Chemical Engineering

		Second Year (Third Semester)		
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1201	Mathematics-III	3-0-0	3
2	CH1201	Professional Core-1: Fuels and Combustion	3-0-0	3
3	CH1202	Professional Core-2: Fluid Mechanics	3-0-0	3
4	CH1203	Professional Core-3: Chemical Process Technology	3-0-0	3
5	CS1205	Advanced Competency Course-1: Programming in Python (PC-4)	3-0-0	2
6	HS1202	Organizational Behaviour	3-0-0	2
		Subject (Sessional)		
7	CH1281	Fluid Mechanics Laboratory	0-0-3	1.5
8	CH1282	Fuel Technology–I Laboratory	0-0-3	1.5
9	CH1283	Process Technology Laboratory	0-0-3	1.5
10	CS1285	Machine Learning Using Python Laboratory	0-0-3	1.5
		Total	18-0-12	22
		Second Year (Fourth Semester)		
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1202	Professional Core-5: Numerical Methods in Engineering	3-0-0	3
2	CH1204	Professional Core-6 : Mechanical Operations	3-0-0	3
3	CH1205	Professional Core-7 : Chemical Engineering Thermodynamics	3-0-0	3
4	CH1206	Professional Core-8 : Chemical Process Calculation	3-0-0	3
5	CS1209	Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9)	3-0-0	2
6	HS1201	Engineering Economics	3-0-0	2
		Subject (Sessional)		
7	CH1284	Fuel Technology - II Laboratory	0-0-3	1.5
8	CH1285	Chemical Engineering Thermodynamics Laboratory	0-0-3	1.5
9	CH1286	Mechanical Operation Laboratory	0-0-3	1.5
10	CH1287	Environmental Engineering Laboratory	0-0-3	1.5
				l
		Summer Internship and Research Experience (S	IKE- I) *	

Civil Engineering

		Second Year (Third Semester)		
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1201	Mathematics-III	3-0-0	3
2	CE1201	Professional Core-1: Mechanics of Material	3-0-0	3
3	CE1202	Professional Core-2: Geotechnical Engineering-I	3-0-0	3
4	CE1203	Professional Core-3: Fluid Mechanics	3-0-0	3
5	CS1205	Advanced Competency Course-1: Programming in Python (PC-4)	3-0-0	2
6	HS1202	Organizational Behaviour	3-0-0	2
		Subject (Sessional)		
7	CE1281	Concrete Laboratory	0-0-3	1.5
8	CE1282	Geotechnical Engineering Laboratory	0-0-3	1.5
9	CE1283	Fluid Mechanics Laboratory	0-0-3	1.5
10	CS1285	Machine Learning Using Python Laboratory	0-0-3	1.5
		Total	18-0-12	22
		Second Year (Fourth Semester)		
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	CE1204	Professional Core-5: Surveying and Geomatics	3-0-0	3
2	CE1205	Professional Core-6: Structural Analysis	3-0-0	3
3	CE1206	Professional Core-7: Geotechnical Engineering-II	3-0-0	3
4	CE1207	Professional Core-8: Transportation Engineering-I	3-0-0	3
5	CS1209	Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9)	3-0-0	2
6	HS1201	Engineering Economics	3-0-0	2
		Subject (Sessional)		
7	CE1284	Survey Practice	0-0-3	1.5
8	CE1285	Structural Engineering Laboratory	0-0-3	1.5
9	CE1286	Building Drawing	0-0-3	1.5
10	CE1287	Transportation Engineering Laboratory	0-0-3	1.5
	1			
		Summer Internship and Research Experience (SIR	E- I) *	

