Format for submission of Bouquet of MOOCs Courses

Name of the Board: **Chemical Engineering**

S. No	Title of the MOOCs Course	Course Area	Subject Matter Expert (SME)	Course Duration
1	Computational Fluid Dynamics	Chemical Engineering	Prof. Sreenivas Jayanti	12 weeks
2	Membrane Technology	Chemical Engineering	Prof. Kaustubha Mohanty	12 weeks
3	Optimization in Chemical Engineering	Chemical Engineering	Prof. Debasis Sarkar	12 weeks
4	Soft Nano Technology	Chemical Engineering	Prof. Rabibrata Mukherjee	8 weeks
5	Multiphase Flows	Chemical Engineering	Prof. Rajesh Kumar Upadhyay	8 weeks
6	An Introduction to Cardiovascular Fluid Mechanics	Chemical Engineering	Prof. Raghvendra Gupta	4 weeks
7	Computer Aided Applied Single Objective Optimization	Chemical Engineering	Prof. Prakash Kotecha	8 weeks
8	Introduction To Process Modeling In The Membrane Separation Process	Chemical Engineering	Prof. Sirshendu De	4 weeks
9	Fluidization Engineering	Chemical Engineering	Prof. Subrata Kumar Majumder	12 weeks
10	Introduction to Polymer Physics	Chemical Engineering	Prof. Amit Kumar	8 weeks
11	Colloids and Surfaces	Chemical Engineering	Prof. Basavaraj Madivala Gurappa	8 weeks
12	Polymers: concepts, properties, uses and sustainability	Chemical Engineering	Prof. Abhijit P Deshpande	12 weeks
13	Polymer Reaction Engineering	Chemical Engineering	Prof. Shishir Sinha	8 weeks
14	Technologies For Clean And Renewable Energy Production	Chemical Engineering	Prof. P. Mondal	8 weeks

Inter-Disciplinary Courses				
S. No.	**Title of the MOOCs course**	**Course area**	**Subject Matter Expert (SME)**	**Course Duration**
1	Electronic Waste Management - Issues And Challenges	Civil Engineering	Prof. Brajesh Kumar Dubey	4 weeks
2	Plastic Waste Management	Civil Engineering	Prof. Brajesh Kumar Dubey	8 weeks
3	Applied Environmental Microbiology	Civil Engineering	Prof. Gargi Singh	12 weeks
4	An Introduction To Programming Through C++	Computer Science & Engineering	Prof. Abhiram G. Ranade	12 weeks
5	Energy Resources, Economics and Environment	Humanities and Social Sciences	Prof. Rangan Banerjee	12 weeks
6	Power Plant Engineering	Mechanical Engineering	Prof. Ravi Kumar	8 weeks
7	Experimental Methods in Fluid Mechanics	Mechanical Engineering	Prof. Pranab K. Mondal	12 weeks
8	Nature and Properties of Materials	Mechanical Engineering	Prof. Bishakh Bhattacharya	8 weeks
9	Properties of Materials (Nature and Properties of Materials : III)	Mechanical Engineering	Prof. Ashish Garg	8 weeks
10	Mathematical Methods and its Applications	Mathematics	Prof. P. N. Agarwal, Prof. S. K. Gupta	12 weeks
11	Fundamentals of Food Process Engineering	Agriculture Engineering	Prof. Jayeeta Mitra	12 weeks
12	Bioreactors	Biotechnology & Bioengineering	Prof. Suraishkumar G K	4 weeks
13	Industrial Biotechnology	Biotechnology & Bioengineering	Prof. Debabrata Das	12 weeks
14	Glass Processing Technology	Civil Engineering	Prof. K N Satyanarayana Prof. E. Rajasekar	12 weeks
15	Environmental Chemistry	Civil Engineering	Prof. Bhanu Prakash Vellanki	12 weeks
16	Operations Research	Mathematics	Prof. Kusum Deep	8 weeks
17	Introduction to R Software	Mathematics	Prof. Shalabh	8 weeks
18	Ecology and Environment	Multidisciplinary	Prof. Abhijit Deshpande and Prof. R. Ravi Krishna	8 weeks
19	Enhancing Soft Skills and Personality	Humanities and Social Science	Prof. T. Ravichandran	8 weeks
20	Emotional Intelligence	Humanities and Social Science	Prof. Rabindra Kumar Pradhan	8 weeks
21	English language for competitive exams	Humanities and Social Sciences	Prof. Aysha Iqbal Viswamohan	12 weeks