

To :

The Registrar,
VTU, Belagavi.

Sub: Updated list of bouquet of MOOCs Courses

With reference to the above please find the **list of bouquet of MOOCs Courses for JAN 2021 session**. Please note that Mechanical and allied branches are considered for intra discipline while listing the courses relevant to Automobile Engineering branch.

Date: 03/12/2020



Dr. Ramakrishna N. Hegde,
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VTU, Belagavi

AUTOMOBILE ENGINEERING

Bouquet of MOOCs Courses-JAN 2021

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

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Introduction to Mechanical Micro Machining Prof. Ajay M Sidpara	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
2	Gear and Gear Unit Design : Theory and Practice Prof. Rathindranath Maiti	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	UG
3	Optimization from fundamentals Prof. Ankur A. Kulkarni	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	PG
4	Fundamental of Welding Science and Technology Prof. Pankaj Biswas	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
5	Automatic Control Prof. Anil Kumar	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
6	Principles of Industrial Engineering Prof. D. K. Dwivedi	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
7	Inspection and Quality Control in Manufacturing Prof. Kaushik Pal	4 Weeks	February 15, 2021	March 12, 2021	February 15, 2021	UG/PG
8	Processing of Polymers and Polymer Composites Prof. Inderdeep Singh	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
9	Theory of Composite Shells Prof. Poonam Kumari	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	PG
10	Explosions and Safety Prof. K. Ramamurthi Prof. Prasad Patnaik BSV	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
11	Design Practice Prof. Shantanu Bhattacharya	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	UG/PG

12	Introduction to Robotics Prof. Ashish Dutta	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
13	Muffler Acoustics – Application to Automotive Exhaust Noise Control Prof. Akhilesh Mimani	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
14	Nonlinear Vibration Prof. S. K. Dwivedy	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
15	Wheeled Mobile Robots Prof. Asokan Thondiyath Prof. Santhakumar Mohan	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
16	Fundamentals of Combustion Prof. V. Raghavan	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
17	Oil Hydraulics and Pneumatics Prof. Somashekhar S	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
18	Introduction to Abrasive Machining and Finishing Processes Prof. Mamilla Ravi Sankar	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
19	Smart Materials and Intelligent System Design Prof. Bishakh Bhattacharya	4 Weeks	February 15, 2021	March 12, 2021	February 15, 2021	UG/PG
20	Product Design and Manufacturing Prof. J. Ramkumar Prof. Amandeep Singh	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG

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

Sl. No.	Name of the Subject & Instructor	Discipline	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Rocket Propulsion Prof. K. Ramamurthi Prof. V. Nagabhushana Rao	Aerospace Engineering	12 Weeks	January 18, 2021	April 24, 2021	January 25, 2021	UG/PG
2	Computational Science in Engineering Prof. Ashoke De	Aerospace Engineering	8 Weeks	February 15, 2021	April 24, 2021	February 15, 2021	UG/PG
3	Gasdynamics: Fundamentals and Applications Prof. Srisha Rao M V	Aerospace Engineering	12 Weeks	January 18, 2021	April 24, 2021	January 25, 2021	UG/PG
4	Aircraft Design Prof. A. K. Ghosh	Aerospace Engineering	12 Weeks	January 18, 2021	April 24, 2021	January 25, 2021	UG/PG
5	Introduction to Experiments in Flight Prof. A. K. Ghosh	Aerospace Engineering	4 Weeks	February 15, 2021	April 24, 2021	February 15, 2021	UG
6	Introduction to Launch Vehicle Analysis and Design Prof. Ashok Joshi	Aerospace Engineering	8 Weeks	February 15, 2021	April 24, 2021	February 15, 2021	UG/PG
7	Lighter than Air Systems Prof. Rajkumar Pant	Aerospace Engineering	12 weeks	January 18, 2021	April 24, 2021	January 25, 2021	UG/PG
8	Renewable Energy Engineering:	Chemical	8 Weeks	January 18, 2021	March 12, 2021	January	UG/PG

