



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

PRIYADARSHINI COLLEGE OF ENGINEERING

(Recognised by A.I.C.T.E. New Delhi & Govt. of Maharashtra Affiliated to R.T.M. Nagpur University)

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AICTE ID No. 5435581; DTE CODE No. 4123; UNIVERSITY CODE No. 278

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AN AUTONOMOUS INSTITUTE



CURRICULUM

UNDER GRADUATE PROGRAMME

B.TECH. INFORMATION TECHNOLOGY

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

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SCHEME OF EXAMINATION
B. TECH. INFORMATION TECHNOLOGY

Semester wise Credit distribution structure for Four Year B.Tech Program

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	08	08	-	-	-	-	-	-	16
Engineering Science Course		08	06	-	-	-	-	-	-	14
Programme Core Course (PCC)	Program Courses	-	02	08	12	12	10	10	-	54
Programme Elective Course (PEC)		-	-	-	-	04	08	03	06	21
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	-	-	02	02	04	02	03	-	13
Open Elective(OE) Other than a particular program		-	-	03	02	02	-	-	-	07
Vocational and Skill Enhancement Course(VSEC)	Skill Courses	02	02	02	-	-	02	-	-	08
Ability Enhancement Course (AEC-01, AEC-02)	Humanities Social Science and Management (HSSM)	02	-	02	-	-	-	-	-	04
Entrepreneurship/Economics/Management Courses)		-	-	02	02	-	-	-	-	04
Indian Knowledge System(IKS)		-	02	-	-	-	-	-	-	02
Value Education Course(VEC)		-	-	02	02	-	-	-	-	04
Research Methodology	Experiential Learning Courses	-	-	-	-	-	-	02	-	02
Comm. Engg. Project (CEP)/Field Project(FP)		-	-	01	-	-	-	-	-	01
Project		-	-	-	-	-	-	04	-	04
Internship/OJT		-	-	-	-	-	-	-	12	12
Co-curricular(CC)	Liberal Learning Courses	02	02	-	-	-	-	-	-	04
Total Credits		22	22	22	20	22	22	22	18	170

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FIRST SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UFY1B1T	BSC	ASH	Integral Vector Calculus & statistics	3	1	0	4	40	60	-	-	100
2	24UFY1B2T	BSC	ASH	Engineering Physics	3	0	0	3	40	60	-	-	100
3	24UFY1B2P	BSC	ASH	Lab: Engineering Physics	0	0	2	1	-	-	25	25	50
4	24UFY1C3T	ESC	ET	Digital Circuits & Logic Design	3	0	0	3	40	60	-	-	100
5	24UFY1C3P	ESC	ET	Lab: Digital Circuits & Logic Design	0	0	2	1	-	-	25	25	50
6	24UFY1B4T	ESC	ME	Computer Aided Graphics	1	0	0	1	20	30	-	-	50
7	24UFY1B4P	ESC	ME	Lab: Computer Aided Graphics	0	0	2	1	-	-	25	25	50
8	24UFY123T	PCC	IT	Basic of Computation	2	0	0	2	20	30	-	-	50
9	24UFY1B6T	AEC	ASH	Communication Skill	1	0	0	1	20	30	-	-	50
10	24UFY1B6P	AEC	ASH	Lab: Communication Skill	0	0	2	1	-	-	25	25	50
11	24UFY1A7P	SEC1	ASH	Skill Enhancement in Analytical Techniques	0	1	2	2	-	-	25	25	50
12	24UFY111P	CC1	ASH	Liberal Learning Course:Yoga and Meditation	0	1	2	2	-	-	50	-	50
	24UFY112P			Liberal Learning Course:Physical Education (Sports)									
	24UFY113P			Liberal Learning Course:Music									
	24UFY114P			Liberal Learning Course: National Service Scheme (NSS)									
				Total	13	3	12	22	180	270	175	125	750

