



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)

Near C.R.P.F. Campus, Hingna Road, Nagpur - 440 019 (Maharashtra) India

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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. CHEMICAL ENGINEERING

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025.

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

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SCHEME OF EXAMINATION
B. TECH. CHEMICAL ENGINEERING

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	09	10	-	--	--	--	--	--	19
Engineering Science Course		07	04	--	--	--	--	--	--	11
Programme Core Course (PCC)	Program Courses	--	02	9.5	09	12	12.5	11	00	56
Programme Elective Course (PEC)		--	--	--	--	03	06	02	06	17
Multidisciplinary Minor (MDM)	Multidisciplinary Courses		-	02	03	04	02	03	00	14
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(ICS)			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		--	--	--	--	--	--	00	12	12
Co-curricular(CC)	Liberal Learning Courses	02	02	--	--	--	--	--	-	04
Total Credits		22	22	20.5	22	21	22.5	22	18	170

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SCHEME OF EXAMINATION
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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	24UFY1A1T	BSC	ASH	Basic calculus & differential equations	3	0	0	3	40	60	--	--	100
2	24UFY1C2T	BSC	ASH	Applied Physics	2	0	0	2	20	30	--	--	50
3	24UFY1C2P	BSC	ASH	Lab: Applied Physics	0	0	2	1	--	--	25	25	50
4	24UFY1D3T	ESC	CV	Engineering Mechanics	3	0	0	3	40	60	--	--	100
5	24UFY1D3P	ESC	CV	Lab: Engineering Mechanics	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	24UFY1A5P	ESC	ME	Lab: Engineering Workshop	0	0	2	1	--	-	25	25	50
9	24UFY1B6T	AEC	ASH	Communication Skills	1	0	0	1	20	30	--	--	50
10	24UFY1B6P	AEC	ASH	Lab: Communication Skills	0	0	2	1	--	--	25	25	50
11	24UFY1A7P	SEC1	ASH	Skill Enhancement in Analytical Techniques	0	1	2	2	--	-	25	25	50
12	24UFY1A8T	BSC	ASH	Applied Chemistry	2	0	0	2	20	30	--	--	50
13	24UFY1A8P	BSC	ASH	Lab: Applied Chemistry	0	0	2	1	--	-	25	25	50
14	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)									
					12	2	16	22	160	240	225	175	800

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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.	24UFY2D1T	BSC	ASH	Advanced Calculus Fourier Series & Statistics	3	1	0	4	40	60	--	--	100
2.	24UFY2C2T	BSC	ASH	Material Science	2	0	0	2	20	30	--	--	50
3.	24UFY2C2P	BSC	ASH	Lab: Material Science	0	0	2	1	--	--	25	25	50
4.	24UFY2A8T	ESC	CSE	Applied Physical Chemistry	2	0	0	2	20	30	--	--	50
5.	24UFY2A8P	ESC	CSE	Lab: Applied Physical Chemistry	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.	24UFY225T	PCC	CHE	Introduction to Chemical Engineering	2	0	0	2	20	30	--	--	50
9.	24UFY2A5T	IKS	ASH	Indian Traditionalknowledge	2	0	0	2	20	30	--	--	50
10.	24UFY2A6P	SEC2	ASH	Skill Enhancement in Instrumental Techniques	0	1	2	2	--	--	25	25	50
11.	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	160	240	150	100	650

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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.	24UCH301T	PCC	BCE	Material and Energy Balance Computation	3	0	0	3	40	60	-	-	100
2.	24UCH302T	PCC	BCE	Particle and Fluid Particle Processing	2	0	0	2	20	30	-	-	50
3.	24UCH302P	PCC	BCE	Lab: Particle and Fluid Particle Processing	0	0	3	1.5	-	-	25	25	50
4.	24UCH303T	PCC	BCE	Chemical Engineering Thermodynamics	3	0	0	3	40	60	-	-	100
5.	24UOE3XXT	OE	BCE	Open Elective:01	3	0	0	3	40	60	-	-	100
6.	24UBS306T	EMC	ASH	Digital Economy & Management	2	0	0	2	20	30	-	-	50
7.	24UBS307T	VEC	ASH	Universal human Values	2	0	0	2	20	30	-	-	50
8.	24UCH308P	CEP/FP	BCE	Community/Field Project	0	0	4	2	-	-	50	-	50
9.	24UBS310T	MDM	ASH	Multidisciplinary Minor: 01	2	0	0	2	20	30	-	-	50
				Total	17	0	7	20.5	200	300	75	25	600

