

GENERAL SLOT PATTERN

Day	8:30 – 9:20	9:30 – 10:20	10:30 – 11:20	11:30 – 12:20	Lunch break	14:00 – 14:50	15:00 – 15:50	16:00 – 16:50	17:00 – 17:50	18:15 – 19:45
Monday	A1	B1	C1	D1		H1	I1	J1	K1	Co- curricular Activities
Wednesday	D2	A2	B2	C2		K2	H2	I2	J2	
Friday	C3	D3	A3	B3		J3	K3	H3	I3	
Saturday	Co-curricular Activities									

Day	8:30 – 9:45	9:50 – 11:05	11:10 – 12:25	Lunch break	14:00 – 15:15	15:20 – 16:35	16:40 – 17:55	18:15 – 19:45
Tuesday	E1	F1	G1		SP1	L1	L2	Co- curricular Activities
Thursday	G2	E2	F2		SP2	M1	M2	

Category	Slot	Days	Duration/Each
Theory Core Slots	A, B, C, D	Monday, Wednesday, Friday	50 Minutes
	E, F, G	Tuesday, Thursday	75 Minutes
Theory elective slots	H, I, J, K	Monday, Wednesday, Friday	50 Minutes
Laboratory core slots	L, M	Tuesday, Thursday	75 Minutes
Laboratory elective slots	H, I, J, K	Monday, Wednesday, Friday	75 Minutes
Special lecture slots	SP1, SP2	Tuesday, Thursday	75 Minutes

Time Table Spring 2024-25

Semester II (2024 Batch)

CBE -Semester II

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	MA 102	Linear Algebra (1st Half)	3	1	0	4	B+K3	Prof. Shiv Prakash Patel Prof. Shreedevi Masuti
2	BB 201	Biomolecules	2	1	0	6	F	Prof. Bal Krishna Choube
3	ME 111	Engineering Graphics Laboratory	1	0	3	5	H1,I1,J1+H2,I2,J2+L+M+J3	Prof. Amar Gaonkar Prof. Omkar Baswaraj Bembalge Prof. Samarth S. Raut Prof. Surya Prakash Ramesh
4	ME 201	Engineering Mechanics	2	1	0	6	A	Prof. Satyapriya Gupta
5	CS 201	Data Structures and Algorithms	3	0	0	6	C	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
6	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3	L+M	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
7	ME 113	Hands on Engineering Laboratory	0	0	3	3	H1,I1,J1+H2,I2,J2+L+M	Prof. Anbukkarasi Rajendran Prof. Nikhil Hegde Prof. Rakesh Lingam Prof. Ramesh Nayaka Prof. Sairam Boggavarapu Prof. Samba Raju Chiluveru Prof. Sangamesh Deepak R Prof. Sushanta K. Sethi
8	CL 101	Introduction to chemical Engineering	3	0	0	6	D	Prof. Suvamay Jana
9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2		-
		Total Credits				39		

CIE -Semester II

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CE 101	Introduction to Civil Engineering	2	1	0	6	B	Prof. Giridhar Rajesh Bande

2	CS 201	Data Structures & Algorithms	3	0	0	6	C	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
3	CS 211	Data Structures & Algorithms Lab	0	0	3	3	L+M	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
4	MA 103	Differential Equations I (2nd Half Semester)	3	1	0	4	(D+H3)	Prof. Dhriti Ranjan Dolai Prof. Sagnik Sen
5	MA 406	Introduction to Numerical Methods (1st Half Semester)	3	1	0	4	D+F2	Amlan K Barua
6	ME 201	Engineering Mechanics	2	1	0	6	A	Prof. Satyapriya Gupta
7	ME 111	Engineering Graphics Lab	1	0	3	5	H1,I1,J1+H2,I2,J2+L+M+J3	Prof. Amar Gaonkar Prof. Omkar Baswaraj Bembalge Prof. Samarth S. Raut Prof. Surya Prakash Ramesh
8	ME 113	Hands-on Engineering Lab	0	0	3	3	H1,I1,J1+H2,I2,J2+L+M	Prof. Anbukkarasi Rajendran Prof. Nikhil Hegde Prof. Rakesh Lingam Prof. Ramesh Nayaka Prof. Sairam Boggavarapu Prof. Samba Raju Chiluveru Prof. Sangamesh Deepak R Prof. Sushanta K. Sethi
9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	1	0	0	2		
Total Number of Credits						37		

CSE -Semester II

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	MA 102	Linear Algebra (1st Half)	3	1	0	4	(B+K3)/ (D+H3)	Prof. Shiv Prakash Patel Prof. Shreedevi Masuti
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4	(B+K3)/ (D+H3)	Prof. Dhriti Ranjan Dolai Prof. Sagnik Sen
3	ME 111	Engineering Graphics Laboratory	1	0	3	5	H1,I1,J1+H2,I2,J2+L+M+J3	Prof. Amar Gaonkar Prof. Omkar Baswaraj Bembalge Prof. Samarth S. Raut Prof. Surya Prakash Ramesh
4	EE 101	Introduction to Electrical Systems and Electronics	3	0	0	6	F	Prof. Samba Raju Chiluveru Prof. Shashaank Aswatha Muttur
5	CS 201	Data Structures and Algorithms	3	0	0	6	C	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi

6	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3	L+M	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
7	PH 113	Hands On Science Laboratory - I	0	0	3	3	H1,I1,J1+H2,I2,J2+L+M	Prof. Dhriti Sundar Ghosh Prof. Nilkamal Mahanta Prof. BSBE Faculty required
8	PH 102	Electricity and magnetism	2	1	0	6	A	Prof. Dhriti Sundar Ghosh
9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	1	0	0	2		-
						Total Credits	37	

