

**BAPATLA ENGINEERING COLLEGE :: LIBRARY**  
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**Phase :: I & II**

**Aerospace Engineering :-**

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1	101101001	Aerospace Engineering	Introduction to Aerospace Propulsion	Prof. A M Pradeep ,Prof. Bhaskar Roy	2	40	IIT Bombay	34.9
2	101101002	Aerospace Engineering	Jet Aircraft Propulsion	Prof. Bhaskar Roy,Prof. A M Pradeep	2	42	IIT Bombay	29.2
3	101101058	Aerospace Engineering	Turbo machinery Aerodynamics	Prof. A M Pradeep ,Prof. Bhaskar Roy	2	40	IIT Bombay	20.8
4	101104013	Aerospace Engineering	Foundation of Scientific Computing	Prof. Tapan K. Sengupta	2	40	IIT Kanpur	7.85
5	101104015	Aerospace Engineering	Instability and Transition of Fluid Flows	Prof. Tapan K. Sengupta	2	39	IIT Kanpur	16.6
6	101104017	Aerospace Engineering	Introduction to Helicopter Aerodynamics and Dynamics	Prof. A.R. Manjunath,Prof.C. Venkatesan	2	26	IIT Kanpur	15.4
7	101106042	Aerospace Engineering	Flight Dynamics II (Stability)	Dr. Nandan Kumar Sinha	2	41	IIT Madras	16.7
8	101108047	Aerospace Engineering	Advanced Control System Design for Aerospace Vehicles	Dr. Radhakant Padhi	2	40	IISc Bangalore	18.7
9	101108057	Aerospace Engineering	Optimal Control, Guidance and Estimation.	Dr. Radhakant Padhi	2	40	IISc Bangalore	10.6
10	101105024	Aerospace Engineering	High Speed Aero Dynamics	Dr. K.P. Sinhamahapatra	2	40	IIT Kharagpur	11.3
11	101105030	Aerospace Engineering	Space Flight Mechanics	Dr. Manoranjan Sinha	2	45	IIT Kharagpur	12.9
12	101105059	Aerospace Engineering	Introduction to Aerodynamics	Dr. K.P. Sinhamahapatra	2	46	IIT Kharagpur	14.4
								<b>209.35</b>

**Biotechnology :-**

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1	102101003	Biotechnology	Biomathematics	Dr. Ranjith Padinhateeri	2	39	IIT Bombay	28.2
2	102101007	Biotechnology	Proteomics: Principles and Techniques	Prof. Sanjeeva Srivastava	2	40	IIT Bombay	33.7
3	102106026	Biotechnology	Thermodynamics	Prof. G.K. Suraishkumar	2	40	IIT Madras	16.6
								<b>78.5</b>

**Chemical Engineering :-**

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1	103103031	Chemical Engineering	Heat Transfer	Prof. A.K. Ghoshal	2	40	IIT Guwahati	19.9
2	103104044	Chemical Engineering	Fluid Mechanics	Dr. V. Shankar	2	40	IIT Kanpur	14.1
3	103104046	Chemical Engineering	Mass Transfer II	Prof. Nishith Verma	2	40	IIT Kanpur	15.8

4	103105054	Chemical Engineering	Biochemical Engineering	Dr. Rintu Banerjee,Dr. Saikat Chakraborty	2	40	IIT Kharagpur	8.47
5	103105059	Chemical Engineering	Multiphase Flow	Prof. Gargi Das,Prof. P.K. Das	2	40	IIT Kharagpur	10.6
6	103105061	Chemical Engineering	Novel Separation Processes	Prof. S. De	2	41	IIT Kharagpur	18.8
7	103105066	Chemical Engineering	Instability and Patterning of Thin Polymer Films	Dr. R. Mukherjee	2	40	IIT Kharagpur	11.0
8	103105106	Chemical Engineering	Advanced Mathematical Techniques in Chemical Engineering	Prof. S. De	2	41	IIT Kharagpur	11.1
9	103106073	Chemical Engineering	Computational Fluid Dynamics	Prof. Sreenivas Jayanti	2	47	IIT Madras	20.8
10	103106074	Chemical Engineering	Computational Techniques	Dr. Niket S.Kaisare	2	40	IIT Madras	19.0
11	103106103	Chemical Engineering	Particle Characterization (PG)	Dr. R. Nagarajan	2	40	IIT Madras	15.2
12	103108097	Chemical Engineering	Chemical Reaction Engineering	Prof. Jayant M Modak	2	40	IISc Bangalore	15.6
13	103108098	Chemical Engineering	Fundamentals of Transport Processes	Prof. V. Kumaran	2	40	IISc Bangalore	18.5
14	103108100	Chemical Engineering	Modern Instrumental Methods of Analysis	Dr. J.R. Mudakavi	2	43	IISc Bangalore	19.8
15	103105057	Chemical Engineering	Microscale Transport Processes	Prof. S. Dasgupta,Dr. Somnath Ganguly	2	40	IIT Kharagpur	11.0
16	103103034	Chemical Engineering	Mass Transfer Operations I	Dr. B. Mandal	2	39	IIT Guwahati	13.6
17	103104050	Chemical Engineering	Plant wide Control of Chemical Processes	Dr. Nitin Kaistha	2	41	IIT Kanpur	15.8
								<b>259.07</b>

