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
		1 Hermod / Harmes		3
4	CH1206	Professional Core-8 : Chemical Process Calculation	3-0-0	3
5	CH1206 CS1209	Professional Core-8 : Chemical Process Calculation Advanced Competency Course-2: Artificial	3-0-0 3-0-0	
		Professional Core-8 : Chemical Process Calculation		3
5	CS1209	Professional Core-8 : Chemical Process Calculation Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional)	3-0-0	3 2
5	CS1209	Professional Core-8: Chemical Process Calculation Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics	3-0-0	3 2
5	CS1209 HS1201	Professional Core-8 : Chemical Process Calculation Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional)	3-0-0 3-0-0	3 2 2
5 6	CS1209 HS1201 CH1284	Professional Core-8 : Chemical Process Calculation Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional) Fuel Technology - II Laboratory Chemical Engineering Thermodynamics	3-0-0 3-0-0 0-0-3	3 2 2 1.5
5 6 7 8	CS1209 HS1201 CH1284 CH1285	Professional Core-8 : Chemical Process Calculation Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional) Fuel Technology - II Laboratory Chemical Engineering Thermodynamics Laboratory	3-0-0 3-0-0 0-0-3 0-0-3	3 2 2 1.5 1.5
5 6 7 8 9	CS1209 HS1201 CH1284 CH1285 CH1286	Professional Core-8 : Chemical Process Calculation Advanced Competency Course-2: Artificial Intelligence and Machine Learning (PC-9) Engineering Economics Subject (Sessional) Fuel Technology - II Laboratory Chemical Engineering Thermodynamics Laboratory Mechanical Operation Laboratory	3-0-0 3-0-0 0-0-3 0-0-3 0-0-3	3 2 2 1.5 1.5 1.5

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)		1
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
	T	Second Year (Fourth Semester)	Contact	
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
10	CL1207	Transportation Engineering Europeancy	000	1.3
10	CLIZOT	Summer Internship and Research Experience (SIR		1.3

Computer Science and 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	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	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
	1	Total	18-0-12	22
Sl. No.	Course Code	Second Year (Fourth Semester) Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1204	Professional Core-5: Discrete Mathematics	3-0-0	
2	CS1206	Due fossional Come (. Commutan Oussainstian 0-		3
	CD1200	Professional Core-6: Computer Organization & Architecture	3-0-0	3
3	CS1207		3-0-0 3-0-0	
3		Architecture Professional Core-7: Design and Analysis of		3
	CS1207	Architecture Professional Core-7: Design and Analysis of Algorithms	3-0-0	3
4	CS1207 CS1208	Architecture Professional Core-7: Design and Analysis of Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming	3-0-0 3-0-0	3 3
5	CS1207 CS1208 CS1205	Architecture Professional Core-7: Design and Analysis of Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9)	3-0-0 3-0-0 3-0-0	3 3 3 2
5	CS1207 CS1208 CS1205	Architecture Professional Core-7: Design and Analysis of Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9) Organizational Behavior	3-0-0 3-0-0 3-0-0	3 3 3 2
4 5 6	CS1207 CS1208 CS1205 HS1202	Architecture Professional Core-7: Design and Analysis of Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9) Organizational Behavior Subject (Sessional) Computer Organization and Architecture	3-0-0 3-0-0 3-0-0 3-0-0	3 3 2 2
4 5 6	CS1207 CS1208 CS1205 HS1202 CS1286	Architecture Professional Core-7: Design and Analysis of Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9) Organizational Behavior Subject (Sessional) Computer Organization and Architecture Laboratory	3-0-0 3-0-0 3-0-0 3-0-0	3 3 2 2 1.5
4 5 6 7 8	CS1207 CS1208 CS1205 HS1202 CS1286 CS1287	Architecture Professional Core-7: Design and Analysis of Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9) Organizational Behavior Subject (Sessional) Computer Organization and Architecture Laboratory Design and Analysis of Algorithms Laboratory	3-0-0 3-0-0 3-0-0 3-0-0 0-0-3	3 3 2 2 2 1.5
4 5 6 7 8 9	CS1207 CS1208 CS1205 HS1202 CS1286 CS1287 CS1288	Architecture Professional Core-7: Design and Analysis of Algorithms Professional Core-8: Computer Networks Advanced Competency Course-2: Programming in Python (PC-9) Organizational Behavior Subject (Sessional) Computer Organization and Architecture Laboratory Design and Analysis of Algorithms Laboratory Computer Networks Laboratory	3-0-0 3-0-0 3-0-0 3-0-0 0-0-3 0-0-3 0-0-3	3 3 2 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)		•
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 (
		Total	18-0-12	22

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
		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
10				
10		Summer Internship and Research Experience (S	SIRE- I) *	