ECE -Semester II

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	MA 102	Linear Algebra (1st Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Shiv Prakash Patel Prof. Shreedevi Masuti
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Dhriti Ranjan Dolai Prof. Sagnik Sen
3	EE 204	Digital Systems	2	1	0	6	C	Prof. Nagaveni S
4	EE 214	Digital Circuits Lab	0	0	3	3	GE2	Prof. Nagaveni S
5	EE 205	Network Theory	2	1	0	6	A	Prof. Amarkumar
6	EE 229	Electronic Devices (2nd Half)	3	0	0	3	F	Prof. Vigneshwara Raja P
7	ME 111	Engineering Graphics Laboratory	1	0	3	5	H1,I1,J1+H2,I2,J2+L+M+J3	Prof. Amar Gaonkar Prof. Omkar Baswaraj Bembalge Prof. Samarth S. Raut Prof. Surya Prakash Ramesh
8	ME 113	Hands on Engineering Laboratory	0	0	3	3	H1,I1,J1+H2,I2,J2+L+M	Prof. Anbukkarasi Rajendran Prof. Nikhil Hegde Prof. Rakesh Lingam Prof. Ramesh Nayaka Prof. Sairam Boggavarapu Prof. Samba Raju Chiluveru Prof. Sangamesh Deepak R Prof. Sushanta K. Sethi
9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2		-
						Total Credits	36	

EEE -Semester II

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	MA 102	Linear Algebra (1st Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Shiv Prakash Patel Prof. Shreedevi Masuti
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Dhriti Ranjan Dolai Prof. Sagnik Sen
3	EE 204	Digital Systems	2	1	0	6	C	Prof. Nagaveni S
4	EE 214	Digital Circuits Lab	0	0	3	3	GE2	Prof. Nagaveni S
5	EE 205	Network Theory	2	1	0	6	A	Prof. Amarkumar
6	EE 229	Electronic Devices (2nd Half)	3	0	0	3	F	Prof. Vigneshwara Raja P
7	ME 111	Engineering Graphics Laboratory	1	0	3	5	H1,I1,J1+H2,I2,J2+L+M+J3	Prof. Amar Gaonkar Prof. Omkar Baswaraj Bembalge Prof. Samarth S. Raut Prof. Surya Prakash Ramesh
8	ME 113	Hands on Engineering Laboratory	0	0	3	3	H1,I1,J1+H2,I2,J2+L+M	Prof. Anbukkarasi Rajendran Prof. Nikhil Hegde Prof. Rakesh Lingam Prof. Ramesh Nayaka Prof. Sairam Boggavarapu Prof. Samba Raju Chiluveru Prof. Sangamesh Deepak R Prof. Sushanta K. Sethi
9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2		-
		Total Credits				36		

EP -Semester II

Sl. No.	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CS 201	Data Structure and Algorithms	3	0	0	6	C	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
2	EE 101	Introduction to Electrical Systems and Electronics	3	0	0	6	F	Prof. Samba Raju Chiluveru Prof. Shashaank Aswatha Mattur
3	MA 102	Linear Algebra (1st Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Shiv Prakash Patel
4	MA 103	Differential Equations - I (2nd Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Dhriti Ranjan Dolai Prof. Sagnik Sen
5	PH 102	Electricity and Magnetism	2	1	0	6	A	Prof. Dhriti Sundar Ghosh

6	ME 113	Hands on Engineering Laboratory	0	0	3	3	H1,I1,J1+H2,I2,J2+L+M	Prof. Anbukkarasi Rajendran Prof. Nikhil Hegde Prof. Rakesh Lingam Prof. Ramesh Nayaka Prof. Sairam Boggavarapu Prof. Samba Raju Chiluveru Prof. Sangamesh Deepak R Prof. Sushanta K. Sethi
7	ME 111	Engineering Graphics Laboratory	1	0	3	5	H1,I1,J1+H2,I2,J2+L+M+J3	Prof. Amar Gaonkar Prof. Omkar Baswaraj Bembalge Prof. Samarth S. Raut Prof. Surya Prakash Ramesh
8	CS 211	Data Structure & Algorithms Lab	0	0	3	3	L+M	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2		-
Second Semester Total Credits						37		

MaC -Semester II

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	MA 102	Linear Algebra (1st Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Shiv Prakash Patel Prof. Shreedevi Masuti
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Dhriti Ranjan Dolai Prof. Sagnik Sen
3	ME 111	Engineering Graphics Laboratory	1	0	3	5	H1,I1,J1+H2,I2,J2+L+M+J3	Prof. Amar Gaonkar Prof. Omkar Baswaraj Bembalge Prof. Samarth S. Raut Prof. Surya Prakash Ramesh
4	EE 101	Introduction to Electrical Systems and Electronics	3	0	0	6	F	Prof. Samba Raju Chiluveru Prof. Shashaank Aswatha Mattur
5	CS 201	Data Structures and Algorithms	3	0	0	6	C	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
6	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3	L+M	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
7	PH 113	Hands On Science Laboratory - I	0	0	3	3	H1,I1,J1+H2,I2,J2+L+M	Prof. Dhriti Sundar Ghosh Prof. Nilkamal Mahanta
8	PH 102	Electricity and magnetism	2	1	0	6	A	Prof. Dhriti Sundar Ghosh