### Chemistry and Biochemistry:-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		Chemistry and Biochemistry	Bio chemistry – I	Prof.	1	28	IIT Madras	7.11
2		Chemistry and Biochemistry	Engineering chemistry – I	Prof.K.Mangala Sunder	1	10	IIT Madras	2.57
3	104104066	Chemistry and Biochemistry	Advance Analytical Course	Dr. Padma S Vankar	2	40	IIT Kanpur	12.1
4	104108055	Chemistry and Biochemistry	Essentials in Immunology	Dr. R. Manjunath,Dr. Dipankar Nandi,	2	40	IISc Bangalore	10.5
5	104105038	Chemistry and Biochemistry	Organic photochemistry and per cyclic reactions	Dr. N.D. Pradeep Singh	2	40	IIT Kharagpur	10.6
6	104105031	Chemistry and Biochemistry	Bio-inorganic chemistry	Prof. D. Ray	2	40	IIT Kharagpur	11.7
7	104105041	Chemistry and Biochemistry	Rate processes	Dr. M. Halder	2	40	IIT Kharagpur	10.9
8	104105033	Chemistry and Biochemistry	Co-ordination chemistry (chemistry of transition elements)	Prof. D. Ray	2	40	IIT Kharagpur	9.52
9	104108056	Chemistry and Biochemistry	Eukaryotic Gene Expression - basics and benefits	Prof. P.N. Rangarajan	2	40	IISc Bangalore	19.1
								<b>94.1</b>

### Civil Engineering:-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		Civil Engineering	Fluid Mechanics	Prof. T.I.Eldho	1	15	IIT Bombay	3.45

2		Civil Engineering	Pre stressed Concrete Structures	Prof. Amlan Kumar Sengupta	1	40	IIT Madras	5.31
3		Civil Engineering	Structural Analysis – II	Prof. Sudhir Kumar	1	40	IIT Kharagpur	4.93
4		Civil Engineering	Building Materials and Construction	Prof. P.Bhattacharjee	1	41	IIT Delhi	11.6
5		Civil Engineering	Engineering Geology	Prof. Debasis Roy	1	40	IIT Kharagpur	11.00
6		Civil Engineering	Environmental Air Pollution	Prof. Mukesh Sharma	1	39	IIT Kanpur	6.92
7		Civil Engineering	Performance of Marine Vehicles Ay Sea?	Prof. S.C.Misra	1	40	IIT Kharagpur	10.3
8		Civil Engineering	Strength of Materials	Prof. S.K.Bhattacharyya	1	40	IIT Kharagpur	11.3
9		Civil Engineering	Surveying	Prof. Bharat Lohani	1	40	IIT Kanpur	6.13
10		Civil Engineering	Water Resource Engineering	Prof. Mohapatra	1	29	IIT Kanpur	3.47
11	105101005	Civil Engineering	Soil Dynamics	Dr. Deepankar Choudhury	2	36	IIT Bombay	18.0
12	105104131	Civil Engineering	Geotechnical Measurements & Explorations	Dr. Nihar Ranjan Patra	2	37	IIT Kanpur	10.9
13	105101134	Civil Engineering	Geotechnical Earthquake Engineering	Dr. Deepankar Choudhury	2	43	IIT Bombay	36.8
14	105105039	Civil Engineering	Advanced Foundation Engineering	Dr. Kousik Deb	2	37	IIT Kharagpur	11.0
15	105103021	Civil Engineering	Advanced Hydraulics	Dr. Suresh A Kartha	2	37	IIT Guwahati	21.5
16	105101010	Civil Engineering	Watershed Management	Dr. T.I. Eldho	2	36	IIT Bombay	40.0
17	105105045	Civil Engineering	Probability Methods in Civil Engineering	Dr. Rajib Maity	2	37	IIT Kharagpur	18.1
18	105106050	Civil Engineering	Advanced Structural Analysis	Prof. Devdas Menon	2	36	IIT Madras	17.1
19	105106051	Civil Engineering	Finite Element Analysis	Dr. B.N. Rao	2	35	IIT Madras	26.7
20	105106058	Civil Engineering	Urban transportation planning	Dr. V. Thamizh Arasan	2	36	IIT Madras	18.9
21	105108075	Civil Engineering	Ground Improvement Techniques	Dr. G.L. Sivakumar Babu	2	40	IISc Bangalore	10.2
22	105108079	Civil Engineering	Stochastic Hydrology	Prof. P.P. Mujumdar	2	40	IISc Bangalore	18.7
23	105108080	Civil Engineering	Stochastic Structural Dynamics	Prof. C.S. Manohar	2	40	IISc Bangalore	18.5
24	105108130	Civil Engineering	Water Resources Systems : Modeling Techniques & Analysis	Prof. P.P. Mujumdar	2	40	IISc Bangalore	19.0
25		Civil Engineering	Water and waste water engineering	Prof.B.S.Murthy	1	40	IIT Madras	10.2
								<b>370.01</b>

