



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. COMPUTER TECHNOLOGY

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025.

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

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SCHEME OF EXAMINATION
B. TECH. COMPUTER 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	11	12	10	11	--	54
Programme Elective Course (PEC)		--	--	--	--	04	08	02	06	20
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	--	--	03	02	04	02	03	--	14
Open Elective(OE) Other than a particular program		--	--	03	02	02	--	--	--	07
Vocational and Skill Enhancement Course(VSEC)	Skill Courses	02	02	--	01	--	02	--	--	07
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)		--	--	02	--	--	--	--	--	02
Project		--	--	--	--	--	--	04	--	04
Internship/OJT		--	--	--	--	--	--	--	12	12
Co-curricular(CC)	Liberal Learning Courses	02	02	--	--	--	--	--	--	04
Total Credits		22	22	20	22	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	10	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 Engg	3	0	0	3	40	60	--	--	100
7	24UFY2A4P	ESC	EE	Lab: Basics of Electrical& Electronics Engg	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	1	0	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	2	8	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	24UCT301T	PCC	CT	Problem Solving using Python	3	0	0	3	40	60	--	--	100
2	24UCT301P	PCC	CT	Lab : Problem Solving using Python	0	0	2	1	--	--	25	25	50
3	24UCT302T	PCC	CT	Computer Architecture and Fundamentals of Microprocessor	3	0	0	3	40	60	--	--	100
4	24UCT303P	PCC	CT	Lab : Computer Workshop	0	0	2	1	--	--	25	25	50
5	24UOE3XXT	OE	CT	Open Elective:01	3	0	0	3	40	60	--	--	100
6	24UBS306T	EMC	ASH	Digital Economy and Management	2	0	0	2	20	30	--	--	50
7	24UBS308T	VEC	ASH	Environmental Science	2	0	0	2	20	30	--	--	50
8	24UCT309P	FP/CP	CT	Field Project/Community Project	0	0	4	2	--	--	25	25	50
9	24UBS311T	MDM	ASH	Multidisciplinary Minor : 01	3	0	0	3	40	60	--	--	100
				Total	16	0	8	20	200	300	75	75	650

Open Elective: 01

S.N.	Course Code	Course Name
1	24UOE337T	Web Technology
2	24UOE338T	Object Oriented Programming
Multidisciplinary Minor : 01		
S.N.	Course Code	Course Name
1	24UBS311T	Mathematics for Computing

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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	24UCT401T	PCC	CT	Operating Systems	3	1	0	4	40	60	--	--	100
2	24UCT402T	PCC	CT	Data Structures and Program Design	3	1	0	4	40	60	--	--	100
3	24UCT402P	PCC	CT	Lab: Data Structures and Program Design	0	0	2	1	--	--	25	25	50
4	24UCT403P	PCC	CT	Lab: Software tools	0	0	2	1	--	--	25	25	50
5	24UCT404P	PCC	CT	Lab: Advanced Python Programming	0	0	2	1	--	--	25	25	50
6	24UCT405P	VSEC	CT	Lab: Web Design and Development	0	0	2	1	--	--	25	25	50
7	24UCT406T	VEC	CT	Social Ethics in IT	2	0	0	2	20	30	--	--	50
8	24UOE4XXT	OE	CT	Open Elective:02	2	0	0	2	20	30	--	--	50
9	24UBS407T	AEC	ASH	Professional Communication	2	0	0	2	20	30	--	--	50
10	24UBS408T	EMC	ASH	Entrepreneurship Development and Startup	2	0	0	2	20	30	--	--	50
11	24UBS405T/ 24UET406T /24UII406T	MDM	ASH/ ETC /IIOT	Multidisciplinary Minor :02	2	0	0	2	20	30	--	--	50
				Total	16	2	8	22	180	270	100	100	650