School of Computer Science

1 7	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1 1	MA1201	Mathematics-III	3-0-0	3
2 (CS1201	Professional Core-1: Digital Logic Design	3-0-0	3
3 (CS1202	Professional Core-2: Data Structures	3-0-0	3
4 (CS1203	Professional Core-3: Database Engineering	3-0-0	3
5 (CS1205	Advanced Competency Course-1: Object Oriented Programming (PC-4)	3-0-0	2
6 1	HS1201	Engineering Economics	3-0-0	2
		Subject (Sessional)		•
7	CS1281	Digital Logic Design Laboratory	0-0-3	1.5
8 (CS1282	Data Structures Laboratory	0-0-3	1.5
9 (CS1283	Database Engineering Laboratory	0-0-3	1.5
10	CS1284	Object Oriented Programming Laboratory	0-0-3	1.5
		Total	18-0-12	22
Sl. No.	Course Code	Second Year (Fourth Semester) Subject (Theory)	Contact Hrs. L-T-P	Credit
1 1	MA1204	Professional Core-5: Discrete Mathematics	3-0-0	3
2	CS1206	Professional Core-6: Computer Organization & Architecture	3-0-0	3
	GG1205	Duefaccional Come 7. Design and Analysis of		
3 (CS1207	Professional Core-7: Design and Analysis of Algorithms	3-0-0	3
	CS1207 CS1208	l =	3-0-0 3-0-0	3
4 (Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming		
4 (CS1208	Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9)	3-0-0	3
4 (CS1208 CS1205	Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming	3-0-0 3-0-0	3 2
4 (c) 5 (d) 6 1	CS1208 CS1205	Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9) Organizational Behavior	3-0-0 3-0-0	3 2
4 (6 5 6 1 7 (6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CS1208 CS1205 HS1202	Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9) Organizational Behavior Subject (Sessional) Computer Organization & Architecture	3-0-0 3-0-0 3-0-0	3 2 2
4 6 5 6 1 7 6 8 6	CS1208 CS1205 HS1202 CS1286	Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9) Organizational Behavior Subject (Sessional) Computer Organization & Architecture Laboratory	3-0-0 3-0-0 3-0-0	3 2 2 1.5
4 (6 5 6 1 7 6 8 6 9 6 9 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CS1208 CS1205 HS1202 CS1286 CS1287	Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9) Organizational Behavior Subject (Sessional) Computer Organization & Architecture Laboratory Design and Analysis of Algorithms Laboratory	3-0-0 3-0-0 3-0-0 0-0-3 0-0-3 0-0-3	3 2 2 1.5 1.5

Electrical Engineering

		Second Year (Third Semester)		
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1201	Mathematics-III	3-0-0	3
2	EE1201	Professional Core-1: Electrical Machines – I	3-0-0	3
3	EE1202	Professional Core-2: Network Theory	3-0-0	3
4	EC1203	Professional Core-3: Analog and Digital Electronic Circuits	3-0-0	3
5	EE1203	Advanced Competency Course-1: Optimization and Soft Computing (PC-4)	3-0-0	2
6	HS1201	Engineering Economics	3-0-0	2
		Subject (Sessional)		
7	EE1281	Electrical Machines Laboratory – I	0-0-3	1.5
8	EE1282	Network Laboratory	0-0-3	1.5
9	EC1283	Analog and Digital Electronic Circuits Laboratory	0-0-3	1.5
10	EE1283	Optimization and Soft Computing Laboratory	0-0-3	1.5
		Total	18-0-12	22
		Second Year (Fourth Semester)	
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	EE1204	Professional Core-5 : Measurement and Instrumentation	3-0-0	3
2	EE1205	Professional Core-6 : Electrical Machines-II	3-0-0	3
3	EE1206	Professional Core-7: Power Electronics	3-0-0	3
4	EE1207	Professional Core-8: Power Generation Transmission and Distribution	3-0-0	3
5	CS1204	Advanced Competency Course-2 : Programming in Python (PC-9)	3-0-0	2
6	HS1202	Organizational Behavior	3-0-0	2
		Subject (Sessional)	1	1
7	EE1284	Electrical Machines Laboratory-II	0-0-6	3
8	EE1285	Power Electronics Laboratory	0-0-3	1.5
9	CS1289	Programming in Python Laboratory	0-0-3	1.5
		Summer Internship and Research Experience (SIRE- I) *	