### Computer Science & Engineering :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		Computer Science & Engineering	Artificial Intelligence	Prof. P.Dasgupta	1	28	IIT Kharagpur	7.51
2		Computer Science & Engineering	Computer Graphics	Prof. Sukhendu Das	1	43	IIT Madras	10.5
3		Computer Science & Engineering	Discrete Mathematical Structures	Prof.Kamala Krithivasan	1	40	IIT Madras	10.0
4		Computer Science & Engineering	Introduction to Computer Graphics	Prof. Prem K.Kalra	1	35	IIT Delhi	8.13
5		Computer Science & Engineering	Power System Generation Transmission and Distribution	Prof.D.P.Kothari	1	31	IIT Delhi	7.18

6		Computer Science & Engineering	System Analysis and Design	Prof.V.Rajaraman	1	40	IISc Bangalore	10.4
7		Computer Science & Engineering	Computer Architecture	Prof. Anshul Kumar	1	38	IIT Delhi	8.95
8		Computer Science & Engineering	Computer Networks	Prof. Sujoy Ghosh	1	40	IIT Kharagpur	11.2
9		Computer Science & Engineering	Computer Organization	Prof. S.Raman	1	33	IIT Madras	7.55
10		Computer Science & Engineering	Data Structures & Algorithms	Prof. Naveen Garg	1	36	IIT Delhi	9.24
11		Computer Science & Engineering	Database Management System	Dr.S.Srinath	1	43	IIT Masras	11.3
12		Computer Science & Engineering	Design and Analysis of Algorithm	Prof. Ranade	1	34	IIT Bombay	8.26
13		Computer Science & Engineering	Internet Technologies	Prof.Indranil Sengupta	1	40	IIT Kharagpur	11.2
14		Computer Science & Engineering	Introduction to Problem Solving and Programming	Prof.D.Gupta	1	24	IIT Kanpur	0.90
15		Computer Science & Engineering	Programming Languages	Prof.S.Arun Kumar	1	40	IIT Delhi	9.76
16	106103116	Computer Science & Engineering	Design Verification and Test of Digital VLSI Circuits	Prof. Jatindra Kumar Deka,Dr. Santosh Biswas	2	44	IIT Guwahati	24.9
17	106104119	Computer Science & Engineering	Biometrics	Prof. Phalguni Gupta	2	26	IIT Kanp	10.7
18	106108056	Computer Science & Engineering	Numerical Optimization	Dr. Shirish K. Shevade	2	41	IISc Bangalore	10.3
19	106102011	Computer Science & Engineering	Computational Geometry	Prof. Sandeep Sen	2	34	IIT Delhi	25.3
20	106105031	Computer Science & Engineering	Cryptography and Network Security	Dr. Debdeep Mukhopadhyay	2	36	IIT Kharagpur	18.0
21	106105034	Computer Science & Engineering	Low Power VLSI Circuits & Systems	Prof. Ajit Pal	2	36	IIT Kharagpur	18.3
22	106105036	Computer Science & Engineering	Real Time Systems	Prof. Rajib Mall	2	36	IIT Kharagpur	8.08
23	106106048	Computer Science & Engineering	Performance Evaluation of Computer Systems	Prof. Krishna Moorthy Sivalingam	2	35	IIT Madras	16.5
24	106106049	Computer Science & Engineering	Theory of Automata, Formal Languages and Computation	Prof. Kamala Krithivasan	2	36	IIT Madras	18.8
25	106108052	Computer Science & Engineering	Compiler Design	Prof. Y.N. Srikanth	2	50	IISc Bangalore	17.1
26	106108054	Computer Science & Engineering	Graph Theory	Dr. L. Sunil Chandran	2	40	IISc Bangalore	18.5
27	106108055	Computer Science & Engineering	High Performance Computing	Prof. Mathew Jacob	2	41	IISc Bangalore	15.3
								<b>333.86</b>