Open Elective:02		
S.N.	Course Code	Course Name
1	24UOE433T	Data Structures
2	24UOE434T	Computer Networks
Multidisciplinary Minor : 02		
1	24UBS405T	Statistical Foundations for Data Analytics
2	24UET406T	Data Communication Systems
3	24UII406T	Fundamentals of IoT & its Applications

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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	25UCT501T	PCC	CT	Design and Analysis of Algorithms	3	1	0	4	40	60	--	--	100
2	25UCT502T	PCC	CT	Database Management Systems	3	0	0	3	40	60	--	--	100
3	25UCT502P	PCC	CT	Lab: Database Management Systems	0	0	2	1	--	--	25	25	50
4	25UCT503T	PCC	CT	Object Oriented Programming Using Java	3	0	0	3	40	60	--	--	100
5	25UCT503P	PCC	CT	Lab: Object Oriented Programming Using Java	0	0	2	1	--	--	25	25	50
6	25UCT5XXT	PEC	CT	Program Elective Course :01	3	1	0	4	40	60	--	--	100
7	25UAI507T/ 25UET504T/ 25UII508T	MDM	AI&DS/ ETC/ IIOT	Multidisciplinary Minor :03	3	0	0	3	40	60	--	--	100
8	25UAI507P/ 25UET504P/ 25UII508P	MDM	AI&DS/ ETC/ IIOT	Lab: Multidisciplinary Minor :03	0	0	2	1	--	--	25	25	50
9	25UOE5XXT	OE	CT	Open Elective:03	2	0	0	2	20	30	--	--	50
				Total	17	2	6	22	220	330	75	75	700

Open Elective:03		
S.N.	Course Code	Course Name
1	25UOE536T	Data Visualization
2	25UOE537T	Fundamentals of Cloud Computing

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

Program Elective Course :01		
S.N.	Course Code	Course Name
1	25UCT521T	Ethical Hacking Systems
2	25UCT522T	Advanced Operating System
3	25UCT523T	Computer Graphics

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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	25UCT601T	PCC	CT	Theory of Computation	3	0	0	3	40	60	--	--	100
2	25UCT602T	PCC	CT	Computer Networks	3	0	0	3	40	60	--	--	100
3	25UCT603T	PCC	CT	Artificial Intelligence and Machine Learning	3	0	0	3	40	60	--	--	100
4	25UCT603P	PCC	CT	Lab: Artificial Intelligence and Machine Learning	0	0	2	1	--	--	25	25	50
5	25UCT6XXT	PEC	CT	Program Elective Course:02	3	0	0	3	40	60	--	--	100
6	25UCT6XXP	PEC	CT	Lab: Program Elective Course :02	0	0	2	1	--	--	25	25	50
7	25UCT6XXT	PEC	CT	Program Elective Course :03	3	0	0	3	40	60	--	--	100
8	25UCT6XXP	PEC	CT	Lab: Program Elective Course :03	0	0	2	1	--	--	25	25	50
9	25UCT604T	VSEC	CT	Software Engg & Project Management	2	0	0	2	20	30	--	--	50
10	25UCS606P	MDM	CSE	Lab: Multidisciplinary Minor :04	0	0	4	2	--	--	100	--	100
				Total	17	0	10	22	220	330	175	75	800

Program Elective Course : 02		
S.N.	Course Code	Course Name
1	25UCT621T	Advanced Java Programming
2	25UCT621P	Lab: Advanced Java Programming
3	25UCT622T	Introduction to Network Security
4	25UCT622P	Lab: Introduction to Network Security
5	25UCT623T	Cloud Computing
6	25UCT623P	Lab: Cloud Computing

Program Elective Course : 03		
S.N.	Course Code	Course Name
1	25UCT631T	Digital Forensics
2	25UCT631P	Lab: Digital Forensics
3	25UCT632T	Data Analytics and Visualization
4	25UCT632P	Lab: Data Analytics and Visualization
5	25UCT633T	Internet of Things
6	25UCT633P	Lab: Internet of Things