S.N.	Course Code	Open Elective: 01
1	24UOE328T	Conservation of Natural Resources
2	24UOE329T	Environmental Pollution and Control
3	24UOE330T	Engineering Biology

Multidisciplinary Minor: 01		
S.N.	Course Code	Course Name
1	24UBS310T	Numerical Methods in Chemical Engineering

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FOURTH SEMESTER

Sr. No	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UCH401T	PCC	BCE	Fluid Mechanics	3	0	0	3	40	60	-	-	100
2	24UCH401P	PCC	BCE	Lab: Fluid Mechanics	0	0	3	1.5	-	-	25	25	50
3	24UCH402T	PCC	BCE	Heat Transfer	3	0	0	3	40	60	-	-	100
4	24UCH402P	PCC	BCE	Lab: Heat Transfer	0	0	3	1.5	-	-	25	25	50
5	24UCH403P	VSEC	BCE	Lab: Software Skills (MATLAB)	0	0	4	2	-	-	25	25	50
6	24UBS403T/ 24UBT404T/ 24UCS406T	MDM	ASH/ BT/ CSE	Multidisciplinary Minor: 02	2	0	0	2	20	30	-	-	50
7	24UBS403P/ 24UBT404P/ 24UCS406P	MDM	ASH/ BT/ CSE	Lab: Multidisciplinary Minor: 02	0	0	2	1	-	-	25	25	50
8	24UOE4XXT	OE	BCE	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	24UBS409T	VEC	ASH	Professional Ethics for Engineers	2	0	0	2	20	30	-	-	50
				Total	16	0	12	22	180	270	100	100	650

Open Elective : 02		
S.N.	Course Code	Course Name
1	24UOE428T	Sustainable Development and Governance
2	24UOE429T	Energy Conservation and Recycling
3	24UOE430T	Green Technology

Multidisciplinary Minor: 02		
S.N.	Course Code	Course Name
1	24UBS403T	Inorganic Process Technology
2	24UBS403P	Lab : Inorganic Process Technology
3	24UBT404T	Industrial Biotechnology
4	24UBT404P	Lab : Industrial Biotechnology
5	24UCS406T	Programming in C & Modern C++
6	24UCS406P	Lab : Programming in C & Modern C++

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FIFTH SEMESTER

Sr. No	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UCH501T	PCC	BCE	Mass Transfer-I	3	0	0	3	40	60	-	-	100
2	25UCH502T	PCC	BCE	Chemical Reaction Engineering-I	3	0	0	3	40	60	-	-	100
3	25UCH502P	PCC	BCE	Lab: Chemical Reaction Engineering	0	0	3	1.5	-	-	25	25	50
4	25UCH503T	PCC	BCE	Plant Equipment Design	3	0	0	3.0	40	60	-	-	100
5	25UCH503P	PCC	BCE	Lab: Plant Equipment Design	0	0	3	1.5	-	-	25	25	50
6	25UCH5XXT	PEC	BCE	Program Elective Course :01	3	0	0	3	40	60	-	-	100
7	25UBS503T/ 25UBT504T/ 25UCS506T	MDM	ASH/ BT/CSE	Multidisciplinary Minor:03	3	0	0	3	40	60	-	-	100
8	25UBS503P/ 25UBT504P/ 25UCS506P	MDM	ASH/ BT/CSE	Lab: Multidisciplinary Minor:03	0	0	2	1	-	-	25	25	50
9	25UOE5XXT	OE	BCE	Open Elective: 03	2	0	0	2	20	30	-	-	50
				Total	17	0	8	21	220	330	75	75	700

Open Elective Course:03		
S.N.	Course Code	Course Name
1	25UOE528T	Climate Change and Carbon Management
2	25UOE529T	Intellectual Property and Innovation for Engineers
3	25UOE530T	Energy Audit