Electrical and Electronics Engineering

		Second Year (Third Semester)		
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1201	Mathematics-III	3-0-0	3
2	EE1201	Professional Core-1: Electrical Machines – I	3-0-0	3
3	EE1202	Professional Core-2: Network Theory	3-0-0	3
4	EC1201	Professional Core-3: Analog Electronic Circuits	3-0-0	3
5	EE1203	Advanced Competency Course-1: Optimization and Soft Computing (PC-4)	3-0-0	2
6	HS1201	Engineering Economics	3-0-0	2
	•	Subject (Sessional)		•
7	EE1281	Electrical Machines Laboratory – I	0-0-3	1.5
8	EE1282	Network Laboratory	0-0-3	1.5
9	EC1281	Analog Electronic Circuits Laboratory	0-0-3	1.5
10	EE1283	Optimization and Soft Computing Laboratory	0-0-3	1.5
	•	Total	18-0-12	22
		Second Year (Fourth Semester)		_
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	EC1204	Professional Core-5: Digital System Design	3-0-0	3
2	EE1204	Professional Core-6: Measurement and Instrumentation	3-0-0	3
3	EE1205	Professional Core-7: Electrical Machines – II	3-0-0	3
4	EE1208	Professional Core-8: Signals and Systems	3-0-0	3
5	CS1205	Advanced Competency Course-2 : Programming in Python (PC-9)	3-0-0	2
6	HS1202	Organizational Behavior	3-0-0	2
	L	Subject (Sessional)		
7	EE1286	Measurement and Instrumentation Laboratory	0-0-3	1.5
8	EC1284	Digital System Design Laboratory	0-0-3	1.5
9	EE1284	Electrical Machines Laboratory – II	0-0-3	1.5
10	CS1289	Programming in Python Laboratory	0-0-3	1.5
		Summer Internship and Research Experience (S	SIRE- I) *	
		Total	18-0-12	22

Electronics and Telecommunication Engineering

		Second Year (Third Semester)		
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1201	Mathematics-III	3-0-0	3
2	EC1201	Professional Core-1 : Analog Electronic Circuits	3-0-0	3
3	EC1202	Professional Core-2 : Basic Communication Engineering	3-0-0	3
4	EE1202	Professional Core-3 : Network Theory	3-0-0	3
5	EE1203	Advanced Competency Course-1: Optimization and Soft Computing (PC-4)	3-0-0	2
6	HS1201	Engineering Economics	3-0-0	2
		Subject (Sessional)		
7	EC1281	Analog Electronic Circuits Laboratory	0-0-3	1.5
8	EC1282	Basic Communication Engineering Laboratory	0-0-3	1.5
9	EE1282	Network Laboratory	0-0-3	1.5
10	EE1283	Optimization & Soft Computing Laboratory	0-0-3	1.5
		Total	18-0-12	22
		Second Year (Fourth Semester)	_
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	EC1204	Professional Core-5 : Digital System Design	3-0-0	3
2	EC1205	Professional Core-6 : Advanced Communication Engineering	3-0-0	3
3	EC1206	Professional Core-7 : Electromagnetics	3-0-0	3
4	EC1207	Professional Core-8: Electronics Instrumentation	3-0-0	3
5	CS1205	Advanced Competency Course-2: Programming in Python(PC-9)	3-0-0	2
6	HS1202	Organizational Behavior	3-0-0	2
		Subject (Sessional)		
7	EC1284	Digital System Design Laboratory	0-0-3	1.5
8	EC1285	Advanced Communication Engineering Laboratory	0-0-3	1.5
9	EC1286	Electronics Instrumentation Laboratory	0-0-3	1.5
10	CS1289	Programming in Python Laboratory	0-0-3	1.5
		Summer Internship and Research Experience (SIRE- I) *	
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Mechanical Engineering