9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2		-
		Total Credits				37		

ME -Semester II

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	MA 102	Linear Algebra (1st Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Shiv Prakash Patel Prof. Shreedevi Masuti
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Dhriti Ranjan Dolai Prof. Sagnik Sen
3	ME 111	Engineering Graphics Laboratory	1	0	3	5	H1,I1,J1+H2,I2,J2+L+M+J3	Prof. Amar Gaonkar Prof. Omkar Baswaraj Bembalge Prof. Samarth S. Raut Prof. Surya Prakash Ramesh
4	EE 101	Introduction to Electrical and Electronics Circuits	3	0	0	6	F	Prof. Samba Raju Chiluveru Prof. Shashaank Aswatha Mattur
5	CS 201	Data Structures and Algorithms	3	0	0	6	C	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
6	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3	L+M	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
7	PH 113	Hands On Science Laboratory - I	0	0	3	3	H1,I1,J1+H2,I2,J2+L+M	Prof. Dhriti Sundar Ghosh Prof. Nilkamal Mahanta
8	ME 201	Engineering Mechanics	2	1	0	6	A	Prof. Satyapriya Gupta
9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2		-
		Total Credits				37		

BS-MS -Semester II

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	MA 102	Linear Algebra (1st Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Shiv Prakash Patel Prof. Shreedevi Masuti
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4	(B+K3)/(D+H3)	Prof. Dhriti Ranjan Dolai Prof. Sagnik Sen

3	CS 201	Data Structures and Algorithms	3	0	0	6	C	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
4	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3	L+M	Prof. Kedar Khandeparkar Prof. Vijeth J Kotagi
5	PH 102	Electricity and Magnetism	2	1	0	6	A	Prof. Dhriti Sundar Ghosh
6	BB 201	Biomolecules	2	1	0	6	F	Prof. Bal Krishna Choube
7	CH 203	States of Matter (1st Half)	3	0	0	3	E	Prof. Sudhir Kumar Sahoo
8	CH 201	Organic Chemistry (2nd Half)	3	0	0	3	E	Prof. Nilkamal Mahanta
9	CH 113	Hands on Science Laboratory-II	0	0	3	3	KIH2	Prof. Koushik Saha Prof. Nilkamal Mahanta Prof. BSBE Faculty required (TBD)
10	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2		-
Total Credits							40	

M.Tech. - CSE -Semester II

S.No	C. Code	Course	L	T	P	C	Alloted Slot	Instructor
1		Elective-2				6/8		-
2		Elective-3				6/8		-
3		Elective-4				6/8		-
4		Elective-5				6		-
5		Elective-6				6		-
	HS 601	Communication Skills	P					Prof.Dileep A D
	CS 631	Seminar	0	0	4	4		-
							32-34	-

M.Tech. - EE -Semester II

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1		Elective Course	3	0	0	6		-
2		Elective Course	3	0	0	6		-
3		Elective Course	3	0	0	6		-
4		Elective Course	3	0	0	6		-
5		Elective Course	3	0	0	6		-
	HS 601	Communication Skills				P/NP	E	Prof. Gopal Krishna Kamath M

		Total Credits	30		-
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M.Tech. - ME -Semester II

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	ME 632	Mechanical Engineering Experimental Laboratory	1	0	3	5	D1+EF2	-
2		Elective Course	3	0	0	6		-
3		Elective Course	3	0	0	6		-
4		Elective Course	3	0	0	6		-
5		Elective Course	3	0	0	6		-
		Total Credits				29		-

Semester IV (2023 Batch)

CBE -Semester IV

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	ME 220	Heat Transfer	2	1	0	6	B	Prof. Surya Prakash Ramesh
2	EE 101	Introduction to Electrical Systems and Electronic	3	0	0	6	F	Prof. Samba Raju Chiluveru Prof. Shashaank Aswatha Mattur
3	MA 407	Introduction to Numerical Linear Algebra	3	1	0	4	I+K2	Prof. Amlan K Barua
4	MA 103	Differential Equations - I	3	1	0	4	(D+H3)	Prof. Dhriti Ranjan Dolai Prof. Sagnik Sen
5	BB 404	Biophysics	3	0	0	3	A	Prof. Surya Pratap Singh
6	CL 202	Reaction engineering	3	0	0	6	G	Prof. Sontti Somasekhara Goud
7	CH 201	Organic Chemistry (2nd Half)	3	0	0	3	E	Prof. Nilkamal Mahanta
8	CL 203	Mass transfer	3	0	0	6	C	Prof. Ravi C. Dutta
		Total Credits				38		-

CIE -Semester IV

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CE 202	Surveying and Geomatics	2	1	0	6	D	Prof. Aniket Vasantrya Kataware
2	CE 212	Surveying and Geomatics Laboratory	0	0	3	3	H1,I1,J1	Prof. Aniket Vasantrya Kataware
3	CE 205	Structural Analysis	2	1	0	6	C	Prof. Chinthapalli Hemanth Kumar
4	ME 218	Solid Mechanics Laboratory	0	0	3	3	M	Prof. Chinthapalli Hemanth Kumar
5	ME 224	Fluid Mechanics Laboratory	0	0	3	3	L+M	Prof. Ramjee Repaka Prof. Surya Prakash Ramesh

6	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar
7	CE 206	Water Resources Engineering	2	1	0	6	B	Prof. K V Jayakumar
		Institute Elective-I	2	1	0	6		-
		Total Credits				39		-