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SECOND SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UFY2A1T	BSC	ASH	Basic calculus & differential equations	3	1	0	4	40	60	-	-	100
2	24UFY2A2T	BSC	ASH	Engineering Chemistry	3	0	0	3	40	60	-	-	100
3	24UFY2A2P	BSC	ASH	Lab: Engineering Chemistry	0	0	2	1	-	-	25	25	50
4	24UFY2A3T	ESC	CT	Programming for Problem Solving	3	0	0	3	40	60	-	-	100
5	24UFY2A3P	ESC	CT	Lab: Programming for Problem Solving	0	0	2	1	-	-	25	25	50
6	24UFY2A4T	ESC	EE	Basics of Electrical & Electronics Engineering	3	0	0	3	40	60	-	-	100
7	24UFY2A4P	ESC	EE	Lab: Basics of Electrical& Electronics Engineering	0	0	2	1	-	-	25	25	50
8	24UFY2A5T	IKS	ASH	Indian Traditional knowledge	2	0	0	2	20	30	-	-	50
9	24UFY2A6P	SEC2	ASH	Skill Enhancement in Instrumental Techniques	0	1	2	2	-	-	25	25	50
10	24UFY211P	CC2	ASH	Liberal Learning Course: Creative Arts	0	1	2	2	-	-	50	-	50
	24UFY212P			Liberal Learning Course: Professional Skills									
	24UFY213P			Liberal Learning Course: Photography & Film Making									
	24UFY214P			Liberal Learning Course: Foreign Language (German or French)									
				TOTAL	14	3	10	22	180	270	150	100	700

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THIRD SEMESTER

Sr.No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UIT301T	PCC	IT	Data Structures	3	0	0	3	40	60	-	-	100
2	24UIT301P	PCC	IT	Lab: Data Structures	0	0	2	1	-	-	25	25	50
3	24UIT302T	PCC	IT	Computer Architecture	2	0	0	2	20	30	-	-	50
4	24UIT303P	PCC	IT	Lab: Web Technology	0	1	2	2	-	-	25	25	50
5	24UBS304T	MDM	ASH	Multidisciplinary Minor:01	2	0	0	2	20	30	-	-	50
6	24UOE3XXT	OE	IT	Open Elective :01	3	0	0	3	40	60	-	-	100
7	24UIT307P	VSEC	IT	Lab: Foundation Course in Python	0	0	4	2	-	-	25	25	50
8	24UBS305T	AEC-02	ASH	Professional Communication	2	0	0	2	20	30	-	-	50
9	24UBS306T	EMC	ASH	Digital Economy and Management	2	0	0	2	20	30	-	-	50
10	24UBS308T	VEC	ASH	Environmental Science	2	0	0	2	20	30	-	-	50
11	24UIT309P	CEP/FP	IT	Comm Engineering Project/ Field Project	0	0	2	1	-	-	25	25	50
				Total	16	1	10	22	180	270	100	100	650

Open Elective : 01	
Course Code	Course Name
24UOE349T	Software Engineering
24UOE350T	Computer Graphics
Multidisciplinary Minor:01	
Course Code	Course Name
24UBS304T	Probability Theory and Statistics

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FOURTH SEMESTER

Sr.No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UIT401T	PCC	IT	Object Oriented Programming using Java	3	1	0	4	40	60	-	-	100
2	24UIT401P	PCC	IT	Lab : Object Oriented Programming using Java	0	0	2	1	-	-	25	25	50
3	24UIT402T	PCC	IT	Software Engineering and Project Management	3	0	0	3	40	60	-	-	100
4	24UIT402P	PCC	IT	Lab : Software Engineering and Project Management	0	0	2	1	-	-	25	25	50
5	24UIT403T	PCC	IT	Computer Networks	3	0	0	3	40	60	-	-	100
6	24UBS404T/ 24UII406T/ 24UET406T	MDM	ASH/ IIOT/ ETC	Multidisciplinary Minor:02	2	0	0	2	20	30	-	-	50
7	24UOE4XXT	OE	IT	Open Elective:02	2	0	0	2	20	30	-	-	50
8	24UBS408T	EMC	ASH	Entrepreneurship Development and Startups	2	0	0	2	20	30	-	-	50
9	24UBS411T	VEC	ASH	Universal Human Values	2	0	0	2	20	30	-	-	50
				Total	17	1	4	20	200	300	50	50	600

Open Elective : 02	
Course Code	Course Name
24UOE449T	Software Testing And Quality Assurance
24UOE450T	Game Architecture and Programming

Multidisciplinary Minor:02	
Course Code	Course Name
24UBS404T	Fundamentals for Statistics and Analytics
24UII406T	Fundamentals of IoT and Its Applications
24UET406T	Data Communication Systems