		Second Year (Third Semeste	r)	
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1201	Mathematics-III	3-0-0	3
2	ME1201	Professional Core-1: Mechanics of Deformable Solids (MOS)	3-0-0	3
3	ME1202	Professional Core-2: Basic Thermodynamics (BT)	3-0-0	3
4	ME1203	Professional Core-3 : Engineering Materials and Metallurgy	3-0-0	3
5	CS1205	Advanced Competency Course-1: Programming in Python (PC-4)	3-0-0	2
6	HS1202	Organizational Behaviour	3-0-0	2
	T	Subject (Sessional)		
7	ME1281	Thermal Engineering, Material Testing and Foundry Laboratory	0-0-3	1.5
8	ME1282	Machine Drawing	0-0-3	1.5
9	ME1283	Workshop Practice-II	0-0-3	1.5
10	CS1285	Machine Learning Using Python Laboratory	0-0-3	1.5
		Total	18-0-12	22
		Second Year (Fourth Semeste	er)	
Sl. No.	Course Code	Second Year (Fourth Semester Subject (Theory)	er) Contact Hrs. L-T-P	Credit
		Subject (Theory) Professional Core-5 : Numerical Methods in	Contact Hrs.	Credit 3
No.	Code	Subject (Theory)	Contact Hrs. L-T-P	
No. 1	Code MA1203	Subject (Theory) Professional Core-5 : Numerical Methods in Engineering Professional Core-6 : Fluid Mechanics Professional Core-7 : Machine Element &	Contact Hrs. L-T-P	3
No. 1 2	Code MA1203 ME1204	Subject (Theory) Professional Core-5 : Numerical Methods in Engineering Professional Core-6 : Fluid Mechanics Professional Core-7 : Machine Element & System Design Professional Core-8 : Kinematics and	Contact Hrs. L-T-P 3-0-0 3-0-0	3 3
No. 1 2 3	Code MA1203 ME1204 ME1205	Subject (Theory) Professional Core-5 : Numerical Methods in Engineering Professional Core-6 : Fluid Mechanics Professional Core-7 : Machine Element & System Design Professional Core-8 : Kinematics and Dynamics of Machines (MD-I) Advanced Competency Course-2: Artificial	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0	3 3 3
No. 1 2 3	MA1203 ME1204 ME1205 ME1206	Subject (Theory) Professional Core-5 : Numerical Methods in Engineering Professional Core-6 : Fluid Mechanics Professional Core-7 : Machine Element & System Design Professional Core-8 : Kinematics and Dynamics of Machines (MD-I)	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0	3 3 3
No. 1 2 3 4 5	Code MA1203 ME1204 ME1205 ME1206 CS1209	Subject (Theory) Professional Core-5 : Numerical Methods in Engineering Professional Core-6 : Fluid Mechanics Professional Core-7 : Machine Element & System Design Professional Core-8 : Kinematics and Dynamics of Machines (MD-I) Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9)	3-0-0 3-0-0 3-0-0 3-0-0 3-0-0	3 3 3 3 2
No. 1 2 3 4 5	Code MA1203 ME1204 ME1205 ME1206 CS1209	Subject (Theory) Professional Core-5: Numerical Methods in Engineering Professional Core-6: Fluid Mechanics Professional Core-7: Machine Element & System Design Professional Core-8: Kinematics and Dynamics of Machines (MD-I) Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics	3-0-0 3-0-0 3-0-0 3-0-0 3-0-0	3 3 3 3 2
No. 1 2 3 4 5 6	Code MA1203 ME1204 ME1205 ME1206 CS1209 HS1201	Professional Core-5: Numerical Methods in Engineering Professional Core-6: Fluid Mechanics Professional Core-7: Machine Element & System Design Professional Core-8: Kinematics and Dynamics of Machines (MD-I) Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional)	3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0	3 3 3 2 2
No. 1 2 3 4 5 6	Code MA1203 ME1204 ME1205 ME1206 CS1209 HS1201 ME1284	Professional Core-5: Numerical Methods in Engineering Professional Core-6: Fluid Mechanics Professional Core-7: Machine Element & System Design Professional Core-8: Kinematics and Dynamics of Machines (MD-I) Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional) Dynamics and Metrology Laboratory Machine Design Laboratory – I Workshop Practice— III	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 0-0-3	3 3 3 2 2 2
No. 1 2 3 4 5 6 7 8	Code MA1203 ME1204 ME1205 ME1206 CS1209 HS1201 ME1284 ME1285	Professional Core-5 : Numerical Methods in Engineering Professional Core-6 : Fluid Mechanics Professional Core-7 : Machine Element & System Design Professional Core-8 : Kinematics and Dynamics of Machines (MD-I) Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional) Dynamics and Metrology Laboratory Machine Design Laboratory – I Workshop Practice— III Fluid Mechanics Laboratory	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 0-0-3 0-0-3 0-0-3 0-0-3	3 3 3 2 2 2 1.5 1.5
No. 1 2 3 4 5 6 7 8 9	Code MA1203 ME1204 ME1205 ME1206 CS1209 HS1201 ME1284 ME1285 ME1286	Professional Core-5: Numerical Methods in Engineering Professional Core-6: Fluid Mechanics Professional Core-7: Machine Element & System Design Professional Core-8: Kinematics and Dynamics of Machines (MD-I) Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional) Dynamics and Metrology Laboratory Machine Design Laboratory – I Workshop Practice— III	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 0-0-3 0-0-3 0-0-3 0-0-3	3 3 3 2 2 2 1.5 1.5