### Electrical & Engineering :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		Electrical Engineering	Basic Electrical Technology	Prof.L.Umanand	1	39	IISc Bangalore	10.2
2		Electrical Engineering	Circuit Theory	Prof.S.C.Dutta Roy	1	51	IIT Delhi	12.1
3		Electrical Engineering	Electromagnetic Fields	Prof.Harishankar Ramachandran	1	42	IIT Madras	10.7
4		Electrical Engineering	Embedded Systems	Prof.Santanu Chaudhary	1	37	IIT Delhi	9.39
5		Electrical Engineering	Power Electronics	Prof.Kishore Chatterjee	1	37	IIT Bombay	7.53
6		Electrical Engineering	Transmission Lines and EM Waves	Prof.R.K.Shevgaonkar	1	43	IIT Bombay	9.89

7		Electrical Engineering	Analog ICs	Prof.K.Radhakrishna Rao	1	28	IIT Madras	6.02
8		Electrical Engineering	Digital Integrated Circuits	Prof.Amitava Dasgupta	1	40	IIT Madras	9.19
9		Electrical Engineering	Electronics for Analog Signal Processing I	Prof.K.Radhakrishna Rao	1	38	IIT Madras	9.54
10		Electrical Engineering	Electronics for Analog Signal Processing II	Prof. K.Radhakrishna Rao	1	39	IIT Madras	9.15
11		Electrical Engineering	Industrial automation and control ?	Prof.S.Sen	1	40	IIT Kharagpur	11.0
12		Electrical Engineering	Industrial Instrumentation	Prof.Alok Barua	1	40	IIT Kharagpur	11.4
13		Electrical Engineering	Intelligent System and Control	Prof.Laxmidhar Behera	1	32	IIT Kanpur	6.05
14		Electrical Engineering	Networks and Systems	Prof.V.G.K.Murti	1	50	IIT Madras	11.5
15		Electrical Engineering	Network Signal and systems	Prof.T.K.Basu	1	36	IIT Kharagpur	10.1
16		Electrical Engineering	Power system analysis	Prof.A.K.Sinha	1	40	IIT Kharagpur	11.3
17	108101004	Electrical Engineering	Power System Dynamics and Control	Dr. A.M. Kulkarni	2	45	IIT Bombay	40.6
18	108103007	Electrical Engineering	Advanced Control Systems	Prof. S. Majhi	2	36	IIT Guwahati	16.9
19	108104013	Electrical Engineering	High Voltage DC Transmission	Dr. S.N. Singh	2	37	IIT Kanpur	15.6
20	108108031	Electrical Engineering	An Introduction to Electronics Systems Packaging	Prof. G.V. Mahesh	2	42	IISc Bangalore	19.9
								<b>248.06</b>