	Solar, Wind and Biomass Energy Systems Prof. Vaibhav Vasant Goud Prof. R. Anandalakshmi Chemical Engineering	Engineering				25, 2021	
9	Electronic Waste Management - Issues and Challenges Prof. Brajesh Kumar Dubey	Civil Engineering	4 Weeks	January 18, 2021	February 12, 2021	January 25, 2021	PG
10	Plastic Waste Management Prof. Brajesh Kumar Dubey	Civil Engineering	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	PG
11	Embedded System Design with ARM Prof. Indranil Sengupta Prof. Kamalika Datta	Computer Science and Engineering	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG
12	Introduction to Industry 4.0 and Industrial Internet of Things Prof. Sudip Misra	Computer Science and Engineering	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	January 25, 2021
13	Deep Learning - IIT Ropar Prof. Sudarshan Iyengar	Computer Science and Engineering	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
14	Machine Learning, ML	Computer Science and	8 Weeks	February 15,	April 9, 2021	February 15, 2021	PG

	Prof. Carl Gustaf Jansson	Engineering		2021			
15	Fundamentals of Automotive Systems Prof. C. S. Shankar Ram	Design Engineering	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
16	Innovation by Design Prof. B. K. Chakravarthy	Design Engineering	4 Weeks	February 15, 2021	March 12, 2021	February 15, 2021	UG
17	A brief introduction of Micro - Sensors Prof. Santanu Talukder	Electrical and Electronics Engineering	4 Weeks	January 18, 2021	February 12, 2021	January 25, 2021	PG
18	Sensors and Actuators Prof. Hardik Jeetendra Pandya	Electrical and Electronics Engineering	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
19	Microprocessors and Interfacing Prof. Shaik Rafi Ahamed	Electrical and Electronics Engineering	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
20	Speaking Effectively Prof. Anjali Gera Roy	Humanities and Social Sciences	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG
21	Patent Drafting for Beginners Prof. Feroz Ali	Humanities and Social Sciences	4 Weeks	January 18, 2021	February 12, 2021	January 25, 2021	UG/PG
22	Patent Law for Engineers and Scientists Prof. Feroz Ali	Humanities and Social Sciences	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG

23	English language for competitive exams Prof. Aysha Iqbal	Humanities and Social Sciences	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
24	German - I Prof. Milind Brahme	Humanities and Social Sciences	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
25	German - II Prof. Milind Brahme	Humanities and Social Sciences	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
26	Effective Writing Prof. Binod Mishra	Humanities and Social Sciences	4 Weeks	January 18, 2021	February 12, 2021	January 25, 2021	UG/PG
27	Total Quality Management - I Prof. Raghu Nandan Sengupta	Management	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
28	Supply Chain Analytics Prof. Rajat Agrawal	Management	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
29	Production and Operation Management Prof. Rajat Agrawal	Management	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	PG
30	Business Analytics for Management Decision Prof. Rudra P Pradhan	Management	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG

31	Engineering Econometrics Prof. Rudra P Pradhan	Management	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
32	Services Marketing: A Practical Approach Prof. Biplab Datta	Management	4 Weeks	January 18, 2021	February 12, 2021	January 25, 2021	UG/PG
33	Principles of Human Resource Management Prof. Aradhna Malik	Management	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
34	Six Sigma Prof. Jitesh J Thakkar	Management	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
35	Foundation Course in Managerial Economics Prof. Barnali Nag	Management	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
36	Ordinary and Partial Differential Equations and Applications Prof. P. N. Agrawal Prof. D. N. Pandey	Mathematics	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
37	Partial Differential Equations	Mathematics	4 Weeks	January 18, 2021	February 12, 2021	January 25, 2021	UG/PG

	(PDE) for Engineers: Solution by Separation of Variables Prof. Sirshendu De						
38	Theory and Practice of Non Destructive Testing Prof. Ranjit Bauri	Metallurgical and Materials Engineering	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
39	Fundamentals Of Electronic Materials and Devices Prof. Parasuraman Swaminathan	Metallurgical and Materials Engineering	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
40	Introduction to Research Prof. Prathap Haridoss	Multidisciplinary	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	PG
41	Roadmap for patent creation Prof. Gouri Gargate	Multidisciplinary	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
42	Fuzzy Logic and Neural Networks Prof. Dilip Kumar Pratihar	Multidisciplinary	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	UG/PG

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