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

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SCHEME OF EXAMINATION
B. TECH. COMPUTER TECHNOLOGY

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	26UCT701T	PCC	CT	Data Warehousing and Data Mining	3	1	0	4	40	60	--	--	100
2	26UCT701P	PCC	CT	Lab : Data Warehousing and Data Mining	0	0	2	1	--	--	25	25	50
3	26UCT702T	PCC	CT	Compiler Design	3	1	0	4	40	60	--	--	100
4	26UCT7XXT	PEC	CT	Program Elective Course : 04	2	0	0	2	20	30	--	--	50
5	26UCT703T	RM	CT	Research Methodology	2	0	0	2	20	30	--	--	50
6	26UCT704P	Project	CT	Project	0	0	8	4	--	--	50	50	100
7	26UCT705P	PCC	CT	Lab :Advanced Softwares	0	0	4	2	--	--	25	25	50
8	26UAI706T/ 26UET704T/ 26UII706T	MDM	AI&DS /ETC /IIOT	Multidisciplinary Minor : 05	3	0	0	3	40	60	--	--	100
				Total	13	2	14	22	160	240	100	100	600

Program Elective Course :04		
S.N.	Course Code	Course Name
1	26UCT721T	TCP/IP
2	26UCT722T	Digital Image Processing
3	26UCT723T	High Performance Computing and Architecture

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

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SCHEME OF EXAMINATION
B. TECH. COMPUTER TECHNOLOGY

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	26UCT8XXT	PEC	CT	Program Elective Course :05 (MOOC)*	3	0	0	3	40	60	--	--	100
2	26UCT8XXT	PEC	CT	Program Elective Course :06 (MOOC)*	3	0	0	3	40	60	--	--	100
3	26UCT801P	Internship /OJT	CT	Project/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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SCHEME OF EXAMINATION
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Annexure-1
Basket of Multidisciplinary Minor Subjects

Sr. No.	Semester	Course Code	BOS/ Department	Course Name	Credits
1	III	24UBS311T	ASH/IOT/ ETC	Mathematics for Computing	03
2	IV	24UBS405T	ASH	Statistical Foundations for Data Analytics	02
		24UET406T	ETC	Data Communication Systems	
		24UII406T	IHOT	Fundamentals of IoT & its Applications	
3	V	25UAI507T	AI&DS	Data Exploration and Visualization	04
		25UET504T	ETC	Microcontroller & Embedded systems	
		25UII508T	IHOT	IoT Data Acquisition and Platforms	
4	VI	25UCS606P	CSE	Employability Enhancement Skills	04
5	VII	26UAI706T	AI&DS	Business Analytics	03
		26UET704T	ETC	Mobile Communication	
		26UII706T	IHOT	Embedded Systems for IoT	
Total					14

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Annexure-2
Basket of Open Elective Subjects

Semester III

Sr. No.	Course Code	Course Name OE:01
1.	24UOE339T	Web Technology
2.	24UOE340T	Object Oriented Programming

Semester IV

Sr. No.	Course Code	Course Name OE:02
1.	24UOE441T	Data Structures
2.	24UOE442T	Computer Networks

Semester V

Sr. No.	Course Code	Course Name OE:03
1.	25UOE538T	Data Visualization
2.	25UOE539T	Fundamentals of Cloud Computing

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Annexure-3
List of Programme Elective Courses (PEC)

Semester-V

Sr. No.	Course Code	Course Name PEC:01
1.	25UCT521T	Ethical Hacking Systems
2.	25UCT522T	Advanced Operating System
3.	25UCT523T	Computer Graphics

Semester-VI

Sr. No.	Course Code	PEC:02	Course Code	PEC:03
1.	25UCT621T	Advanced Java Programming	25UCT631T	Digital Forensics
2.	25UCT621P	Lab: Advanced Java Programming	25UCT631P	Lab: Digital Forensics
3.	25UCT622T	Introduction to Network Security	25UCT632T	Data Analytics and Visualization
4.	25UCT622P	Lab: Introduction to Network Security	25UCT632P	Lab: Data Analytics and Visualization
5.	25UCT623T	Cloud Computing	25UCT633T	Internet of Things
6.	25UCT623P	Lab: Cloud Computing	25UCT633P	Lab: Internet of Things