### Electronics & Communication & Engineering :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		Electronics & Communication Engg.	Digital circuits and systems	Prof.S.Srinivasan	1	40	IIT Madras	9.07
2		Electronics & Communication Engg.	Digital signal processing	Prof.S.C.Dutta Roy	1	43	IIT Delhi	10.8
3		Electronics & Communication Engg.	Digital VLSI systems design	Prof.S.Srinivasan	1	55	IIT Madras	9.71
4		Electronics & Communication Engg.	High speed devices	Prof.K.N.Bhat	1	41	IIT Madras	10.1
5		Electronics & Communication Engg.	Solid state devices	Prof.S.Karmalkar	1	42	IIT Madras	11.1
6		Electronics & Communication Engg.	Wireless communication	Prof. Ranjan Bose	1	39	IIT Delhi	7.81
7		Electronics & Communication Engg.	Control Engineering	Prof. S.D.Agashe	1	47	IIT Bombay	12.3
8		Electronics & Communication Engg.	Digital communication	Prof. Bikash Kumar Dey	1	32	IIT Bombay	8.33
9		Electronics & Communication Engg.	MEMS and Microsystems	Prof. Santiram Kal	1	32	IIT Kharagpur	9.16
10		Electronics & Communication Engg.	Power electronics	Prof.Kishore Chatterjee	1	43	IIT Bombay	11.2
11		Electronics & Communication Engg.	Power system operations & control ?	Prof. S.M.Singh	1	35	IIT Kanpur	4.79
12		Electronics & Communication Engg.	Probability and random variables	Prof.Mrityunjoy Chakraborty	1	40	IIT Kharagpur	11.0
13	117104099	Electronics & Communication Engg.	Advanced 3G and 4G Wireless Mobile Communications	Prof. Aditya K. Jagannatham	2	40	IIT Kanpur	16.9
14	117101001	Electronics & Communication Engg.	Adv. Digital Signal Processing - Multirate and wavelets	Prof. V.M. Gadre	2	50	IIT Bombay	27.0

15	117101002	Electronics & Communication Engg.	Advanced Optical Communication	Prof. R.K. Shevgaonkar	2	41	IIT Bombay	23.3
16	117108038	Electronics & Communication Engg.	Circuits for Analog System Design	Prof. M.K. Gunasekaran	2	40	IISc Bangalore	18.8
17	117108044	Electronics & Communication Engg.	Error Correcting Codes	Prof. P. Vijay Kumar	2	42	IISc Bangalore	19.2
18	117108048	Electronics & Communication Engg.	Pattern Recognition	Prof. P.S. Sastry	2	41	IISc Bangalore	11.4
								<b>231.97</b>

### Humanities and Social Sciences :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1	109104035	Humanities and Social Sciences	International Economics	Dr. Somesh K. Mathur	2	43	IIT Kanpur	9.89
2	109101017	Humanities and Social Sciences	Understanding Creativity and Creative Writing	Prof. Neelima Talwar	2	41	IIT Bombay	27.4
3	109104074	Humanities and Social Sciences	Introduction to Sociology	Prof. A.K. Sharma	2	41	IIT Kanpur	9.72
4	109104031	Humanities and Social Sciences	Communication Skills	Dr. T. Ravichandran	2	40	IIT Kanpur	11.8
5	109104073	Humanities and Social Sciences	Macro Economics	Prof.Surajit Sinha	2	22	IIT Kanpur	7.67
6	109101004	Humanities and Social Sciences	Contemporary Issues in Philosophy of Mind & Cognition	Dr. Ranjan K.Panda,Dr. Rajakishore Nath	2	42	IIT Bombay	29.4
7	109103019	Humanities and Social Sciences	Cultural Studies	Dr. Liza Das	2	40	IIT Guwahati	21.6
8	109103021	Humanities and Social Sciences	Game Theory and Economics	Dr. Debarshi Das	2	40	IIT Guwahati	21.0
9	109104045	Humanities and Social Sciences	Population and Society	Prof. A.K. Sharma	2	40	IIT Kanpur	8.51
10	109106053	Humanities and Social Sciences	Contemporary Literature	Dr. Aysha Iqbal Viswamohan	2	40	IIT Madras	10.2
11	109106058	Humanities and Social Sciences	History of Economic Theory	Prof. S.S.SivaKumar	2	36	IIT Madras	14.6
12	109106059	Humanities and Social Sciences	Indian Philosophy	Dr. Satya Sundar Sethy	2	42	IIT Madras	13.6
13	109106079	Humanities and Social Sciences	Introduction to Film Studies	Dr. Aysha Iqbal Viswamohan	2	40	IIT Madras	15.8
								<b>201.19</b>

