Bouquet of MOOCs Courses

Name of the Board: BoS in IP/IM/MA

SI				Course
No	Title of MOOC Course	Course Area	Subject Matter Expert	Duration
1	Plant Design and Economics	Chemical Engineering	Prof. Debasis Sarkar	12 Weeks
	Technologies for Clean and Renewable			
2	Energy Production	Chemical Engineering	Prof. P. Mondal	8 Weeks
3	Chemical Process Safety	Chemical Engineering	Prof. Shishir Sinha	12 Weeks
4	Mechanical Operation	Chemical Engineering	Prof. Shabina Khanam	4 Weeks
		Electrical and		
		Electronics		
5	Power Electronics	Engineering	Prof. G.Bhuvaneshwari	12 weeks
		Electrical and		
		Electronics	Prof. Dhananjay V. Gadre	
6	Introduction to Embedded System Design	Engineering	Prof. Badri N Subudhi	12 weeks
		Humanities and Social		
7	Developing Soft Skills and Personality	Sciences	Prof. T. Ravichandran	8 Weeks
		Humanities and Social		
8	Great Experiments in Psychology	Sciences	Prof. Rajlakshmi Guha	4 Weeks
		Humanities and Social		
9	Water, Society and Sustainability	Sciences	Prof. Jenia Mukherjee	4 Weeks
		Humanities and Social		
10	Educational leadership	Sciences	Prof. Atasi Mohanty	8 Weeks
		Humanities and Social		
11	Health Research Fundamentals	Sciences	Prof. P. Manickam	8 Weeks
12	Managing Intellectual Property in	Humanities and Social	Prof. Feroz Ali	4 Weeks

	Universities	Sciences		
		Humanities and Social		
13	Patent Drafting for Beginners	Sciences	Prof. Feroz Ali	4 Weeks
		Humanities and Social		
14	Patent Law for Engineers and Scientists	Sciences	Prof. Feroz Ali	12 Weeks
	Consumer Psychology	Humanities and Social		
15		Sciences	Prof. Naveen Kashyap	8 Weeks
		Humanities and Social		
16	Soft skills	Sciences	Prof. Binod Mishra	12 Weeks
	Introduction to Western Political Thought	Humanities and Social		
17		Sciences	Prof. Mithilesh Kumar Jha	12 Weeks
		Humanities and Social		
18	Entrepreneurship and IP strategy	Sciences	Prof. GouriGargate	8 Weeks
		Humanities and Social		
19	Energy Economics And Policy	Sciences	Prof. Shyamasree Dasgupta	8 Weeks
	Body language: Key to professional	Humanities and Social		
20	Success	Sciences	Prof. Rashmi Gaur	4 Weeks
		Humanities and Social		
21	Science, Technology and Society	Sciences	Prof. Sambit Mallick	12 weeks
		Humanities and Social		
22	Sociological Perspectives on Modernity	Sciences	Prof. Sambit Mallick	12 weeks
	Right to Information and Good			
23	Governance	Law	Prof. Sairam Bhat	12 Weeks
	Constitution of India and Environmental			
	Governance: Administrative and		Prof. Sairam Bhat	
24	Adjudicatory Process	Law	Prof. M. K. Ramesh	12 Weeks
25	Constitutional Studies	Law	Prof. Sudhir Krishnaswamy	12 Weeks
26	Human resource development	Management	Prof. KBL Srivastava	12 Weeks