CSE -Semester IV

S.No	Course cod	Course name	L	T	P	C	Alloted Slot	Instructor
1	CS 202	Automata theory	3	1	0	8	G +A3	Prof. Ramchandra Phawade
2	CS 209	Artificial intelligence	3	0	0	6	D	Prof. Dileep A D
3	CS 301	Computer Architecture	3	0	0	6	B	Prof. Gayathri Ananthanarayanan
4	EE 204	Digital systems	3	0	0	6	C	Prof. Ruma Ghosh
5	EE 214	Digital Circuits Lab	3	0	0	3	L	Prof. Ruma Ghosh
6	CS 214	Artificial intelligence lab	0	0	3	3	H1,I1,J1	Prof. Dileep A D
7	CS 311	Computer Architecture lab	0	0	3	3	H2,I2,J2	Prof. Gayathri Ananthanarayanan
		Total credits				35		-

EE -Semester IV

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	EE 206	Introduction to Electrical Machines (1st Half)	3	0	0	3	B	Prof. Animesh Kumar Sahoo
2	EE 209	Introduction to Power Electronics (2nd Half)	3	0	0	3	E	Prof. Sairam Boggavarapu
3	EE 208	Engineering Electromagnetics (1st Half)	2	1	0	3	E	Prof. Sairam Boggavarapu
4	EE 223	Introduction to Power Systems (2nd Half)	2	0	2	3	B	Prof. Pratyasa Bhui
5	EE 232	Introduction to Communication Systems (1st Half)	3	0	0	3	F	Prof. Gopal Krishna Kamath M
6	EE 216	Communications Lab (2nd Half)	0	0	4	2	H1,I1,J1,K1	Prof. Gopal Krishna Kamath M
7	EE 204	Digital Systems	3	0	0	6	C	Prof. Ruma Ghosh
8	EE 214	Digital Circuits Lab	0	0	3	3	H2,I2,J2	Prof. Ruma Ghosh
9	EE 226	Control Systems and Laboratory	2	0	2	6	D1+D2+DA3	Prof. Punnag Chatterjee
10	EE 212	Devices and Circuits Lab	0	0	3	3	M	Prof. Vigneshwara Raja P
		Total Credits				35		-

EP -Semester IV

Sl. No.	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	PH 304	Statistical Physics	2	1	0	6	D	Prof. Koushik Saha
2	PH 312	General Physics Laboratory	0	0	3	3	H1,I1,J1	Prof. Santosh Kumar
3	EE 204	Digital Systems	2	1	0	6	C	Prof. Nagaveni S

4	CS 301	Computer Architecture	2	1	0	6	B	Prof. Gayathri Ananthanarayanan
5	ME 201	Engineering Mechanics	2	1	0	6	A	
6	EE 212	Devices and Circuits Laboratory	0	0	3	3	M	Prof. Vigneshwara Raja P
7	EE 214	Digital Circuits Laboratory	0	0	3	3	GE2	Prof. Nagaveni S
8	CS 311	Computer Architecture Lab	0	0	3	3	H2,I2,J2	Prof. Gayathri Ananthanarayanan
	Total Credits					36		

MaC -Semester IV

S.No	Course code	Course name	L	T	P	C	Alloted Slot	Instructor
1	CE 301	Environmental studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar
2	CS 209	Artificial intelligence	3	0	0	6	D	Prof. Dileep A D
3	CS 301	Computer Architecture	3	0	0	6	B	Prof. Gayathri Ananthanarayanan
4	CS 214	Artificial intelligence Laboratory	0	0	3	3	H1,I1,J1	Prof. Dileep A D
5	CS 311	Computer Architecture Laboratory	0	0	3	3	H2,I2,J2	Prof. Gayathri Ananthanarayanan
6	MA 220	Real Analysis	2	1	0	6	A	Prof. Veekesh Kumar
7	MA 210	Statistics	3	0	0	6	G	Prof. Debalina Chakravarty
	Total credits					36		

ME -Semester IV

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	ME 208	Mechanical Measurements	3	0	0	6	F	Prof. Sushanta K. Sethi
2	ME 202	Engineering Materials	2	1	0	6	A	Prof. Anbukkarasi Rajendran
3	ME 309	Theory of Machines	2	1	0	6	C	Prof. Sangamesh Deepak R
4	ME 220	Heat Transfer	2	1	0	6	B	Prof. Surya Prakash Ramesh
5	MA 407	Introduction to Numerical Linear Algebra (1st Half)	3	1	0	4	I+K2	Prof. Amlan K Barua
6	ME 224	Fluid Mechanics Laboratory	0	0	3	3	L+M	Prof. Ramjee Repaka Prof. Surya Prakash Ramesh
7	EE 226	Control Systems and Laboratory	2	0	2	6	D1+D2+J3K3	Prof. Punnag Chatterjee
	Total Credits					37		

BS-MS Major in Biology - Semester IV

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	BB 403	Metabolism and Bioenergetics	2	1	0	6	B	Prof. Swananda Marathe
2	BB 404	Biophysics (1st Half)	3	0	0	3	A	Prof. Surya Pratap Singh
3	BB 411	Biology Lab I	0	0	3	3	M	Prof. Surya Pratap Singh

4	BB 606	Biophysical Methods	3	0	0	3	A	Prof. Surya Pratap Singh
5		Institute Elective – I	3	0	0	6		-
6		Program Elective-I	3	0	0	6		-
7		HSS Elective-I	3	0	0	6		-
Total Credits						33		-