Metallurgical & Materials Engineering

		Second Year (Third Semester	()	
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1201	Mathematics-III	3-0-0	3
2	MT1201	Professional Core-1: Metallurgical Thermodynamics & Kinetics	3-0-0	3
3	MT1202	Professional Core-2: Introduction to Physical Metallurgy	3-0-0	3
4	MT1203	Professional Core-3: Transport Phenomena	3-0-0	3
5	CS1205	Advanced Competency Course-1: Programming in Python (PC-4)	3-0-0	2
6	HS1202	Organizational Behaviour	3-0-0	2
		Subject (Sessional)		
7	MT1281	Metallurgical Thermodynamics & Kinetics Laboratory	0-0-3	1.5
8	MT1282	Introduction to Physical Metallurgy Laboratory	0-0-3	1.5
9	MT1283	Transport Phenomena Laboratory	0-0-3	1.5
10	CS1285	Machine Learning Using Python Laboratory	0-0-3	1.5
		Total	18-0-12	22
		Second Year (Fourth Semeste		22
Sl. No.	Course Code			Credit
		Second Year (Fourth Semeste	r) Contact Hrs.	Credit
No.	Code	Second Year (Fourth Semeste Subject (Theory) Professional Core-5: Phase Transformation	r) Contact Hrs. L-T-P	
No. 1	Code MT1204	Second Year (Fourth Semeste Subject (Theory)	Contact Hrs. L-T-P	Credit 3
No. 1 2	Code MT1204 MT1205	Second Year (Fourth Semeste Subject (Theory) Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle	Contact Hrs. L-T-P 3-0-0 3-0-0	Credit 3 3
No. 1 2 3	Code MT1204 MT1205 MT1206	Second Year (Fourth Semeste Subject (Theory) Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle of Extraction Professional Core-8: Deformation Behavior of Materials Advanced Competency Course- 2: Artificial	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0	Credit 3 3 3 3
No. 1 2 3	Code MT1204 MT1205 MT1206 MT1207	Second Year (Fourth Semeste Subject (Theory) Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle of Extraction Professional Core-8: Deformation Behavior of Materials	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0	Credit 3 3 3 3
No. 1 2 3 4 5	Code MT1204 MT1205 MT1206 MT1207 CS1209	Second Year (Fourth Semeste Subject (Theory) Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle of Extraction Professional Core-8: Deformation Behavior of Materials Advanced Competency Course- 2: Artificial Intelligence and Machine Learning (PC-9)	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0	Credit
No. 1 2 3 4 5	Code MT1204 MT1205 MT1206 MT1207 CS1209	Subject (Theory) Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle of Extraction Professional Core-8: Deformation Behavior of Materials Advanced Competency Course- 2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0	Credit
No. 1 2 3 4 5 6	Code MT1204 MT1205 MT1206 MT1207 CS1209 HS1201	Subject (Theory) Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle of Extraction Professional Core-8: Deformation Behavior of Materials Advanced Competency Course- 2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional)	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0	Credit 3 3 3 2 2
No. 1 2 3 4 5 6	Code MT1204 MT1205 MT1206 MT1207 CS1209 HS1201	Subject (Theory) Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle of Extraction Professional Core-8: Deformation Behavior of Materials Advanced Competency Course- 2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional) Mineral Processing Laboratory	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 0-0-3	Credit
No. 1 2 3 4 5 6	Code MT1204 MT1205 MT1206 MT1207 CS1209 HS1201 MT1284 MT1285	Subject (Theory) Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle of Extraction Professional Core-8: Deformation Behavior of Materials Advanced Competency Course- 2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional) Mineral Processing Laboratory Process Metallurgy Laboratory	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 0-0-3 0-0-3	Credit 3 3 3 2 2 1.5 1.5
No. 1 2 3 4 5 6 7 8 9	Code MT1204 MT1205 MT1206 MT1207 CS1209 HS1201 MT1284 MT1285 MT1286	Subject (Theory) Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle of Extraction Professional Core-8: Deformation Behavior of Materials Advanced Competency Course- 2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional) Mineral Processing Laboratory Process Metallurgy Laboratory Phase Transformation Laboratory	Contact Hrs. L-T-P 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 0-0-3 0-0-3 0-0-3 0-0-3	Credit 3 3 3 3 2 2 1.5 1.5 1.5