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FIFTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UIT501T	PCC	IT	Artificial Intelligence	3	0	0	3	40	60	-	-	100
2	25UIT501P	PCC	IT	Lab : Artificial Intelligence	0	0	2	1	-	-	25	25	50
3	25UIT502T	PCC	IT	Design and Analysis of Algorithms	3	0	0	3	40	60	-	-	100
4	25UIT502P	PCC	IT	Lab : Design and Analysis of Algorithms	0	0	2	1	-	-	25	25	50
5	25UIT503T	PCC	IT	Database Management Systems	3	0	0	3	40	60	-	-	100
6	25UIT503P	PCC	IT	Lab : Database Management Systems	0	0	2	1	-	-	25	25	50
7	25UIT5XXT	PEC	IT	Program Elective Course :01	3	0	0	3	40	60	-	-	100
8	25UIT5XXP	PEC	IT	Lab : Program Elective Course:01	0	0	2	1	-	-	25	25	50
9	25UAI507T/ 25UII508T/ 25UET504T	MDM	AI&DS /IIOT/ ETC	Multidisciplinary Minor:03	3	0	0	3	40	60	-	-	100
10	25UAI507P/ 25UII508P/ 25UET504P	MDM	AI&DS/ IIOT/ ETC	Lab : Multidisciplinary Minor:03	0	0	2	1	-	-	25	25	50
11	25UOE5XXT	OE	IT	Open Elective :03	2	0	0	2	20	30	-	-	50
				Total	17	0	10	22	220	330	125	125	800

Open Elective:03		
S.N.	Course Code	Course Name
1	25UOE548T	Introduction to Agile Framework
2	25UOE549T	Introduction to Virtual Reality

Program Elective Course:01		
S.N.	Course Code	Course Name
1	25UIT521T	Gaming Development and Design
2	25UIT521P	Lab: Gaming Development and Design
3	25UIT522T	Blockchain Technology
4	25UIT522P	Lab: Blockchain Technology
5	25UIT523T	Agile Framework
6	25UIT523P	Lab: Agile Framework

Multidisciplinary Minor :03		
S.N.	Course Code	Course Name
1	25UAI507T	Data Exploration and Visualization
2	25UAI507P	Lab: Data Exploration and Visualization
3	25UII508T	IoT Data Acquisition and Platforms
4	25UII508P	Lab: IoT Data Acquisition and Platforms
5	25UET504T	Microcontroller and Embedded Systems
6	25UET504P	Lab: Microcontroller and Embedded Systems

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SIXTH SEMESTER

Sr.No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UIT601T	PCC	IT	Operating Systems	3	0	0	3	40	60	-	-	100
2	25UIT602T	PCC	IT	Theory of Computation	3	0	0	3	40	60	-	-	100
3	25UIT603T	PCC	IT	Cloud Computing	3	0	0	3	40	60	-	-	100
4	25UIT603P	PCC	IT	Lab: Cloud Computing	0	0	2	1	-	-	25	25	50
5	25UIT6XXT	PEC	IT	Program Elective Course:02	3	0	0	3	40	60	-	-	100
6	25UIT6XXP	PEC	IT	Lab: Program Elective Course:02	0	0	2	1	-	-	25	25	50
7	25UIT6XXT	PEC	IT	Program Elective Course:03	3	0	0	3	40	60	-	-	100
8	25UIT6XXP	PEC	IT	Lab: Program Elective Course-03	0	0	2	1	-	-	25	25	50
9	25UCS606P	MDM	CSE	Lab: Multidisciplinary Minor :04	0	0	4	2	-	-	100	-	100
10	25UIT605T	VSEC	IT	Software Tools	2	0	0	2	20	30	-	-	50
				Total	17	0	10	22	220	330	175	75	800

Program Elective Course :02		
S.N.	Course Code	Course Name
1	25UIT621T	Data Warehousing and Mining
2	25UIT621P	Lab : Data Warehousing and Mining
3	25UIT622T	Cyber Security
4	25UIT622P	Lab : Cyber Security
5	25UIT623T	Software Testing
6	25UIT623P	Lab : Software Testing

Program Elective Course:03		
S.N.	Course Code	Course Name
1	25UIT631T	Global Information Tracker
2	25UIT631P	Lab : Global Information Tracker
3	25UIT632T	Machine Learning
4	25UIT632P	Lab : Machine Learning
5	25UIT633T	Human Computer Interaction
6	25UIT633P	Lab : Human Computer Interaction

Multidisciplinary Minor :04		
S.N.	Course Code	Course Name
1	25UCS606P	Employability Enhancement Skills