BS-MS Major in Chemistry - Seme - IV

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CH 308	Non-transition and Transitional Metal Chemistry	2	1	0	6	A	Prof. Kundan Kumar Singh Sagar
2	CH 310	Organic Reactions and Reagents	2	1	0	6	H	Prof. Satavisha Kayal
3	CH 309	Chemical Bonding and Symmetry	2	1	0	6	B	Prof. Mahesh Gudem
4	CH 320	Molecular Energetics and Dynamics	2	1	0	6	D	Prof. Sudhir Kumar Sahoo
5		Program Elective-I	2	1	0	6		-
6	CH 311	Chemistry laboratory-I	0	0	3	3	L	Prof. Rajeswara Rao M
Total Credits						33		

BS-MS Major in Physics- Seme - IV

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar
2	EE 229	Electronic Devices (2nd Half)	3	0	0	3	F	Prof. Vigneshwara Raja P
3	PH 322	Mathematical Physics-I	2	1	0	6	B	Prof. D Narasimha
4		Program Elective-I	2	1	0	6		-
5		HSS Elective-I	3	0	0	6		-
	PH 312	General Physics Laboratory	0	0	3	3	H1,I1,J1	Prof. Santosh Kumar
ALO								-
Total Credits						30		-

BS-MS Major in Mathematics- Seme - IV

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	MA 220	Real Analysis	2	1	0	6	A	Prof. Veekesh Kumar
2	MA 221	Group Theory	2	1	0	6	D	Prof. Shraddha Srivastava
3	MA 202	Advanced Linear Algebra	2	1	0	6	J	Prof. Shreedevi Masuti-
4		Program Elective-I				6		-
5		Program Elective-II				6		-

		Total Credits	30		-
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M.Tech. EE - Seme - IV

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	EE 708	MTech Project II				32		-
		Total Credits				32		

M.Tech. ME - Seme - IV

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	ME 667	MTech Technical Project work - Phase II				32		-
		Total Credits				32		

Semester VI (2022 Batch)

CBE-Semester VI (Yellow highlights are courses must for honors)

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CH 402	Catalysis	3	0	0	3	I	Prof. Kundan Kumar Singh Sagar
2	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar
3	EE 226	Control Systems and Laboratory	2	0	2	6	D1+D2+D3,A3	Prof. Punag Chatterjee
4		Programme elective-III	3	0	0	6		-
5		Programme elective-IV	3	0	0	6		-
6	CL 303	Scientific Presentation	0	0	3	3	B	Prof. Ravi C. Dutta
7	CL 401	Chemical Reaction Engineering-II	3	0	0	6	H	Prof. Suvamay Jana
		Total Credits				30		-

CIE - Semester VI

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CE 306	Design of Steel Structures	2	1	0	6	B	Prof. Ramesh Nayaka
2	CE 310	Sensors Technologies & Instrumentation in Civil Engineering	2	0	2	6	A+L	Prof. Somil Yadav
3	CE 308	Foundation Engineering	2	1	0	6	D	Prof. Giridhar Rajesh Bande
5	CE 309	Estimation and Costing in Civil Engineering	2	1	0	6	C	Prof. Sanatkumar P Rajamane Jain
6		Institute Elective-II	2	1	0	6		-
7		HSS Elective-I [from Basket: 1 OR 2] (Professional/Applied Ethics)	2	1	0	6		-
		Total Credits				36		-

CSE - Semester VI									
S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor	
1	CS 348	Computer networks	3	0	0	6	F	Prof. Tamal Das	
2	CS 323	Compilers	3	0	0	6	G	Prof. Achyut Mani Tripathi	
3	CS 316	Compilers lab	0	0	3	3	A2,B2,C2	Prof. Achyut Mani Tripathi	
4	CS 315	Computer networks lab	0	0	3	3	A1,B1,C1	Prof. Tamal Das	
5		HSS Elective II*	3	0	0	6		-	
6	CE 301	Environmental studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar	
7		Elective III / R&D I/II#	3	0	0	6		-	
Total credits						36		-	

EE - Semester VI									
S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor	
1	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar	
2	EE 314	Electronics Design Lab	3	0	0	6	L+A2,B2,C2	Prof. Amarkumar Prof. Saroj Mondal	
3		Elective Courses				24		-	
Total Credits						36		-	

EP - Semester VI									
S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor	
1	PH 434	Condensed Matter Physics	2	1	0	6	C	Prof. Santosh Kumar	
2	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar	
3		HSS Elective - I	3	0	0	6		-	
4	xxxx/PH 309/PH 320	Institute Elective – 1 / RnD Project-I or RnD Project- II	2	1	0	6		-	
5	PH 411	Advanced Physics Laboratory	0	0	3	3	L	Prof. Kavita Devi	
6	ME 331	Mechanics and Measurement Lab	1	0	3	5	B2+M	Prof. Keerthi M C	
7	PH 307	Seminar – 1	0	0	3	3		-	
Total Credits						35		-	

MnC - Semester VI									
S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor	

1	CS 202	Automata theory	3	1	0	8	G +A3	Prof. Ramchandra Phawade
2	MA 221	Group Theory	2	1	0	6	D	Prof. Shraddha Srivastava
3	MA 320	Introduction to Mathematical Finance 2	3	0	0	6	E	Prof. External Faculty
4		CSE Elective /Mathematics Elective/R&D project				6		-
5		HSS Elective II	3	0	0	6		-
		Total credits				32		-