Production Engineering

		Second Year (Third Semester))	
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1201	Mathematics-III	3-0-0	3
2	PE1201	Professional Core-1: Thermal and Fluids Engineering	3-0-0	3
3	PE1202	Professional Core-2: Materials Engineering & Metallurgy	3-0-0	3
4	PE1203	Professional Core-3: Mechanics of Materials	3-0-0	3
5	CS1205	Advanced Competency Course-1: Programming in Python (PC-4)	3-0-0	2
6	HS1202	Organizational Behaviour	3-0-0	2
		Subject (Sessional)		
7	PE1281	Thermal and Fluid Engineering Laboratory	0-0-3	1.5
8	PE1282	Material Testing Laboratory	0-0-3	1.5
9	PE1283	Computer Aided Machine Drawing	0-0-3	1.5
10	CS1285	Machine Learning Using Python Laboratory	0-0-3	1.5
		Total	18-0-12	22
		Second Year (Fourth Semester	•)	
Sl. No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	PE1204	Professional Core-5: Theory of Metal Cutting	3-0-0	3
2	PE1205	Professional Core-6: Theory of Machine	3-0-0	3
3	PE1206	Professional Core-7: Inspection & Metrology	3-0-0	3
4	PE1207	Professional Core-8: Manufacturing Technology-I	3-0-0	3
5	CS1209	Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9)	3-0-0	2
6	HS1201	Engineering Economics	3-0-0	2
	ı	Subject (Sessional)		
7		Metal Cutting Laboratory	0-0-3	1.5
	PE1284	Metal Cutting Laboratory	0-0-3	1.5
8	PE1284 PE1285	Machine Dynamics Laboratory	0-0-3	1.5
8 9		į		+
	PE1285	Machine Dynamics Laboratory	0-0-3	1.5
9	PE1285 PE1286	Machine Dynamics Laboratory Metrology Laboratory Production Practice Laboratory-I (casing, welding	0-0-3 0-0-3 0-0-3	1.5 1.5