

Format for submission of Bouquet of MOOCs Courses

Name of the Board: AUTOMOBILE ENGINEERING

Sl No	Title of the MOOCs Course	Course Area	Subject Matter Expert (SME)	Course Duration
1	The Future of Manufacturing Business: Role of Additive Manufacturing	Engineering Operations	Prof. R. K. Amit, Prof. U. Chandrasekhar	8
2	Mathematical Modeling Of Manufacturing Processes	Manufacturing processes and Technology	Prof. Swarup Bag	12
3	Rapid Manufacturing	Manufacturing processes and Technology	Prof. J. Ramkumar, Prof. Amandeep Singh	12
4	Introduction to Machine Learning	AI	Prof. Balaraman Ravindran	12
5	Numerical methods	Mechanical Engineering	Prof. Ameeya Kumar Nayak, Prof. Sanjeev Kumar	8
6	Selection Of Nanomaterials For Energy Harvesting And Storage Application	Engineering-Energy systems	Prof. Kaushik Pal	4
7	Technologies For Clean And Renewable Energy Production	Engineering-Energy & Environment	Prof. P. Mondal	8
8	Energy Economics And Policy	Engineering-Energy & Environment	Prof. Shyamasree Dasgupta	8
9	Energy conservation and waste heat recovery	Engineering-Energy & Environment	Prof. Prasanta Kumar Das, Prof. A Bhattacharya	12
10	Integrated Waste Management for a Smart City	Engineering-Environment	Prof. Brajesh Kumar Dubey	12
11	Managing Services	Engineering-marketing	Prof. Jayanta Chatterjee	8
12	Customer Relationship Management	Engineering-marketing	Prof. Swagato Chatterjee	8
13	Introduction to Ancient Indian Technology	Aerospace Engineering	Prof. D. P. Mishra	8
14	Introduction to Airbreathing Propulsion	Aerospace Engineering	Prof. Ashoke De	12
15	Innovation by Design	Design Engineering	Prof. B. K. Chakravarthy	4
16	Understanding Design	Design Engineering	Prof. Nina Sabnani	4
17	Functional and Conceptual Design	Design Engineering	Prof. Asokan T	12 Weeks
18	Design, Technology and Innovation	Design Engineering	Prof. B.K. Chakravarthy	8
19	Design of photovoltaic systems	Electrical and Electronics Engineering	Prof. L Umanand	12
20	Basic Electrical Circuits	Electrical and Electronics Engineering	Prof. Nagendra Krishnapura	12
21	Heat Exchangers: Fundamentals and Design	Mechanical Engineering	Prof. Prasanta Kumar Das, Prof. Indranil Ghosh	12


	Analysis			
22	Advances in welding and joining technologies	Mechanical Engineering	Prof. Swarup Bag	8
23	Welding of Advanced High Strength Steels for Automotive Applications	Metallurgical and Materials Engineering	Prof. Murugaiyan Amirthalingam	4
24	Energy conservation and waste heat recovery	Metallurgical and Materials Engineering	Prof. P. K. Das Prof. A Bhattacharya	12
25	Powder Metallurgy	Metallurgical and Materials Engineering	Prof. Ranjit Bauri	12

Inter-Disciplinary Courses

Sl. No.	Title of the MOOCs course	Course area	Subject Matter Expert (SME)	Course Duration
1	Developing life skills	Humanities and Arts	Prof. (Dr.) M.N. Mohamedunni Alias Musthafa	12
2	Macro Economics	Humanities and Arts	Dr. Manasi Kurtkoti	12
3	Developing Soft Skills and Personality	Humanities and Arts	Prof. T. Ravichandran	08
4	Cost Accounting	Management & Commerce	Prof. Varadraj Bapat	04
5	Great Experiments in Psychology	Humanities and Social Sciences	Prof. Rajlakshmi Guha	4
6	Water, Society and Sustainability	Humanities and Social Sciences	Prof. Jenia Mukherjee	4
7	Managing Intellectual Property in Universities	Humanities and Social Sciences	Prof. Feroz Ali	4
8	Patent Drafting for Beginners	Humanities and Social Sciences	Prof. Feroz Ali	4
9	Patent Law for Engineers and Scientists	Humanities and Social Sciences	Prof. Feroz Ali	12
10	Technical English for Engineers	Humanities and Social Sciences	Prof. Aysha Iqbal	8
11	Soft skills	Humanities and Social Sciences	Prof. Binod Mishra	12
12	Entrepreneurship and IP strategy	Humanities and Social Sciences	Prof. Gouri Gargate	8
13	Energy Economics And Policy	Humanities and Social Sciences	Prof. Shyamasree Dasgupta	8
14	Body language: Key to professional Success	Humanities and Social Sciences	Prof. Rashmi Gaur	4
15	Patent Search for Engineers and Lawyers	Humanities and Social Sciences	Prof. M. Padmavati Prof. Shreya Matilal	8
16	Soft Skills For Business Negotiations And Marketing Strategies	Management	Prof. Uttam Kumar Banerjee	12
17	Leadership	Management	Prof. Kalyan Chakravarti Prof. Tuheena Mukherjee	4
18	Industrial Safety Engineering	Management	Prof. Jhareswar Maiti	12
19	Ethics in Engineering Practice	Management	Prof. Susmita Mukhopadhyay	8
20	Innovation, Business Models and Entrepreneurship	Management	Prof. Rajat Agarwal Prof. Vinay Sharma	8

21	Decision-Making Under Uncertainty	Management	Prof. N. Gautam	4
22	Regression Analysis	Mathematics	Prof. Soumen Maity	12
23	Essential Mathematics for Machine Learning	Mathematics	Prof. Sanjeev Kumar Prof. S.K. Gupta	8
24	Stress Management	Multidisciplinary	Prof. Rajlakshmi Guha	4
25	Technologies For Clean And Renewable Energy Production	Chemical Engineering	Prof. P. Mondal	8
26	Programming in C++	Computer Science and Engineering	Prof. Partha Pratim Das	8
27	Programming in Java	Computer Science and Engineering	Prof. Debasis Samanta	12
28	Deep Learning	Computer Science and Engineering	Prof. Prabir Kumar Biswas	12
29	Introduction to internet of things	Computer Science and Engineering	Prof. Sudip Misra	12
30	Introduction to Industry 4.0 and Industrial Internet of Things	Computer Science and Engineering	Prof. Sudip Misra	12
31	Introduction to Machine Learning	Computer Science and Engineering	Prof. Balaraman Ravindran	12
32	The Joy of Computing using Python	Computer Science and Engineering	Prof. Sudarshan Iyengar Prof. Yayati Gupta	12
33	Design of photovoltaic systems	Electrical and Electronics Engineering	Prof. L Umanand	12
34	Basic Electrical Circuits	Electrical and Electronics Engineering	Prof. Nagendra Krishnapura	12

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