27	Managing Services	Management	Prof. Jayanta Chatterjee	8 Weeks
			Prof. Ashwin Mahalingam	
28	Design Thinking - A Primer	Management	Prof. BalaRamadurai	4 Weeks
	Soft Skills For Business Negotiations And			
29	Marketing Strategies	Management	Prof. Uttam Kumar Banerjee	12 Weeks
30	Knowledge Management	Management	Prof. KBL Srivastava	8 Weeks
			Prof. Kalyan Chakravarti	
31	Leadership	Management	Prof. Tuheena Mukherjee	4 Weeks
32	Gender justice and workplace security	Management	Prof. Dipa Dube	4 Weeks
33	Industrial Safety Engineering	Management	Prof. JhareswarMaiti	12 Weeks
34	Ethics in Engineering Practice	Management	Prof. Susmita Mukhopadhyay	8 Weeks
35	Working Capital Management	Management	Prof. Anil K. Sharma	12 Weeks
	Innovation, Business Models and		Prof. Rajat Agarwal	
36	Entrepreneurship	Management	Prof. Vinay Sharma	8 Weeks
	Business Analytics & Data Mining			
37	Modeling Using R Part II	Management	Prof. Gaurav Dixit	4 Weeks
38	Project management for managers	Management	Prof. Mukesh Kumar Barua	12 Weeks
39	Marketing research and analysis	Management	Prof. J. K. Nayak	8 Weeks
40	Manufacturing Strategy	Management	Prof. Rajat Agarwal	8 Weeks
41	Organizational Behaviour	Management	Prof. M. P. Ganesh	12 Weeks
42	Financial Accounting - IITB	Management	Prof. Varadraj Bapat	8 Weeks
43	Cost Accounting	Management	Prof. Varadraj Bapat	4 Weeks
44	International Business	Management	Prof. J. K. Nayak	12 Weeks
	Path Integral Methods in Physics &		·	
45	Finance	Management	Prof. J. P. Singh	12 Weeks
	Organization Development and Change in			
46	21st Century	Management	Prof. Ashish Pandey	8 Weeks

47	Customer Relationship Management	Management	Prof. Swagato Chatterjee	8 Weeks
			Prof. SusmitaMuhopadhyay	
48	Principles of Management	Management	Prof. S. Srinivasan	12 Weeks
			Prof. Kunal Kanti Ghosh	
			Prof. Anupam Ghosh	
49	Decision Support System for Managers	Management	Prof Sujoy Bhattacharya	12 Weeks
			Prof. Kunal Kanti Ghosh	
			Prof. Saini Das	
50	Management Information System	Management	Prof. Surojit Mukherjee	12 Weeks
51	Introduction to Marketing Essentials	Management	Prof. Zillur Rahman	8 Weeks
52	Decision-Making Under Uncertainty	Management	Prof. N. Gautam	4 Weeks
53	Training of Trainers	Management	Prof. Santosh Rangnekar	12 Weeks
54	Management Accounting	Management	Prof. Anil K. Sharma	12 Weeks
	Business Analytics & Text Mining			
55	Modeling Using Python	Management	Prof. Gaurav Dixit	8 Weeks
56	Managerial Economics	Management	Prof. Trupti Mishra	12 Weeks
			Prof. Jayanta Chatterjee	
57	Marketing Management-I	Management	Prof. Shashi Shekhar Mishra	8 weeks
58	Economics of Health and Health Care	Management	Prof. Angan Sengupta	8 weeks
	The Future of Manufacturing Business:		Prof. R. K. Amit	
59	Role of Additive Manufacturing	Management	Prof. U. Chandrasekhar	8 Weeks
60	Financial accounting - IITMandi	Management	Prof. Puran Singh	12 Weeks
		Mechanical		
61	Manufacturing Systems Technology I & II	Engineering	Prof. Shantanu Bhattacharya	12 Weeks
		Mechanical	Prof. J. Ramkumar	
62	Rapid Manufacturing	Engineering	Prof. Amandeep Singh	12 Weeks
	Heat Exchangers: Fundamentals and	Mechanical	Prof. Prasanta Kumar Das	
63	Design Analysis	Engineering	Prof. Indranil Ghosh	12 Weeks