ME - Semester VI

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar
2	ME 313	Kinematics and Dynamics of Machinery Laboratory	0	0	3	3	L	Prof. Tejas Prakash Gotkhindi
3	ME 315	Manufacturing processes Laboratory	0	0	3	3	M	Prof. Vyom Sharma
4	ME 316	Applied Thermodynamics Laboratory	0	0	3	3	F1,G1	Prof. Dhiraj V. Patil Prof. Hiranya Deka
5	MA 406	Introduction to Numerical Methods (1st Half)	3	1	0	4	D+F2	Prof. Amlan K Barua
6		Elective Course from Physics Department	3	0	0	6		-
7		Elective 2	3	0	0	6		-
8		Elective 3	3	0	0	6		-
		Total Credits				37		-

BS - MS Major in Biology - Semester VI

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar
2	BB 415	Bioinformatics Lab	0	0	3	3	L	Prof. Swananda Marathe
3		Program Elective	2	1	0	6		-
4		Institute Elective – III				6		-
5	BB 413	Biology Lab III	0	0	6	6	F1,G1+M	Prof. Sudhanshu Shukla
		Total Credits				27		-

BS - MS Major in Chemistry - Semester VI

S. No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar
2	CH 307	Instrumental Methods for Structure Determination	3	0	0	6	C	Prof. Nilkamal Mahanta Prof. Satavisha Kayal

3	CH 313	Chemistry laboratory-III	0	0	3	3	L	Prof. Mahesh Gudem Prof. Satavisha Kayal
4		Program Elective-V	2	1	0	3		-
5		Program Elective-VI	2	1	0	6		-
6		Institute Elective – I	3	0	0	6		-
		Total Credits				30		-

BS - MS Major in Mathematics - Semester VI

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar
	MA 305	Ordinary Differential Equations	2	1	0	6	G	Prof. Shiv Prakash Patel
	MA 901	Measure Theory	2	1	0	6	F	Prof. Dhriti Ranjan Dolai
		Program Elective-III				6		-
		HSS Elective-I	3	0	0	6		-
		Total Credits				30		-

BS - MS Major in Physics - Semester VI

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1	CE 301	Environmental Studies	3	0	0	6	E	Prof. Kundan Kumar Singh Sagar
2		Program Elective-II	2	1	0	6		-
3		Institute Elective – I	2	1	0	6		-
4		Institute Elective – II / Minor Project-I	0	0	6	6		-
5	PH 411	Advanced Physics Laboratory	0	0	3	3	L	Prof. Kavita Devi
6	EE 212	Devices and Circuit Lab	0	0	3	3	M	Prof. Vigneshwara Raja P
7		ALO						-
		Total Credits				30		-

Semester VIII (2021 Batch)

CSE - Semester VIII

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1		Elective IV				6	-	
2		Elective V				6	-	
3		Elective VI / project				6	-	
		Total credits				18	-	

EE -Semester VII & VIII

1. Student has to earn 36 credits in the fourth year.
2. Student may choose to earn zero or 6 or 12 credits through BTP/co-op project.
3. The BTP/co-op may be split in two semesters (6 credits per semester).
4. The remaining credits should be earned through Institute Elective.

EP - Semester VIII

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1		Institute Elective 5				6	-	
2		Institute Elective 6				6	-	
3		Institute Elective 7/BTP - II				6	-	
Total credits						18	-	

ME - Semester VIII

S.No	Course Code	Course Name	L	T	P	C	Alloted Slot	Instructor
1		Elective				6	-	
2		Elective				6	-	
3		Elective / BTP - II				6	-	
Total credits						18	-	