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SEVENTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UIT701T	PCC	IT	Cryptography and Network Security	3	1	0	4	40	60	-	-	100
2	26UIT701P	PCC	IT	Lab :Cryptography and Network Security	0	0	2	1	-	-	25	25	50
3	26UIT702T	PCC	IT	Data Science	3	0	0	3	40	60	-	-	100
4	26UIT702P	PCC	IT	Lab :Data Science	0	0	4	2	-	-	25	25	50
5	26UIT7XXT	PEC	IT	Program Elective Course: 04	3	0	0	3	40	60	-	-	100
6	26UAI706T/ 26UII706T/ 26UET704T	MDM	AI&DS/ IIOT/ ETC	Multidisciplinary Minor: 05	3	0	0	3	40	60	-	-	100
7	26UIT703T	RM	IT	Research Methodology	2	0	0	2	20	30	-	-	50
8	26UIT704P	Project	IT	Project	0	0	8	4	-	-	50	50	100
				Total	14	1	16	22	180	270	100	100	650

Program Elective Course :04		
S.N.	Course Code	Course Name
1	26UIT721T	Data Engineering and Visualization
2	26UIT722T	Deep Learning
3	26UIT723T	Virtual Reality

Multidisciplinary Minor:05		
S.N.	Course Code	Course Name
1	26UAI706T	Business Analytics
2	26UII706T	Embedded Systems for IoT
3	26UET704T	Mobile Communication

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EIGHTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UIT8XXT	PEC	IT	Program Elective Course:05 (MOOC)*	3	0	0	3	40	60	-	-	100
2	26UIT86XT	PEC	IT	Program Elective Course-06 (MOOC)*	3	0	0	3	40	60	-	-	100
3	26UIT801P	Internship /OJT	IT	Internship	0	0	24	12	-	-	150	150	300
				Total	6	0	24	18	80	120	150	150	500

The list for MOOC Courses will be shared at the beginning of semester

*End Semester Examination will be conducted by Priyadarshini College of Engineering.

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Annexure-1
Basket of Multidisciplinary Minor Subjects

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1	III	24UBS304T	ASH	Probability Theory and Statistics	2
2	IV	24UBS404T	ASH	Fundamentals for Statistics and Analytics	2
		24UII406T	IIOT	Fundamentals of IoT and Its Applications	
		24UET406T	ETC	Data Communication System	
3	V	25UAI507T	AI&DS	Data Exploration and Visualization	4
		25UAI507P	AI&DS	Lab : Data Exploration and Visualization	
		25UII508T	IIOT	IoT Data Acquisition and Platforms	
		25UII508P	IIOT	Lab : IoT Data Acquisition and Platforms	
		25UET504T	ETC	Microcontroller and Embedded System	
		25UET504P	ETC	Lab : Microcontroller and Embedded System	
4	VI	25UCS606P	CSE	Employability Enhancement Skills	2
5	VII	26UAI706T	ASH	Business Analytics	2
		26UII706T	IIOT	Embedded Systems for IoT	
		26UET704T	ETC	Mobile Communication	
				Total	12

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Annexure-2
Basket of Open Elective Subjects

Semester III

Sr. No.	Course Code	Course Name OE:01
1.	24UOE325T	Software Engineering
2.	24UOE326T	Computer Graphics

Semester IV

Sr. No.	Course Code	Course Name OE:02
1.	24UOE425T	Software Testing and Quality Assurance
2.	24UOE426T	Game Architecture and Programming

Semester V

Sr. No.	Course Code	Course Name OE:03
1.	25UOE525T	Introduction to Agile Framework
2.	25UOE526T	Software Testing and Quality Assurance Introduction to Virtual Reality

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Annexure-3
List of Programme Elective Courses (PEC)

Semester-V

Sr. No	Course Code	Course Name PEC:01
1.	25UIT521T	Gaming Development and Design
2.	25UIT521P	Lab : Gaming Development and Design
3.	25UIT522T	Blockchain Technology
4.	25UIT522P	Lab : Blockchain Technology
5.	25UIT523T	Agile Framework
6.	25UIT523P	Lab : Agile Framework