		Mechanical		
64	Mechanism And Robot Kinematics	Engineering	Prof. Anirvan Dasgupta	8 Weeks
		Mechanical		
65	Advanced Fluid Mechanics	Engineering	Prof. Suman Chakraborty	12 Weeks
		Mechanical		
66	Robotics	Engineering	Prof. D. K. Pratihar	8 Weeks
		Mechanical		
67	Mechanical Measurement Systems	Engineering	Prof. Ravi Kumar	8 Weeks
		Mechanical		
68	Automation in Manufacturing	Engineering	Prof. Shrikrishna N. Joshi	12 Weeks
	Finite Element Method: Variational	Mechanical	Prof. Atanu Banerjee	
69	Methods to Computer Programming	Engineering	Prof. Arup Nandy	12 Weeks
	High Performance Computing for	Mechanical		
70	Scientists and Engineers	Engineering	Prof. Somnath Roy	8 Weeks
	Foundation of Computational Fluid	Mechanical		
71	Dynamics	Engineering	Prof. Vengadesan	8 Weeks
	Advances in welding and joining	Mechanical		
72	technologies	Engineering	Prof. Swarup Bag	8 Weeks
		Mechanical		
73	Introduction to Mechanical Vibration	Engineering	Prof. Anil Kumar	8 Weeks
	Fundamentals of Surface Engineering:			
	Mechanisms, Processes and	Mechanical		
74	Characterizations	Engineering	Prof. D. K. Dwivedi	12 Weeks
		Mechanical		
75	Product Design and Development	Engineering	Prof. Inderdeep Singh	4 Weeks
		Mechanical		
76	Work System Design	Engineering	Prof. Inderdeep Singh	12 Weeks
		Mechanical		
77	Refrigeration and air-conditioning	Engineering	Prof. Ravi Kumar	8 Weeks

ĺ		Mechanical		
78	Principles of Metal Forming Technology	Engineering	Prof. Pradeep Kumar Jha	8 Weeks
		Mechanical		
79	Theory of Production Processes	Engineering	Prof. Pradeep Kumar Jha	12 Weeks
		Mechanical		
80	Computational Continuum Mechanics	Engineering	Prof. Sachin Singh Gautam	12 Weeks
		Mechanical	Prof. Dhiman Chatterjee	
81	Fluid dynamics and turbomachines	Engineering	Prof. ShamitBakshi	8 Weeks
		Mechanical		
82	Advanced Machining Processes	Engineering	Prof. Manas Das	8 Weeks
	Principle of Hydraulic Machines and	Mechanical		
83	System Design	Engineering	Prof. Pranab K. Mondal	8 Weeks
		Mechanical		
84	Basics of Materials Engineering	Engineering	Prof. Ratna Kumar Annabattula	12 Weeks
	Engineering drawing and computer	Mechanical		
85	graphics	Engineering	Prof. Rajaram Lakkaraju	12 Weeks
	Fundamentals of Convective Heat	Mechanical		
86	Transfer	Engineering	Prof. AmareshDalal	12 Weeks
	Computational Fluid Dynamics using	Mechanical		
87	Finite Volume Method	Engineering	Prof. KameswararaoAnupindi	12 Weeks
	Selection Of Nanomaterials For Energy	Mechanical		
88	Harvesting And Storage Application	Engineering	Prof. Kaushik Pal	4 Weeks
		Mechanical		
89	Solid Mechanics	Engineering	Prof. Ajeet Kumar	12 Weeks
	Fundamentals of Conduction and	Mechanical	Prof. AmareshDalal	
90	Radiation	Engineering	Prof. Dipankar N. Basu	12 Weeks
		Mechanical		
91	Steam Power Engineering	Engineering	Prof. Vinayak N. Kulkarni	8 Weeks
92	Dynamic Behaviour Of Materials	Mechanical	Prof. Prasenjit Khanikar	12 Weeks