### Management:-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		Management	Concept management & evaluation of management thought	Prof.K.B.Akhilesh	1	40	IISc Bangalore	10.2
2	110105054	Management	Consumer Behavior	Dr. Sangeeta Sahney	2	40	IIT Kharagpur	11.1
3	110102058	Management	Organization of Engineering Systems and Human Resources Management	Prof. Vinayshil Gautam	2	38	IIT Delhi	28.8
4	110101005	Management	Managerial Economics	Dr. Trupti Mishra	2	40	IIT Bombay	34.4
5	110105033	Management	Organizational Behavior	Dr. Susmita Mukhopadhyay	2	41	IIT Kharagpur	11.8
6	110105057	Management	International Finance	Dr. Arun K. Misra	2	40	IIT Kharagpur	10.8

7	110104055	Management	Strategic Marketing - Contemporary Issues	Prof. Jayanta Chatterjee	2	37	IIT Kanpur	7.54
8	110102016	Management	Organization Management	Prof. Vinayshil Gautam	2	40	IIT Delhi	15.6
9	110105030	Management	Econometric Modeling	Dr. Rudra P. Pradhan	2	40	IIT Kharagpur	18.1
10	110105035	Management	Security Analysis and Portfolio Management	Dr. Chandra Sekhar Mishra, Dr. Jitendra Mahakud	2	40	IIT Kharagpur	18.5
11	110105039	Management	Six Sigma	Prof. Tapan P. Bagchi	2	40	IIT Kharagpur	8.22
12	110108047	Management	Strategic Management	Prof. R. Srinivasan	2	37	IISc Bangalore	15.4
								<b>190.46</b>

### Mathematics:-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		Mathematics	Numerical methods and programming	Prof.S.R.K.Iyengar	1	38	IIT Delhi	9.75
2		Mathematics	Mathematics – I	Prof.Inder K.Rana	1	32	IIT Bombay	3.36
3	111102014	Mathematics	Stochastic Processes	Dr. S. Dharmaraja	2	42	IIT Delhi	22.9
4	111105043	Mathematics	Statistical Inference	Prof. Somesh Kumar	2	40	IIT Kharagpur	11.3
5	111105069	Mathematics	A Basic Course in Real Analysis	Prof. P.D. Srivastava	2	46	IIT Kharagpur	14.3
6	111103070	Mathematics	Complex Analysis	Prof. P. A. S. Sree Krishna	2	40	IIT Guwahati	22.4
7	111101003	Mathematics	Elementary Numerical Analysis	Prof. Rekha P. Kulkarni	2	40	IIT Bombay	31.6
8	111101005	Mathematics	Measure and Integration	Prof. Inder K Rana	2	40	IIT Bombay	33.7
9	111104024	Mathematics	Applied Multivariate Analysis	Dr. Amit Mitra, Dr. Sharmishtha Mitra	2	44	IIT Kanpur	19.6
10	111104025	Mathematics	Calculus of Variations and Integral Equations	Prof. D. Bahuguna, Dr. Malay Banerjee	2	40	IIT Kanpur	11.4
11	111104027	Mathematics	Linear programming and Extensions	Prof. Prabha Sharma	2	40	IIT Kanpur	16.5
12	111104068	Mathematics	Convex Optimization	Dr. Joydeep Dutta	2	42	IIT Kanpur	8.51
13	111105035	Mathematics	Advanced Engineering Mathematics	Prof. Somesh Kumar, Prof. P.D. Srivastava,	2	42	IIT Kharagpur	11.8
14	111105037	Mathematics	Functional Analysis	Prof. P.D. Srivastava	2	40	IIT Kharagpur	18.0
15	111105041	Mathematics	Probability and Statistics	Prof. Somesh Kumar	2	40	IIT Kharagpur	8.60
16	111108066	Mathematics	Advanced Matrix Theory and Linear Algebra for Engineers	Prof. Vittal Rao	2	40	IISc Bangalore	18.1
								<b>261.82</b>

### Mechanical Engineering :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		Mechanical Engineering	Advanced strength of materials	Prof. S.K.Maiti	1	40	IIT Bombay	9.62
2		Mechanical Engineering	Mechanical measurement	Prof.R.Raman	1	50	IIT Madras	12.9