Semester-VI

Sr. No	Course Code	Course Name PEC:02	Course Code	Course Name PEC:03
1.	25UIT621T	Data Warehousing and Mining	25UIT631T	Global Information Tracker
2.	25UIT621P	Lab : Data Warehousing and Mining	25UIT631P	Lab : Global Information Tracker
3.	25UIT622T	Cyber Security	25UIT632T	Machine Learning
4.	25UIT622P	Lab : Cyber Security	25UIT632P	Lab : Machine Learning
5.	25UIT623T	Software Testing	25UIT633T	Human Computer Interaction
6.	25UIT623P	Lab : Software Testing	25UIT633P	Lab : Human Computer Interaction

Semester-VII

Sr. No	Course Code	Course Name PEC:04
1.	26UIT721T	Data Engineering and Visualization
2.	26UIT722T	Deep Learning
3.	26UIT723T	Virtual Reality

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**B. Tech Honors
Big Data In Business**

Sr.No.	Sem	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UHBIT4T	PCC	IT	Big Data in Marketing and Finance	3	0	0	3	40	60	-	-	100
2	IV	24UHBIT4P	PCC	IT	Lab : Big Data in Marketing and Finance	0	0	2	1	-	-	25	25	50
3	V	25UHBIT5T	PCC	IT	AIML for Business Intelligence	3	0	0	3	40	60	-	-	100
4	V	25UHBIT5P	PCC	IT	Lab : AIML for Business Intelligence	0	0	2	1	-	-	25	25	50
5	VI	25UHBIT6T	PCC	IT	Cyber Security in Business	3	0	0	3	40	60	-	-	100
6	VI	25UHBIT6P	PCC	IT	Lab : Cyber Security in Business	0	0	2	1	-	-	25	25	50
7	VII	26UHBIT7T	PCC	IT	ERP Integration for Market	3	0	0	3	40	60	-	-	100
8	VII	26UHBIT7P	Project	IT	Project	0	0	6	3	-	-	50	50	100
					Total	12	0	12	18	160	240	125	125	650

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Annexure-5
B. Tech. Double Minor (Multidisciplinary)
Python for Data Insights

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UDMIT4T	PCC	IT	Python for Beginners	3	0	0	3	40	60	-	-	100
2	IV	24UDMIT4P	PCC	IT	Lab : Python for Beginners	0	0	2	1	-	-	25	25	50
3	V	25UDMIT5T	PCC	IT	Data Structures and Algorithms (DSA) using Python	3	0	0	3	40	60	-	-	100
4	V	25UDMIT5P	PCC	IT	Lab : Data Structures and Algorithms (DSA) using Python	0	0	2	1	-	-	25	25	50
5	VI	25UDMIT6T	PCC	IT	Python for Data Science	3	0	0	3	0	0	-	-	100
6	VI	25UDMIT6P	PCC	IT	Lab : Python for Data Science	0	0	2	1	-	-	25	25	50
7	VII	26UDMIT7T	PCC	IT	Advance Python Programming	3	0	0	3	40	60	-	-	100
8	VII	26UDMIT7P	Project	IT	Project	0	0	6	3	-	-	50	50	100
					Total	12	0	12	18	160	240	125	125	650

BOS Chairman
Dr. P. S. Prasad

Dean Academics
Dr.(Mrs.) S. N. Rao

Principal
Dr. S. A. Dhale



SCHEME OF EXAMINATION
B. TECH. INFORMATION TECHNOLOGY

Exit Scheme

Certificate Course After B.Tech First year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UECCITT	PCC	IT	Computer Network Essentials	4	0	0	4	40	60	-	-	100
2	24UECCITP	PCC	IT	Lab : Skill Based	0	0	8	4	-	-	50	50	100
				Total	4	0	8	8	40	60	50	50	200

Diploma Course After B.Tech Second year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UEDCITT	PCC	IT	Modern Web Design and Development	4	0	0	4	40	60	-	-	100
2	25UEDCITP	Project	IT	Skill Based Project	0	0	8	4	-	-	50	50	100
				Total	4	0	8	8	40	60	50	50	200

B.Vocational Course After B.Tech Third Year (08 Credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UEBVITT	PCC	IT	MOOC/SWAYAM/NPTEL courses (12 week course)	4	0	0	4	40	60	-	-	100
2	26UEBVITP	Project	IT	Project and Internship	0	0	8	4	-	-	50	50	100
				Total	4	0	8	8	40	60	50	50	200

*Abbreviation: E: Exit Course, CC: Certificate Course, DC: Diploma Course, BV: B. Vocational

Prasad

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