



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi
Proposed list of MOOCs (NPTEL July-Dec 2021 Timeline) for B.E Degree Honours

Date: 21/05/2021

From:

**Dr Ramakrishna N. Hegde,
Chairman, BOS
AU Board,
VTU, Belagavi**

To :

**The Registrar,
VTU Belagavi**

Dear Sir,

Subject: Submission of Bouquet of MOOCs(NPTEL) Courses regarding.....

With reference to your letter Ref : VTU/BGM/BOS/SO2/2020-21/572, dated 17 May, 2021, please find the proposed list of Bouquet of MOOCs Courses -JULY-DEC 2021 under the Board Of Automobile Engineering. The students shall choose the subjects as per the lists attached herewith.

Yours Faithfully,

(Dr Ramakrishna N. Hegde)



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Bouquet of MOOCs Courses -JULY-DEC 2021

Table 1. List of certifiable courses approved for earning the extra credits under type

Sl. No.	Course ID	Name of the Subject & Subject Matter Expert (SME)	Duration in Weeks	Start Date	End Date	Exam Dates	Enrolment End Date
1	noc21-ae08	Aircraft Stability and Control Prof. A. K. Ghosh	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
2	noc21-ae09	Introduction to Airplane Performance Prof. A. K. Ghosh	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021
3	noc21-ae10	Introduction to Airbreathing Propulsion Prof. Ashoke De	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
4	noc21-ae13	Design of fixed wing Unmanned Aerial Vehicles Prof. Saderla Subrahmanyam	8 Weeks	August 23, 2021	October 15, 2021	October 24, 2021	August 23, 2021
5	noc21-ae14	UAV Design - Part II Prof. Saderla Subrahmanyam	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021
6	noc21-bt30	Biomedical nanotechnology Prof. P. Gopinath	4 Weeks	August 23, 2021	September 17, 2021	October 23, 2021	August 23, 2021
7	noc21-ch42	Technologies For Clean And Renewable Energy Production Prof. P. Mondal	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021
8	noc21-ce72	Introduction to Multimodal Urban Transportation Systems (MUTS) Prof. Arkopal Kishore Goswami	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
9	noc21-ce74	Sustainable Transportation systems Prof. Bhola Ram Gurjar	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
10	noc21-cs63	Introduction to internet of things Prof. Sudip Misra	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
11	noc21-cs66	Introduction to Industry 4.0 and Industrial Internet of Things Prof. Sudip Misra	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
12	noc21-cs69	Data Science for Engineers Prof. Rangunathan Rengasamy Prof. Shankar Narasimhan	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021



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13	noc21-cs70	Introduction to Machine Learning – IITM Prof. Balaraman Ravindran	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
14	noc21-cs75	Introduction to Machine Learning - IITKGP Prof. Sudeshna Sarkar	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021
15	noc21-de13	Introduction to robotics Prof. Asokan T Prof. Balaraman Ravindran Prof. Krishna Vasudevan	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
16	noc21-de14	Innovation by Design Prof. B. K. Chakravarthy	4 Weeks	August 23, 2021	September 17, 2021	October 24, 2021	August 23, 2021
17	noc21-de15	Understanding Design Prof. Nina Sabnani	4 Weeks	August 23, 2021	September 17, 2021	October 24, 2021	August 23, 2021
18	noc21-ee73	Fundamentals of Electrical Engineering Prof. Debapriya Das	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
19	noc21-ee85	Design for internet of things Prof. T V Prabhakar	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021
20	noc21-ee99	Basic Electrical Circuits Prof. Gajendranath Chowdary (Prof. Nagendra Krishnapura)	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
21	noc21-ee59	Introduction to Semiconductor Devices Prof. Naresh Kumar Emani	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
22	noc21-me74	Heat Exchangers: Fundamentals and Design Analysis Prof. Prasanta Kr Das Prof. Indranil Ghosh	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
23	noc21-me77	Foundation of Computational Fluid Dynamics Prof. Vengadesan	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021
24	noc21-me84	Work System Design Prof. Inderdeep Singh	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
25	noc21-me87	Principles of Metal Forming Technology Prof. Pradeep Kumar Jha	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021
26	noc21-me96	Advanced Dynamics Prof. Anirvan DasGupta	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021



