography and	3	1	_	4	MSE	30		40	
CIILOGOI	Network Security		1		•	ISE-II	10		40	
						ESE	50	20		
						ISE-I	10	4		
UITE0602	System Software	3	-	-	3	MSE ISE-II	30	-	40	
	-					ESE	10 50	20		
						ISE-I	10	20		
						MSE	30	1		
UITE0603	Distributed Computing	3	-	-	3	ISE-II	10		40	
						ESE	50	20		
						ISE-I	10			
X XXIII X 0 60 th						MSE	30		40	
UITE062*	Professional Elective – II*	3	-	-	3	ISE-II	10		40	
						ESE	50	20		
						ISE-I	10			
******	Open Elective – I #					MSE	30		40	
UOEL06##		3	-	-	3	ISE-II	10		40	
						ESE	50	20		
UITE0631	Application Development	2	_	2	3	ISE	50	20	40	
U11E0031	Tools – II Lab	2	-	2	3	ESE(POE)	50	20	<del>1</del> V	
UITE0632	Distributed Computing	_	_	2	1	ISE	50	20	40	
01120032	Lab			2	•	ESE(POE)	50	20	-10	
UITE063*	Professional Elective-II	_	_	2	1	ISE	50	20	40	
OTTEOUS	Lab	_		4	1	ESE(POE)	50	20	40	
LUTEO (41	Mini Ducines III			2	1	ISE	50	20	40	
UITE0641	Mini Project – III	-	-	2	1	ESE(POE)	50	20	40	
UITE0661	Professional Certification – II \$	-	-	2	-	Audit Course-IV	10	00	40	
	Total	17	1	10	22	Total conta	Total contact hours/Week: 28			

#### **Professional Electives-II**

PE-II Course Name	OE-1 Course Name
Unix Operating System (UITE0621)	FOSSEE ( UOEL0636)
Unix Operating System Lab ( UITE0633)	Web Designing ( UOEL0637)
Internet of Things (UITE0622)	
Internet of Things Lab. (UITE0634)	
Ad hoc Wireless Networks (UITE0623)	
Ad hoc Wireless Networks Lab (UITE0635)	

## Teaching and Evaluation scheme for

### Fourth Year B. Tech. Program in Information Technology



#### Final Year (Semester-VII)

Course Code	Course Name	Hı	:/W	eek	Credits	Eval	luation	Scheme		
		L	T	P		Component		Mar	ks	
							Max	Min F	n For Passing	
						ISE-I	10			
1117750701	D :	_				MSE	30		40	
UITE0701	Project Management	2	1	-	3	ISE-II	10		40	
						ESE	50	20		
						ISE-I	10			
LUTEOTO	M 1 7 1 1	2				MSE	30		40	
UITE0702	Mobile Technology	3	-	-	3	ISE-II	10		40	
						ESE	50	20		
						ISE-I	10			
I WEED OF ONLY	D C : 151 : W/h	_				MSE	30		40	
UITE072*	Professional Elective – III*	3	-	-	3	ISE-II	10		40	
						ESE	50	20		
						ISE-I	10			
		_				MSE	30		40	
UOEL07##	Open Elective – II#	3	-	-	3	ISE-II	10			
						ESE	50	20		
						ISE	50	20	40	
UITE0731	Mobile App Development Lab	2	-	2	2	ESE(POE)	50	20		
*************						ISE	50	20	40	
UITE0732	Web Technology – I Lab	2	-	2	3	ESE(POE)	50	20	40	
LUTE0722	Software Testing and Quality	1		2	2	ISE	50	20	40	
UITE0733	Assurance Lab	1	-	2	2	ESE(POE)	50	20	40	
LUTEO751	Duoiset Phase I			2		ISE	50	20	40	
UITE0751	Project Phase – I	-	-	2	1	ESE(POE)	50	20	40	
	Total	16	1	8	20	Total cor	tact ho	ırs/Wee	ek 25	

#### **Professional Electives-III**

PE-III Course Names	ОЕ-ІІ
High Performance Computing (UITE0721)	Ethical Hacking (UOEL0721)
Software Defined Network (UITE0722)	Software Systems (UOEL0722)
Digital Image Processing (UITE0723)	

# Teaching and Evaluation scheme for Fourth Year B. Tech. Program in Information Technology



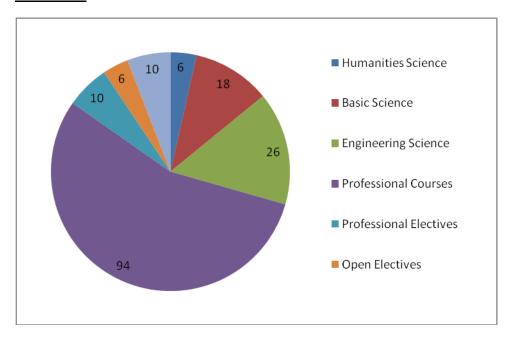
#### Final Year (Semester-VIII)

Course Code	Course Name	Н	Ir/We	ek		Credits	Evaluation Scheme								
		L	T	P			Component	Marks							
								Max	Min For	Passing					
							ISE-I	10							
LUTEOROI	Wah Tashualasu II	,			-	2	MSE	30		40					
UITE0801	Web Technology - II	2	-	-		2	ISE-II	10		40					
							ESE	50	20	1					
							ISE-I	10							
LUTEOGO		2	MSE	30		40									
UITE0802	Data Analytics	3	-	-		3	ISE-II	10		40					
							ESE	50	20	1					
LUTE0021	Wala Tarkaraharan III ah			2		1	ISE	50	20	40					
UITE0831	Web Technology – II Lab	-	-	2		1	ESE(POE)	50	20	40					
							ISE-I	75	60						
UITE0851	Project Phase- II	-	-	12		6	6	6	6	6	6	ISE-II	75	00	120
							ESE	150	60						
	Total	5	-	14		12	Total con	ntact ho	urs/Week	19					

#### **Proposed Course Credits Distribution**

Curriculum Component	credits	Percentage(%)
Humanities Science	6	3.53
Basic Science	18	10.59
Engineering Science	26	15.29
Professional Courses	94	55.29
Professional Electives	10	5.8
Open Electives	6	3.53
Project/Seminar/Training/ Internship	10	5.8
Total	170	100%

#### **Credit wise**



#### **Percentagewise**