Program Elective Course:01		
S.N.	Course Code	Course Name
1	25UCH521T	Process Technology and Economics
2	25UCH522T	Chemical Process Synthesis and Design
3	25UCH523T	Statistical Design of Experiment

Multidisciplinary Minor:03		
S.N.	Course Code	Course Name
1	25UBS503T	Organic Process Technology
2	25UBS503P	Lab: Organic Process Technology
3	25UBT504T	Analytical Techniques for Bio-processes
4	25UBT504P	Lab: Analytical Techniques for Bio-processes
5	25UCS 506T	Programming in Python
6	25UCS 506P	Lab: Programming in Python

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SCHEME OF EXAMINATION
B. TECH. CHEMICAL ENGINEERING

SIXTH SEMESTER

Sr. No	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1.	25UCH601T	PCC	BCE	Chemical Reaction Engineering- II	3	0	0	3	40	60	-	-	100
2.	25UCH602T	PCC	BCE	Process Dynamics & Control	3	0	0	3	40	60	-	-	100
3.	25UCH602P	PCC	BCE	Lab: Process Dynamics & Control	0	0	3	1.5	-	-	25	25	50
4.	25UCH603T	PCC	BCE	Mass Transfer-II	3	0	0	3	40	60	-	-	100
5.	25UCH603P	PCC	BCE	Lab: Mass Transfer	0	0	4	2	-	-	25	25	50
6.	25UCH6XXT	PEC	BCE	Program Elective Course:02	3	0	0	3	40	60	-	-	100
7.	25UCH6XXT	PEC	BCE	Program Elective Course:03	3	0	0	3	40	60	-	-	100
8.	25UCH604P	MDM	BCE	Lab: Multidisciplinary Minor:04	0	0	4	2	-	-	100	-	100
9.	25UCH605P	VSEC	BCE	Lab: Hands on Training: Environmental Engineering	0	0	4	2	-	-	25	25	50
				Total	15	0	15	22.5	200	300	175	75	750

Program Elective Course:02		
S.N.	Course Code	Course Name
1.	25UCH621T	Polymer Science and Engineering
2.	25UCH622T	Process Intensification
3.	25UCH623T	Membrane Technology

Program Elective Course:03		
S.N.	Course Code	Course Name
1	25UCH631T	Environmental Science & Waste Management
2	25UCH632T	Optimization of Chemical Processes
3	25UCH633T	Chemical Hazards & Safety

Multidisciplinary Minor:04		
S.N.	Course Code	Course Name
1	25UCH604P	Employability Enhancement Skills

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SCHEME OF EXAMINATION
B. TECH. CHEMICAL ENGINEERING

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	26UCH701T	PCC	BCE	Transport Phenomena	3	1	0	4	40	60	-	-	100
2	26UCH702T	PCC	BCE	Process Modelling and Simulation	3	1	0	4	40	60	-	-	100
3	26UCH702P	PCC	BCE	Lab: Process Modelling and Simulation	0	0	3	1.5	-	-	25	25	50
4	26UCH703P	PCC	BCE	Lab: Chemical Process simulator (DWSIM)	0	0	3	1.5	-	-	25	25	50
5	26UCH7XXT	PEC	BCE	Program Elective Course : 04	2	0	0	2	20	30	-	-	50
6	26UBS706T/ 26UBT705T/ 26UCS707T	MDM	ASH// BT/CSE	Multidisciplinary Minor :05	3	0	0	3	40	60	-	-	100
7	26UCH704T	RM	BCE	Research Methodology	2	0	0	2	20	30	-	-	50
8	26UCH705P	Project	BCE	Mini Project	0	0	8	4	-	-	50	50	100
				Total	13	2	14	22	160	240	100	100	600

Program Elective Course:04		
S.N.	Course Code	Course Name
1.	26UCH721T	Hydrogen and Fuel Cell Technology
2.	26UCH722T	Piping Engineering
3.	26UCH723T	Biochemical Engineering

Multidisciplinary Minor:05		
S.N.	Course Code	Course Name
1	26UBS704T	Instrumental Methods of Chemical Analysis
2	26UBT705T	Chemical Drug Formulation
3	26UCS707T	Introduction to Data Science