		Engineering		
		Mechanical		
93	Aircraft Propulsion	Engineering	Prof. Vinayak N. Kulkarni	12 weeks
		Mechanical		
94	Basics Of Finite Element Analysis-I	Engineering	Prof. Nachiketa Tiwari	8 weeks
	Foundations of Cognitive Robotics	Mechanical		
95		Engineering	Prof. Bishakh Bhattacharya	4 weeks
		Mechanical		
96	BioMEMS And Microfluidics	Engineering	Prof. Shantanu Bhattacharya	8 weeks
		Mechanical		
97	Engineering Metrology	Engineering	Prof. J. Ramkumar	12 weeks
		Mechanical		
98	Introduction to Composites	Engineering	Prof. Nachiketa Tiwari	12 weeks
	Elementary Stereology for Quantitative	Metallurgical and	Prof. Sandeep Sangal	
99	Metallography	Materials Engineering	Prof. Sankaran	4 Weeks
	Welding of Advanced High Strength Steels	Metallurgical and		
100	for Automotive Applications	Materials Engineering	Prof. Murugaiyan Amirthalingam	4 Weeks
		Metallurgical and		
101	Structural Analysis of Nanomaterials	Materials Engineering	Prof. Kaushik Pal	4 Weeks
		Metallurgical and		
102	Advanced Materials and Processes	Materials Engineering	Prof. Jayanta Das	12 Weeks
	Energy conservation and waste heat	Metallurgical and	Prof. P. K. Das	
103	recovery	Materials Engineering	Prof. A Bhattacharya	12 Weeks
		Metallurgical and		
104	Powder Metallurgy	Materials Engineering	Prof. Ranjit Bauri	12 Weeks
		Metallurgical and	Prof. Ranjit Kumar Ray	
105	X-ray Crystallography & Diffraction	Materials Engineering	Prof. S. Sankaran	12 Weeks
		Metallurgical and		
106	Ironmaking and Steelmaking	Materials Engineering	Prof. Gour Gopal Roy	12 Weeks

		Metallurgical and		
107	Aqueous Corrosion and Its Control	Materials Engineering	Prof. V. S. Raja	12 Weeks
	Fundamentals of electronic device	Metallurgical and		
108	fabrication	Materials Engineering	Prof. Parasuraman Swaminathan	4 Weeks
	Thermo-Mechanical And Thermo-	Metallurgical and	Prof. Vivek Pancholi	
109	Chemical Processes	Materials Engineering	Prof. S. R. Meka	8 Weeks
		Metallurgical and		
110	Corrosion - Part II	Materials Engineering	Prof. Kallol Mondal	8 weeks
		Metallurgical and		
111	Fundamentals Of Material Processing - I	Materials Engineering	Prof. Shashank Shekhar	8 weeks
112	Introduction to Research	Multidisciplinary	Prof. PrathapHaridoss	8 weeks
			Prof. Abhijit Deshpande	
113	Ecology and Environment	Multidisciplinary	Prof. R. Ravi Krishna	8 Weeks
114	Neuroscience of Human Movements	Multidisciplinary	Prof. Varadhan	12 weeks
115	Stress Management	Multidisciplinary	Prof. Rajlakshmi Guha	4 Weeks
	Designing learner-centric e-learning in			
116	STEM disciplines	Multidisciplinary	Prof. Sahana Murthy	4 Weeks
117	Numerical Methods for Engineers	Multidisciplinary	Prof. NiketKaisare	12 Weeks
	Teaching And Learning in General			
118	Programs: TALG	Multidisciplinary	Prof. N J Rao	4 Weeks
119	Learning Analytics Tools	Multidisciplinary	Prof. Ramkumar Rajendran	12 Weeks
120	Fundamentals Of Artificial Intelligence	Multidisciplinary	Prof. Shyamanta M. Hazarika	12 Weeks
121	Solar Energy Engineering and Technology	Physics	Prof. Pankaj Kalita	12 Weeks
	Problem solving through Programming In	Computer Science and		
122	C	Engineering	Prof. Anupam Basu	12 Weeks
		Computer Science and		
123	Programming in Java	Engineering	Prof. DebasisSamanta	12 Weeks
124	Deep Learning	Computer Science and	Prof. Prabir Kumar Biswas	12 Weeks