3		Mechanical Engineering	Project management	Prof.Arun Kanda	1	41	IIT Delhi	10.6
4		Mechanical Engineering	Refrigeration and air conditioning	Prof. M.Ramgopal	1	46	IIT Kharagpur	11.9
5		Mechanical Engineering	Computational methods in design and manufacturing	Dr.R.Krishna Kumar	1	33	IIT Madras	7.28
6		Mechanical Engineering	Design of machine element I	Prof. G.Chakraborty	1	40	IIT Kharagpur	11.2
7		Mechanical Engineering	Dynamics of machines	Prof.Amitabha Ghosh	1	44	IIT Kanpur	5.84
8		Mechanical Engineering	Finite element method	Prof.C.S.Upadhyay	1	38	IIT Kanpur	3.67
9		Mechanical Engineering	Kinematics of machines	Prof.Ashok K.Mallik	1	39	IIT Kanpur	3.29
10		Mechanical Engineering	Principles of mechanical measurements	Prof.R.Raman	1	26	IIT Madras	5.29
11		Mechanical Engineering	Robotics	Prof. P.Seshu	1	40	IIT Bombay	10.8
12	112105171	Mechanical Engineering	Fluid Mechanics	Prof. S.K. Som	2	49	IIT Kharagpur	12.6
13	112107078	Mechanical Engineering	Advanced Manufacturing Processes	Dr. A.K. Sharma	2	40	IIT Roorkee	19.4
14	112101002	Mechanical Engineering	Convective Heat and Mass Transfer	Prof. A.W. Date	2	42	IIT Bombay	17.6
15	112107086	Mechanical Engineering	Processing of non metals	Dr. Inderdeep Singh	2	40	IIT Roorkee	30.1
16	112101004	Mechanical Engineering	Cryogenic Engineering	Prof. M.D. Atrey	2	42	IIT Bombay	33.9
17	112104031	Mechanical Engineering	Computer Aided Engineering Design	Dr. Anupam Saxena	2	40	IIT Kanpur	15.0
18	112102014	Mechanical Engineering	Tribology	Dr. Harish Hirani	2	42	IIT Delhi	17.9
19	112104029	Mechanical Engineering	Bio microelectro mechanical systems	Dr. Shantanu Bhattacharya	2	40	IIT Kanpur	17.0
20	112105045	Mechanical Engineering	Computational Fluid Dynamics	Prof. S. Chakraborty	2	43	IIT Kharagpur	21.3
21	112105055	Mechanical Engineering	Vibration of Structures	Prof. A. Dasgupta	2	40	IIT Kharagpur	10.1
22	112106064	Mechanical Engineering	Design and Optimization of Energy systems	Prof. C. Balaji	2	40	IIT Madras	15.6
23	112106065	Mechanical Engineering	Engineering Fracture Mechanics	Prof. K. Ramesh	2	41	IIT Madras	17.0
24	112106068	Mechanical Engineering	Experimental Stress Analysis	Prof. K. Ramesh	2	41	IIT Madras	18.3
25	112106073	Mechanical Engineering	Rocket Propulsion	Prof. K. Ramamurthi	2	41	IIT madras	17.9
26	112106155	Mechanical Engineering	Conduction And Radiation	Prof. C. Balaji	2	46	IIT Madras	18.6
								<b>374.69</b>

### Metallurgy and Material Science :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1	113104006	Metallurgy and Material Science	Electroceramics	Dr. Ashish Garg	2	41	IIT Kanpur	17.3
2	113104061	Metallurgy and Material Science	Environmental Degradation of Materials	Dr. Kallol Mondal	2	40	IIT Kanpur	17.1
3	113105015	Metallurgy and Material Science	Advanced ceramics for strategic applications	Prof. H.S. Maiti	2	47	IIT Kharagpur	13.2
4	113104008	Metallurgy and Material Science	Fuels Refractory and Furnaces	Prof. Satish Ch. Korja	2	40	IIT Kanpur	7.41
5	113104009	Metallurgy and Material Science	Introduction to Biomaterials	Dr. Birkamjit Basu,Dr. Kantesh Balani	2	39	IIT Kanpur	14.4



6	113104010	Metallurgy and Material Science	Materials and Energy balance in Metallurgical Processes	Prof. Satish Ch. Koria	2	40	IIT Kanpur	13.4
7	113104013	Metallurgy and Material Science	Steel Making	Prof. Dipak Mazumdar, Prof. Satish Ch. Koria	2	42	IIT Kanpur	15.4
8	113105021	Metallurgy and Material Science	Non-ferrous Extractive Metallurgy	Prof. H.S. Ray, Mr. L. Pugazhenthay	2	43	IIT Kharagpur	19.3
9	113105024	Metallurgy and Material Science	Principles of Physical Metallurgy	Prof. R.N. Ghosh	2	42	IIT Kharagpur	19.7
10	113106031	Metallurgy and Material Science	Advanced Metallurgical Thermodynamics	Prof. B.S. Murty	2	31	IIT Madras	12.5
11	113106039	Metallurgy and Material Science	Physics of Materials	Dr. Prathap Haridoss	2	40	IIT Madras	14.7
								<b>164.41</b>