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SCHEME OF EXAMINATION
B. TECH. CHEMICAL ENGINEERING

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	26UCH8XXT	PEC	BCE	Program Elective Course:05 (MOOC)*	3	0	0	3	40	60	-	-	100
2	26UCH8XXT	PEC	BCE	Program Elective Course: 06 (MOOC)*	3	0	0	3	40	60	-	-	100
3	26UCH801P	Internship /OJT	BCE	Internship/ On Job Training	0	0	24	12	-	-	150	150	300
				Total	06	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
B. TECH. CHEMICAL ENGINEERING

Annexure-1

Basket of Multidisciplinary Minor Subjects

Basket: Chemical Science

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1.	III	24UBS310T	ASH	Numerical Methods in Chemical Engineering	2
2.	IV	24UBS403T	ASH	Inorganic Process Technology	2
3.	IV	24UBS403P	ASH	Lab : Inorganic Process Technology	1
4.	V	25UBS503T	ASH	Organic Process Technology	3
5.	V	25UBS503P	ASH	Lab : Organic Process Technology	1
6.	VI	25UCH604P	BCE	Employability Enhancement Skills	2
7.	VII	26UBS704T	ASH	Instrumental Methods of Chemical Analysis	3
Total					14

Basket : Biochemical Engineering

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1.	III	24UBS310T	ASH	Numerical Methods in Chemical Engineering	2
2.	IV	24UBT404T	BT	Industrial Biotechnology	2
3.	IV	24UBT404P	BT	Lab : Industrial Biotechnology	1
4.	V	25UBT504T	BT	Analytical Techniques for Bio-processes	3
5.	V	25UBT504P	BT	Lab : Analytical Techniques for Bio-processes	1
6.	VI	25UCH604P	BCE	Employability Enhancement Skills	2
7.	VII	26UBT705T	BT	Chemical Durg Formulation	3
Total					14

Basket : Computer Programming

Sr. No.	Semester	Course Code	BOS/ Department	Course Name	Credits
1.	III	24UBS310T	ASH	Numerical Methods in Chemical Engineering	2
2.	IV	24UCS406T	CSE	Programming in C and Modern C++	2
3.	IV	24UCS406P	CSE	Lab : Programming in C and Modern C++	1
4.	V	25UCS 506T	CSE	Programming in Python	3
5.	V	25UCS 506P	CSE	Lab : Programming in Python	1
6.	VI	25UCH604P	BCE	Employability Enhancement Skills	2
7.	VII	26UCS707T	CSE	Introduction to Data Science	3
Total					14

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Annexure-2

Basket of Open Elective Subjects

Semester III

Sr. No.	Course Code	Course Name OE:01
1.	24UOE328T	Conservation of Natural Resources
2.	24UOE329T	Environmental Pollution and Control
3.	24UOE330T	Engineering Biology

Semester IV

Sr. No.	Course Code	Course Name OE:02
1.	24UOE428T	Sustainable Development and Governance
2.	24UOE429T	Energy Conservation and Recycling
3.	24UOE430T	Green Technology

Semester V

Sr. No.	Course Code	Course Name OE:-03
1.	25UOE528T	Climate Change and Carbon Management
2.	25UOE529T	Intellectual Property and Innovation for Engineers
3.	25UOE530T	Energy Audit

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Annexure-3
List of Programme Elective Courses (PEC)

Semester-V

Sr. No.	Course Code	Course Name PEC-01
1.	25UCH521T	Process Technology and Economics
2.	25UCH522T	Chemical Process Synthesis and Design
3.	25UCH523T	Statistical Design of Experiment

Semester-VI

Sr. No.	Course Code	Course Name PEC-02	Course Code	Course Name PEC-03
1.	25UCH621T	Polymer Science and Engineering	25UCH631T	Environmental Science & Waste Management
2.	25UCH622T	Process Intensification	25UCH632T	Optimization of Chemical Processes
3.	25UCH623T	Membrane Technology	25UCH633T	Chemical Hazards & Safety