All Electives for Spring 2024-25

S.No.	Course code	Course Name	L	T	P	C	Slot	Course Instructor
1	BB 410	Bio-separations	3	0	0	6	F	Prof. Subhash Mehto
2	BB 701	Neurobiology	2	1	0	6	C	Prof. Swananda Marathe
3	BB 805	Molecular Biology of Cancer	3	0	0	6	E	Prof Sudhanshu Shukla
4	BB 810	Research Philosophy	3	0	0	6	I	Prof. Narayan S Punekar
5	BB 915	Molecular Biology Techniques and Applications	3	0	0	6	A	Prof. Subhash Mehto
6	CE 601	Pavement Engineering	2	1	0	6	As per Instructor	Prof. Aniket V. Kataware
7	CE 602	Geosynthetic Engineering	2	1	0	6	As per Instructor	Prof. Giridhar Rajesh Bande
8	CE 603	3D Concrete Printing Technology	2	0	2	6	As per Instructor	Prof. Ramesh Nayaka
9	CE 605	Advanced Soil Mechanics	2	1	0	6	As per Instructor	Prof. Amarnath Hegde
10	CE 606	Vibrations and Structural Dynamics	2	1	0	6	As per Instructor	Prof. Ch. Hemanth Kumar
11	CE 607	Advanced Concrete Structures	2	1	0	6	As per Instructor	Prof. Ch. Hemanth Kumar
12	CH 307	Instrumental Methods for Structure Determination	3	0	0	6	C	Prof. Nilkamal Mahanta
13	CH 406	Material Science and Polymer Chemistry	3	0	0	6	G	Prof. Rajeswara Rao M.
14	CH 406	Material Science and Polymer Chemistry	3	0	0	6	G	Prof. Rajeswara Rao M.
15	CH 903	Interpretative NMR Spectroscopy and Mass Spectrometry	3	0	0	6	As per Instructor	Prof. Nilkamal Mahanta
16	CH 916	Optical and Electronic Properties of Pi-conjugated Compounds	3	0	0	6	As per Instructor	Prof. Rajeswara Rao M.
17	CH 919	Advanced Computational Chemistry	3	0	0	6	As per Instructor	Prof. Sudhir Kumar Sahoo
18	CL 801	Computational Techniques for Multiphase Flows	3	0	0	6	As per Instructor	Dr. Sontti Somasekhara Goud
19	CS 309	Research and Development Project	0	0	6	6	As per Instructor	
20	CS 320	Research and Development Project II	0	0	6	6	As per Instructor	
21	CS 405	B.Tech Project-CSE	0	0	6	6	As per Instructor	
22	CS 409	B.Tech Project-CSE - II	0	0	6	6	As per Instructor	
23	CS 410	Parallel Computing	3	0	0	6	J	Prof.Nikhil Hegde
24	CS 438	Natural Language Processing	3	0	0	6	K	Prof.Konjengbam Anand
25	CS 603	Approximation algorithms	3	0	0	6	I	Prof.Sandeep R.B
26	CS 426	Blockchains	3	0	0	6	H	Prof.Siba Narayan Swain
27	CS 608	FPGA for communication networks prototyping	3	0	0	6	I	Prof.Koteswararao Kondepu
28	CS 632	Runtime Verification	3	0	0	6	K	Prof.Rajshekar K
29	CS 707	Advanced Topics in Deep Learning	3	0	2	8	H + E2,F2	Prof.Vandana Bharti
30	EE 331	Research and Development Project	0	0	6	6	Not needed	Prof.Samba Raju Chiluveru
31	EE 332	Project in Machine Learning	0	0	6	6	Not needed	Prof.Samba Raju Chiluveru
32	EE 333	Research and Development Project II	0	0	6	6	Not needed	Prof.Samba Raju Chiluveru
34	EE 407	B. Tech. Project EE	0	0	6	6	Not needed	Prof.Samba Raju Chiluveru
35	EE 423	B. Tech. Project EE II	0	0	6	6	Not needed	Prof.Samba Raju Chiluveru
36	EE 432	Information theory	3	0	0	6	J	Prof. Bharath B. N
37	EE 606	Pattern Recognition and Machine Learning	3	0	0	6	K (S1)	Prof. Bharath B. N
37	EE 606	Pattern Recognition and Machine Learning	3	0	0	6	K (S1)	Prof. Naveen M B
38	EE 608	Wireless Communication	3	0	0	6	G	Prof. Rajshekhar V Bhat
39	EE 611	Neural networks and deep learning (NNDL) Laboratory	0	0	3	3	A2+B2+C2	Prof. Rahul Jashvantbhai Pandya

40	EE 612	Pattern Recognition and Machine Learning (PRML) Laboratory	0	0	3	3	M (S1)	Prof. Naveen M B
40	EE 612	Pattern Recognition and Machine Learning (PRML) Laboratory	0	0	3	3	M (S1)	Prof. Bharath B. N
42	EE 617	Power System Simulation Lab	0	0	3	3	M (S1)	Prof. Animesh Kumar Sahoo
43	EE 617	Power System Simulation Lab	0	0	3	3	M (S1)	Prof. Pratyasa Bhui
44	EE 620	Neural Networks and Deep Learning	3	0	0	6	G	Prof. Rahul Jashvantbhai Pandya
46	EE 623	Advanced Power Electronics and Drives	3	0	0	6	H	Prof. Abhijit Kshirsagar
47	EE 624	Optimization Theory and Algorithms	3	0	0	6	H	Prof. Naveen M B
48	EE 626	VLSI Technology	3	0	0	6	D	Prof. Naveen Kadayinti
49	EE 633	Mixed signal VLSI Design	3	0	0	6	G	Prof. Naveen Kadayinti
50	EE 656	VLSI Testing and Testability	3	0	0	6	J	Prof. Saroj Mondal
51	EE 657	Introduction to HIL Testing Methods	1	0	1	3	F2,G2 (S1)	Prof. Abhijit Kshirsagar
52	EE 657	Introduction to HIL Testing Methods	1	0	1	3	F2,G2 (S1)	Prof. Animesh Kumar Sahoo
53	EE 691	Design of Photo Voltaic Systems	2	0	2	6	J+L	Prof. B Satish Naik
54	EE 694	Detection and Estimation Theory	3	0	0	6	F	Prof. Ameer K Mulla
55	EE 698	Computer Vision and Advanced Digital Image Processing	3	0	0	6	J	Prof. Shashaank Aswatha Mattur
56	EE 701	Power Semiconductor Devices	3	0	0	6	I	Prof. Vigneshwara Raja P
57	EE 705	Seminar	0	0	4	4	Not needed	Prof. Samba Raju Chiluveru
58	EE 708	M.Tech. Project - II	0	0	32	32	Not needed	Prof. Samba Raju Chiluveru
60	EE 715	Modelling and Control of Inverter-based Resources for Grid Integration	3	0	0	6	I (S1)	Prof. Animesh Kumar Sahoo
61	EE 715	Modelling and Control of Inverter-based Resources for Grid Integration	3	0	0	6	I (S1)	Prof. Pratyasa Bhui
62	HS 404	Applied Ethics	3	0	0	6	G	Prof. Jolly Thomas
63	HS 406	Introduction to Game Theory	3	0	0	6	G	Prof. Gopal Sharan Parashari
64	HS 420	Introduction to Literature	3	0	0	6	G	Prof. Ridhima Tewari
66	HS 429	International Finance	3	0	0	6	G	Prof. Mohana Rao Balaga
67	HS 601	Communication Skills	P/N				E	Prof. Dileep A D
68	HS 601	Communication Skills	P				P/NP E	Prof. Gopal Krishna Kamath M
69	HS 602	Literary Theory and Criticism	3	0	0	6	As per Instructor	Prof. Ridhima Tewari
70	HS 603	Interdisciplinary Approaches to Literary Research	3	0	0	6	As per Instructor	Prof. Ridhima Tewari
71	HS 604	Econometrics	3	0	0	6	As per Instructor	Prof. Mohana Rao Balaga
72	HS 607	Research Methodology in Humanities and Social Sciences	3	0	0	6	As per Instructor	Prof. Debalina Chakravarty
73	HS 608	Principles of Microeconomics	3	0	0	6	As per Instructor	Prof. Gopal Sharan Parashari
74	HS 609	Applied Game Theory	3	0	0	6	As per Instructor	Prof. Gopal Sharan Parashari
75	HS 624	Research Methodology in Philosophy	3	0	0	6	As per Instructor	Prof. Jolly Thomas
76	HS 625	Problems in Applied ethics	3	0	0	6	As per Instructor	Prof. Jolly Thomas
77	HS 911	Seminar II				4	As per Instructor	Prof. Jolly Thomas
78	HS403	Happiness and Well-being	3	0	0	6	I	Prof. Bhalachandra L Tembe
79	HS910	Seminar				4	As per Instructor	Prof. Mohana Rao Balaga
80	MA 320	Introduction to Mathematical Finance-II	3	0	0	6	B	External
81	MA 704	Topics in Algebraic Combinatorics					As per Instructor	Prof. Shraddha Srivastava
82	MA 705	Introduction to Reflection Groups					As per Instructor	Prof. Shraddha Srivastava
83	ME 323	Introduction to Aerospace Engineering	3	0	0	6	C	Group Captain Dr. Prahlad Joshi
84	ME 329	Research and Development Project	0	0	6	6	As per Instructor	