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
	1	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	3-0-0	2
-	0.01200	in Python(PC-9)	3-0-0	2
6	HS1202	in Python(PC-9) Organizational Behavior	3-0-0	2
		in Python(PC-9) Organizational Behavior Subject (Sessional)		
		Organizational Behavior		
6	HS1202	Organizational Behavior Subject (Sessional)	3-0-0	2
6 7	HS1202 EC1284	Organizational Behavior Subject (Sessional) Digital System Design Laboratory Advanced Communication Engineering	3-0-0 0-0-3	1.5
6 7 8	HS1202 EC1284 EC1285	Organizational Behavior Subject (Sessional) Digital System Design Laboratory Advanced Communication Engineering Laboratory	3-0-0 0-0-3 0-0-3	1.5 1.5
6 7 8 9	HS1202 EC1284 EC1285 EC1286	Organizational Behavior Subject (Sessional) Digital System Design Laboratory Advanced Communication Engineering Laboratory Electronics Instrumentation Laboratory Programming in Python Laboratory Summer Internship and Research Experience (3-0-0 0-0-3 0-0-3 0-0-3	1.5 1.5 1.5
6 7 8 9	HS1202 EC1284 EC1285 EC1286	Organizational Behavior Subject (Sessional) Digital System Design Laboratory Advanced Communication Engineering Laboratory Electronics Instrumentation Laboratory Programming in Python Laboratory	3-0-0 0-0-3 0-0-3 0-0-3	1.5 1.5 1.5

Mechanical Engineering

		Second Year (Third Semester	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
		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	Subject (Theory)	Contact Hrs. L-T-P	Credit
1	MA1203	Professional Core-5 : Numerical Methods in		
2		Engineering	3-0-0	3
	ME1204	Engineering Professional Core-6: Fluid Mechanics	3-0-0	3
3	ME1204 ME1205	•		
		Professional Core-6 : Fluid Mechanics Professional Core-7 : Machine Element &	3-0-0	3
3	ME1205	Professional Core-6 : Fluid Mechanics Professional Core-7 : Machine Element & System Design Professional Core-8 : Kinematics and	3-0-0 3-0-0	3
3	ME1205 ME1206	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	3-0-0 3-0-0 3-0-0	3 3 3
3 4 5	ME1205 ME1206 CS1209	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 3 3 2
3 4 5	ME1205 ME1206 CS1209	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 3 3 2
3 4 5 6	ME1205 ME1206 CS1209 HS1201	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 3 3 2 2
3 4 5 6	ME1205 ME1206 CS1209 HS1201 ME1284	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	3-0-0 3-0-0 3-0-0 3-0-0 0-0-3	3 3 3 2 2 2
3 4 5 6 7 8	ME1205 ME1206 CS1209 HS1201 ME1284 ME1285	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	3-0-0 3-0-0 3-0-0 3-0-0 0-0-3 0-0-3	3 3 3 2 2 2 1.5 1.5
3 4 5 6 7 8 9	ME1205 ME1206 CS1209 HS1201 ME1284 ME1285 ME1286	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	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 1.5

Metallurgical & Materials Engineering

		Second Year (Third Semester	r)	
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)		1
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	r)	
Sl.				
No.	Course Code	Subject (Theory)	Contact Hrs. L-T-P	Credit
No. 1	Code	•		
		Professional Core-5: Phase Transformation	L-T-P	Credit 3 3
1	Code MT1204	•	L-T-P 3-0-0	3
1 2	Code MT1204 MT1205	Professional Core-5: Phase Transformation Professional Core-6: Mineral Processing Professional Core-7: Unit Process and Principle	L-T-P 3-0-0 3-0-0	3 3
1 2 3	Code MT1204 MT1205 MT1206	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	3-0-0 3-0-0 3-0-0	3 3 3
1 2 3	Code MT1204 MT1205 MT1206 MT1207	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	3-0-0 3-0-0 3-0-0 3-0-0	3 3 3 3
1 2 3 4 5	Code MT1204 MT1205 MT1206 MT1207 CS1209	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)	3-0-0 3-0-0 3-0-0 3-0-0	3 3 3 3
1 2 3 4 5	Code MT1204 MT1205 MT1206 MT1207 CS1209	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	3-0-0 3-0-0 3-0-0 3-0-0	3 3 3 3
1 2 3 4 5 6	Code MT1204 MT1205 MT1206 MT1207 CS1209 HS1201	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)	3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 3-0-0	3 3 3 3 2 2
1 2 3 4 5 6	Code MT1204 MT1205 MT1206 MT1207 CS1209 HS1201 MT1284	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	3-0-0 3-0-0 3-0-0 3-0-0 3-0-0 0-0-3	3 3 3 3 2 2 2
1 2 3 4 5 6	Code MT1204 MT1205 MT1206 MT1207 CS1209 HS1201 MT1284 MT1285	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 Fuel Testing Laboratory	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	3 3 3 3 2 2 2 1.5 1.5
1 2 3 4 5 6	Code MT1204 MT1205 MT1206 MT1207 CS1209 HS1201 MT1284 MT1285 MT1286	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	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	3 3 3 2 2 2 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)		1
7	PE1284	Metal Cutting Laboratory	0-0-3	1.5
8	PE1285	Machine Dynamics Laboratory	0-0-3	1.5
9	PE1286	Metrology Laboratory	0-0-3	1.5
10	PE1287	Production Practice Laboratory-I (casing, welding etc.)	0-0-3	1.5
		Summer Internship and Research Experience	(SIRE- I) *	
		Total	18-0-12	22