		Engineering		
		Computer Science and		
125	Hardware modeling using verilog	Engineering	Prof. Indranil Sengupta	8 Weeks
		Computer Science and	Prof. Indranil Sengupta	
126	Computer architecture and organization	Engineering	Prof. Kamalika Datta	12 Weeks
		Computer Science and		
127	Switching Circuits and Logic Design	Engineering	Prof. Indranil Sengupta	12 Weeks
	Introduction to Industry 4.0 and Industrial	Computer Science and		
128	Internet of Things	Engineering	Prof. Sudip Misra	12 Weeks
		Computer Science and		
129	Social Networks	Engineering	Prof. Sudarshan Iyengar	12 Weeks
	Artificial Intelligence Search Methods For	Computer Science and		
130	Problem Solving	Engineering	Prof. Deepak Khemani	12 Weeks
		Computer Science and	Prof. Sudarshan Iyengar	
131	The Joy of Computing using Python	Engineering	Prof. Yayati Gupta	12 Weeks
	Object Oriented System Development	Computer Science and		
132	using UML, Java and Patterns	Engineering	Prof. Rajib Mall	12 Weeks
		Computer Science and		
133	Applied Natural Language Processing	Engineering	Prof. Ramaseshan R	12 Weeks
		Computer Science and	Prof. Samit Bhattacharya	
134	Computer Graphics	Engineering		8 Weeks
		Computer Science and	Prof. Sourav Mukhopadhyay	
135	Introduction to algorithms and analysis	Engineering		12 Weeks
	Google Cloud Computing Foundation	Computer Science and		
136	Course	Engineering	Prof. Soumya Kanti Ghosh	8 weeks
	Bandit Algorithm (Online Machine	Computer Science and	Prof. Manjeshhanawal	
137	Learning)	Engineering		12 Weeks
138	System design for sustainability	Design Engineering	Prof. Sharmistha Banerjee	12 Weeks

139	Functional and Conceptual Design	Design Engineering	Prof. Asokan T	12 Weeks
140	Design, Technology and Innovation	Design Engineering	Prof. B.K. Chakravarthy	8 Weeks
141	Understanding Ethnography	Design Engineering	Prof. Nina Sabnani	8 Weeks
142	Introduction to Abstract Group Theory	Mathematics	Prof. Krishna Hanumanthu	8 Weeks
143	Regression Analysis	Mathematics	Prof. SoumenMaity	12 Weeks
	Introduction to Abstract and Linear			
144	Algebra	Mathematics	Prof. Sourav Mukhopadhyay	8 Weeks
			Prof. Ameeya Kumar Nayak	
145	Numerical methods	Mathematics	Prof. Sanjeev Kumar	8 Weeks
	Essential Mathematics for Machine		Prof. Sanjeev Kumar	
146	Learning	Mathematics	Prof. S.K. Gupta	8 Weeks
147	Engineering Mathematics - I	Mathematics	Prof. Jitendra Kumar	12 Weeks
148	Computational Commutative Algebra	Mathematics	Prof. Manoj Kummini	12 Weeks
			Prof. Mani Mehra	
149	Scientific Computing using Matlab	Mathematics	Prof. Vivek K. Aggarwal	12 Weeks
150	Measure Theory	Mathematics	Prof. Indrava Roy	12 Weeks
			Prof. N. Sukavanam	
151	Dynamical System and Control	Mathematics	Prof. D. N. Pandey	12 Weeks
	Introduction to Fuzzy Set Theory,			
152	Arithmetic and Logic	Mathematics	Prof. Niladri Chatterjee	12 Weeks
	Introduction to Methods of Applied		Prof. Mani Mehra	
153	Mathematics	Mathematics	Prof. Vivek aggarwal	12 Weeks
154	Introduction to R Software	Mathematics	Prof. Shalabh	8 weeks
155	Linear Algebra	Mathematics	Prof. Arbind Kumar Lal	12 Weeks