Semester-VII

Sr. No.	Course Code	PEC:04
1.	26UCT721T	TCP/IP
2.	26UCT722T	Digital Image Processing
3.	26UCT723T	High Performance Computing and Architecture

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B. TECH. COMPUTER TECHNOLOGY

Annexure-4
B. TECH HONORS IN DEEP LEARNING AND GENERATIVE AI

Sr. No.	Course Code	Course Category	BOS/ Dept	Semester	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	24UHSCT4T	PCC	CT	IV	Soft Computing	3	1	0	4	40	60	-	-	100
2	25UHSCT5T	PCC	CT	V	Deep Learning	3	0	0	3	40	60	-	-	100
3	25UHSCT5P	PCC	CT	V	Lab: Deep Learning)	0	0	2	1	-	-	25	25	50
4	25UHSCT6T	PCC	CT	VI	Essentials of Generative AI	3	0	0	3	40	60	-	-	100
5	25UHSCT6P	PCC	CT	VI	Lab: Essentials of Generative AI	0	0	2	1	-	-	25	25	50
6	26UHSCT7T	PCC	CT	VII	Advanced Generative AI	3	0	0	3	40	60	-	-	100
7	26UHSCT7P	Project	CT	VII	Lab: Dissertation	0	0	6	3	-	-	50	50	100
					Total	12	01	10	18	160	240	100	100	600

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Annexure-5
B. TECH DOUBLE MINOR (Multidisciplinary)
Full Stack Development

Sr. No.	Course Code	Course Category	BOS/ Dept	Sem	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	24UDMCT4T	PCC	CT	IV	Introduction to Web Development	3	0	0	3	40	60	-	-	100
2	24UDMCT4P	PCC	CT	IV	Lab: Web Development using HTML, CSS and JavaScript	0	0	2	1	-	-	25	25	50
3	25UDMCT5T	PCC	CT	V	Frontend Development with ReactJS	3	0	0	3	40	60	-	-	100
4	25UDMCT5P	PCC	CT	V	Lab: Frontend Development using ReactJS	0	0	2	1	-	-	25	25	50
5	25UDMCT6T	PCC	CT	VI	Backend Development with NodeJS, ExpressJS and MongoDB	3	0	0	3	40	60	-	-	100
6	25UDMCT6P	PCC	CT	VI	Lab: Backend Development using MongoDB, ExpressJS and API Integration	0	0	2	1	-	-	25	25	50
7	26UDMCT7T	PCC	CT	VII	Full Stack Development & Deployment	3	0	0	3	40	60	-	-	100
8	26UDMCT7P	Project	CT	VII	Project : (Full Stack Development)	0	0	6	3	-	-	50	50	100
					Total	12	00	12	18	160	240	125	125	650

BOS Chairman
Dr.(Mrs.) N. M. Thakre

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

Principal
Dr. S. A. Dhale



SCHEME OF EXAMINATION
B. TECH. COMPUTER 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	24UECCCTT	PCC	CT	Web Development	4	0	0	4	40	60	-	-	100
2	24UECCCTP	Project	CT	Mini-project	0	0	8	4	-	-	50	50	100
				Total	04	0	08	08	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	25UEDCCTT	PCC	CT	Computer Hardware & Networking	4	0	0	4	40	60	-	-	100
2	25UEDCCTP	Internship/ OJT	CT	Internship	0	0	8	4	-	-	50	50	100
				Total	04	0	08	08	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	26UEBVCTT	PCC	CT	Full Stack Development	4	0	0	4	40	60	-	-	100
2	26UEBVCTP	Project	CT	Project (Full Stack Development)	0	0	8	4	-	-	50	50	100
				Total	04	0	08	08	40	60	50	50	200

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

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