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27	noc21-me99	Welding Application Technology Prof. Pankaj Biswas	8 Weeks	August 23, 2021	October 15, 2021	October 23, 2021	August 23, 2021
28	noc21-me129	Design of Mechatronic Systems Prof. Prasanna Gandhi	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
29	noc21-mm20	Physics Of Materials Prof. Prathap Haridoss	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
30	noc21-mm23	Energy conservation and waste heat recovery Prof. Prasanta Kr Das Prof. A Bhattacharya	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
31	noc21-mm36	Corrosion Failures and Analysis Prof. Kallol Mondal	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021
32	noc21-mm38	Nanomaterials and their Properties Prof. Krishanu Biswas	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021



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Table 2. List of certifiable courses approved for earning the extra credits by ECE Students (Interdisciplinary)

Sl. No.	Course ID	Name of the Subject & Subject Matter Expert(SME)	Duration in Weeks	Start Date	End Date	Exam Dates	Enrolment End Date
1	noc21-ag06	Farm Machinery Prof. VK Tewari	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
2	noc21-ag07	Thermal Processing of Foods Prof. R. Anandalakshmi	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
3	noc21-ag08	Micro Irrigation Engineering Prof. Kamlesh Narayan Tiwari	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
4	noc21-cy49	Concepts of chemistry for engineering Prof. Anindya Datta Prof. Debabrata Maiti Prof. Chidambar Kulkarni Prof. Arnab Dutta	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
5	noc21-hs57	Developing Soft Skills and Personality Prof. T. Ravichandran	8 Weeks	August 23, 2021	October 15, 2021	October 24, 2021	August 23, 2021
6	noc21-hs70	Patent Drafting for Beginners Prof. Feroz Ali	4 Weeks	July 26, 2021	August 20, 2021	September 26, 2021	August 02, 2021
7	noc21-hs71	Patent Law for Engineers and Scientists Prof. Feroz Ali	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
8	noc21-hs77	Energy Economics And Policy Prof. Shyamasree Dasgupta	8 Weeks	August 23, 2021	October 15, 2021	October 24, 2021	August 23, 2021
9	noc21-hs93	Body language: Key to professional Success Prof. Rashmi Gaur	4 Weeks	July 26, 2021	August 20, 2021	September 26, 2021	August 02, 2021
10	noc21-hs103	Patent Search for Engineers and Lawyers Prof. M Padmavati Prof. Shreya Matilal	8 Weeks	August 23, 2021	October 15, 2021	October 23, 2021	August 23, 2021
11	noc21-mg59	Industrial Safety Engineering Prof. Jhareswar Maiti	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021



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12	noc21-mg60	Ethics in Engineering Practice Prof. Susmita Mukhopadhyay	8 Weeks	August 23, 2021	October 15, 2021	October 23, 2021	August 23, 2021
13	noc21-mg69	Toyota Production System Prof. Rajat Agarwal	8 Weeks	August 23, 2021	October 15, 2021	October 23, 2021	August 23, 2021
14	noc21-mg74	Decision-Making Under Uncertainty Prof. N. Gautam	4 Weeks	August 23, 2021	September 17, 2021	October 24, 2021	August 23, 2021
15	noc21-mg90	Managerial Economics Prof. Trupti Mishra	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
16	noc21-mg96	Intellectual Property Rights and Competition Law Prof. KD Raju Prof. Niharika Sahoo Bhattacharya	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021
17	noc21-ma38	Essential Mathematics for Machine Learning Prof. Sanjeev Kumar Prof. S.K. Gupta	8 Weeks + 4 Weeks new	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
18	noc21-ma55	Introduction to Fuzzy Set Theory, Arithmetic and Logic Prof. Niladri Chatterjee	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
19	noc21-ge18	Stress Management Prof. Rajlakshmi Guha	4 Weeks	July 26, 2021	August 20, 2021	September 26, 2021	August 02, 2021
20	noc21-ge20	Fundamentals Of Artificial Intelligence Prof. Shyamanta M. Hazarika	12 Weeks	July 26, 2021	October 15, 2021	October 23, 2021	August 02, 2021
21	noc21-ph33	Physics of Renewable Energy Systems Prof. Amreesh Chandra	12 Weeks	July 26, 2021	October 15, 2021	October 24, 2021	August 02, 2021
22	noc21-ag05	Organic Farming for Sustainable Agricultural Production Prof. Dillip Kumar Swain	8 Weeks	July 26, 2021	September 17, 2021	September 26, 2021	August 02, 2021