Semester-VII

Sr. No.	Course Code	Course Name PEC-04
1.	26UCH721T	Hydrogen and Fuel Cell Technology
2.	26UCH722T	Piping Engineering
3.	26UCH723T	Biochemical Engineering

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B. TECH. CHEMICAL ENGINEERING

Annexure-4

B. Tech. Honors in Computer Aided Chemical Engineering

Sr. No.	Sem	Course Code	Course Name	Contact Hours				Marks				Total Marks
								Theory		Practical		
				L	T	P	Credits	CE	ESE	CE	ESE	
1.	IV	24UHSCH4T	Computational Thermodynamics	3	0	0	03	40	60	-	-	100
2.	IV	24UHSCH4P	Lab :Computational Thermodynamics	0	0	2	01	-	-	25	25	50
3.	V	25UHSCH5T	Process Control & Automation	3	0	0	03	40	60	-	-	100
4.	V	25UHSCH5P	Lab :Process Control & Automation	0	0	2	01	-	-	25	25	50
5.	VI	25UHSCH6T	Computational Fluid Dynamics (CFD)	3	0	0	03	40	60	-	-	100
6.	VI	25UHSCH6P	Lab :Computational Fluid Dynamics	0	0	2	01	-	-	25	25	50
7.	VII	26UHSCH7T	Computational Process Design	3	0	0	03	40	60	-	-	100
8.	VII	26UHSCH7P	Project Based Learning	0	0	6	03	-	-	100	-	100
			Total	12	0	12	18	200	300	175	75	650

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Principal
Dr. S. A. Dhale



SCHEME OF EXAMINATION
B. TECH. CHEMICAL ENGINEERING

Annexure-5

B. Tech. Double Minor (Multidisciplinary)
Chemical Process Engineering

Sr. No.	Semester	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	24UDMCH4T	PCC	BCE	Fluid Mechanics & Solid Handling	3	0	0	3	40	60	-	-	100
2	IV	24UDMCH4P	PCC	BCE	Lab :Fluid Mechanics & Solid Handling	0	0	2	1	-	-	25	25	50
3	V	25UDMCH5T	PCC	BCE	Basics of Heat and Mass Transfer	3	0	0	3	40	60	-	-	100
4	V	25UDMCH5P	PCC	BCE	Lab :Basics of Heat and Mass Transfer	0	0	2	1	-	-	25	25	50
5	VI	25UDMCH6T	PCC	BCE	Fundamentals of Chemical Reaction Engineering	3	0	0	3	40	60	-	-	100
6	VI	25UDMCH6P	PCC	BCE	Lab :Fundamentals of Chemical Reaction Engineering	0	0	2	1	-	-	25	25	50
7	VII	26UDMCH7T	PCC	BCE	Modeling Simulation of Chemical Processes	3	0	0	3	40	60	-	-	100
8	VII	26UDMCH7P	Project	BCE	Project Based Learning	0	0	6	3	-	-	50	50	100
					Total	12	0	12	18	160	240	100	100	650

BOS Chairman
Dr. Vivek P. Bhange

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

Principal
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SCHEME OF EXAMINATION
B. TECH. CHEMICAL ENGINEERING

Exit Scheme

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

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UECCCHT	PCC	BCE	Introduction to Unit Operation	4	0	0	4	40	60	-	-	100
2	24UECCCHP	PCC	BCE	Lab : Unit Operation	0	0	8	4	-	-	50	50	100
				Total	4	0	8	08	40	60	50	50	200

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

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UEDCCHT	PCC	BCE	Chemical Reaction Engineering & Design	4	0	0	4	40	60	-	-	100
2	25UEDCCHP	PCC	BCE	Lab : Chemical Reaction Engineering	0	0	8	4	-	-	50	50	100
				Total	4	0	8	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	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UEBVCHT	PCC	BCE	Chemical Process Modeling & Simulation	4	0	0	4	40	60	-	-	100
2	26UEBVCHP	PCC	BCE	Project/Internship	0	0	8	4	-	-	50	50	100
				Total	4	0	8	08	40	60	50	50	200

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

BOS Chairman
Dr. Vivek P. Bhang

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

Principal
Dr. S. A. Dhale