### Ocean Engineering :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1	114105005	Ocean Engineering	Marine Hydrodynamics	Dr. T. Sahoo	2	40	IIT Kharagpur	11.7
2	114106035	Ocean Engineering	Ocean Structures and Materials	Dr. Srinivasan Chandrasekaran	2	38	IIT Madras	11.1
3	114106036	Ocean Engineering	Dynamics of Ocean Structures	Dr. Srinivasan Chandrasekaran	2	55	IIT Madras	19.9
4	114106037	Ocean Engineering	Advanced Marine Structures	Dr. Srinivasan Chandrasekaran	2	53	IIT Madras	20.7
5	114105003	Ocean Engineering	Hydrostatics and Stability	Dr. Hari V. Warrior	2	40	IIT Kharagpur	18.5
6	114105004	Ocean Engineering	Marine Construction and Welding	Prof. N.R. Mandal	2	41	IIT Kharagpur	8.51
7	114105006	Ocean Engineering	Seakeeping & Manoeuvring	Prof. Debabrata Sen	2	40	IIT Kharagpur	8.55
8	114106017	Ocean Engineering	Health, Safety and Environmental Management in Petroleum and Offshore Engineering	Dr. Srinivasan Chandrasekaran	2	35	IIT Madras	7.94
9	114106033	Ocean Engineering	Wave Hydrodynamics	Prof. V. Sundar	2	25	IIT Madras	9.70
10	114106032	Ocean Engineering	Coastal Engineering	Prof. V. Sundar	2	37	IIT Madras	13.2
								<b>129.8</b>

### Physics :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		Physics	Engineering physics – II	Prof.V.Ravishankar	1	09	IIT Kanpur	2.33
2	115101005	Physics	Electromagnetic Theory	Prof. D.K. Ghosh	2	40	IIT Bombay	28.5
3	115101011	Physics	Special Theory of Relativity	Prof. Shiva Prasad	2	24	IIT Bombay	21.3
4	115102026	Physics	Semiconductor Optoelectronics	Prof. M. R. Shenoy	2	46	IIT Delhi	31.6
5	115102014	Physics	Electronics	Prof. D.C. Dube	2	42	IIT Delhi	18.0
6	115106058	Physics	Classical Field Theory	Prof. Suresh Govindarajan	2	39	IIT Madras	16.5
7	115102020	Physics	Plasma Physics: Fundamentals and Applications	Prof. V.K. Tripathi, Prof. Vijayshri	2	42	IIT Delhi	18.5
8	115102022	Physics	Quantum Electronics	Prof. K. Thyagarajan	2	42	IIT Delhi	16.4

9	115102023	Physics	Quantum Mechanics and Applications	Prof. Ajoy Ghatak	2	42	IIT Delhi	18.3
10	115106068	Physics	Special Topics in Classical Mechanics	Prof. P.C. Deshmukh	2	40	IIT Madras	12.4
								<b>183.83</b>

### Textile Engineering :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1	116102034	Textile Engineering	Theory of Yarn Structures	Prof. Bohuslav Neckar	2	20	IIT Delhi	14.4
2	116104044	Textile Engineering	Natural Dyes	Dr. Padma S Vankar	2	40	IIT Kanpur	11.9
								<b>26.3</b>

### Engineering Design & General :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1	107103004	Engineering Design	Ergonomics for beginners: Industrial design perspective	Prof. Debkumar Chakrabarti	2	40	IIT Guwahati	16.7
2	121106003	General	Ayurvedic Inheritance of India	Dr M. S. Valiathan	2	20	IIT Madras	9.20
								<b>25.9</b>

### General Engineering :-

S No	Course ID	Discipline Name	Course Name	Professor Name	Phase	No. of Lessons	Institute	Memory (GB)
1		General Engineering	Basic electronics	Prof.T.S.Natarajan	1	40	IIT Madras	10.4
2		General Engineering	Engineering mechanics	Prof.Manoj K Harbola	1	31	IIT Kanpur	7.04
								<b>17.44</b>