85	ME 330	Research and Development Project II	0	0	6	6	As per Instructor	
86	ME 332	Basic Operation Research	3	0	0	3	B	Prof.Omkar Baswaraj Bembalge
87	ME 333	Human Factors in Automotive Design	1.5	0	0	3	B	Prof.Pradeep Yammiyavar
88	ME 405	B.Tech. Project-ME	0	0	6	6	As per Instructor	
89	ME 408	Geometric Modeling and Computer Graphics	2	0	2	6	H1+H3; A2+B2	Prof.Samarth S. Raut
90	ME 410	Computer Integrated Manufacturing	3	0	0	6	A	Prof.Vyom Sharma
91	ME 424	B.Tech Project ME - II	0	0	6	6	As per Instructor	
92	ME 425	Additive Manufacturing	3	0	0	6	C	Prof.Somashekara M A
93	ME 428	Refrigeration and Air-conditioning	3	0	0	6	B	Prof.Ramjee Repaka
94	ME 444	Aerodynamics	3	0	0	6	A	Prof.Keerthi M C
95	ME 449	Bio Energy Conversion	3	0	0	6	H	Prof.Sreepathi L K
96	ME 603	Advanced Finite Element Methods	3	0	0	6	A	Prof.Amar Gaonkar
97	ME 604	Multiphase Flow	3	0	0	6	H	Prof.Hiranya Deka
98	ME 626	Experimental Methods in Thermal and Fluids Engineering	3	0	0	6	C	Prof.Sudheer Siddapureddy
99	ME 629	Fundamentals of Acoustics	3	0	0	6	J	Prof.Meenatchidevi Murugesan
100	ME 631	Metal Forming and Plasticity	3	0	0	6	J	Prof.Rakesh Lingam
101	ME 632	Mechanical Engineering Experimental Laboratory	1	0	3	5	D1 + E2,F2	Prof.Amar Gaonkar, Prof.Satyapriya Gupta, Prof.Meenatchidevi Murugesan
102	ME 646	Fracture Mechanics	3	0	0	6	B	Prof.Tejas Prakash Gotkhindi
103	ME 648	Design and Manufacturing of composites	3	0	0	6	H	Prof.Somashekara M A, Prof.Tejas Prakash Gotkhindi
104	ME 655	Fire Safety Engineering	2	0	2	6	A	Prof.Sudheer Siddapureddy
105	ME 669	Computational Gasdynamics	3	0	0	6	B	Prof.Dhiraj V. Patil
106	PH 309	Research and Development Project-I					As per Instructor	Prof. Koushik Saha
107	PH 320	Research and Development Project-II				6	As per Instructor	Prof. Koushik Saha
108	PH 321	Minor Project-I	0	0	6	6	As per Instructor	Prof. R Prabhu
109	PH 424	Photonics	2	1	0	6	I	Prof. Kavita Devi
110	PH 426	Special Theory of Relativity	2	1	0	6	H	Prof. D Narasimha
111	PH 432	B. Tech. Project-EP-I					As per Instructor	Prof. Dhriti Sundar Ghosh
112	PH 433	B. Tech. Project-EP-II					As per Instructor	Prof. Santosh Kumar
113	PH 604	Research Seminar	0	0	4	4	As per Instructor	Prof. R Prabhu
114	PH 708	Superconductivity and Magnetism	2	1	0	6	As per Instructor	Prof. Santosh Kumar
115	PH 709	Quantum Computation	2	1	0	6	J	Prof. R Prabhu
116	PH 802	Quantum Information Theory	2	1	0	6	As per Instructor	Prof. R Prabhu