



Ref. No. :

Date :

No. COE/MAKAUT, WB/CT/56/2019-20

Date: 5<sup>th</sup> September 2020

## NOTIFICATION

It is notified for information for all concerned that the enclosed list (total 25 pages) is published for the purpose of credit transfer scheme from the academic year 2020-21 as per recommendation of the appropriate authority and approval of the policy by the competent authority.

The published list is based on the recommendations received so far. Affiliated institutions may also propose additional courses for credit transfer scheme from different reputed MOOCs platforms. Such proposals would be considered by the appropriate authority and on acceptance of the same, they would be included in the credit transfer scheme.

In case of offering any course on MOOCs platform for credit transfer scheme, the same must be included in the profile of the students during enrolment process. One teacher need to be assigned for the students who are opting courses on MOOCs platform for credit transfer scheme for regular guidance, monitoring of progress and updating score in the university examinations portal.

In case of any discrepancy found in the listed courses like mismatching of credit points, duration of courses etc, must be brought into the notice of the office of the Controller of Examinations before offering them for credit transfer scheme.

This is published with the approval of the appropriate authority.

Dr. Subhashis Datta  
Controller of Examinations  
MAKAUT, W B



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**List: Part I (05.09.2020)**

**Course mapping for Credit Transfer Scheme (Electronics & Communication Engineering)**

Semester	Course Code	MAKAUT, WB Course Name	Alterative NPTEL/ Swayam Course	Instructor Name	Institute	Course link	Listed in the July-December 2020 session
I							
III	EC-301	Electronic Devices	Semiconductor Devices and Circuits	Prof. Sanjiv Sambandan	IISC, Bangalore	<a href="https://onlinecourses.nptel.ac.in/noc20_ee77/preview">https://onlinecourses.nptel.ac.in/noc20_ee77/preview</a>	Yes
			Semiconductor Devices	Dr. G.S. Visweswaran	IIT, Delhi	<a href="https://nptel.ac.in/courses/117/102/117102061">https://nptel.ac.in/courses/117/102/117102061</a>	NO
			Basic Elerctronics	PROF. CHITRALEKHA MAHANTA	IIT, Guwahati	<a href="https://nptel.ac.in/courses/117/103/117103063/">https://nptel.ac.in/courses/117/103/117103063/</a>	No
	ES-CS301	Data Structure & Algorithms	DATA STRUCTURE AND ALGORITHMS	PROF. NAVEEN GARG	IIT DELHI	<a href="https://nptel.ac.in/courses/106/102/106102064">https://nptel.ac.in/courses/106/102/106102064</a>	No
			PROGRAMMING, DATA STRUCTURES AND ALGORITHMS USING PYTHON	PROF. MADHAVAN MUKUND	CMI	<a href="https://onlinecourses.nptel.ac.in/noc20_cs70/preview">https://onlinecourses.nptel.ac.in/noc20_cs70/preview</a>	Yes



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			DATA STRUCTURE AND ALGORITHMS USING JAVA	PROF. DEBASIS SAMANTA	IIT KGP	<a href="https://onlinecourses.nptel.ac.in/noc20_cs85/preview">https://onlinecourses.nptel.ac.in/noc20_cs85/preview</a>	Yes
	EC302	Digital System Design	Digital Systems Design	Prof. D. Roychoudhury	IIT, KGP	<a href="https://nptel.ac.in/courses/117/105/117105080">https://nptel.ac.in/courses/117/105/117105080</a>	No
			Digital Circuits	Prof. Santanu Chattopadhyay	IIT, KGP	<a href="https://onlinecourses.nptel.ac.in/noc20_ee70/preview">https://onlinecourses.nptel.ac.in/noc20_ee70/preview</a>	Yes
	EC303	Signals and Systems	Principles of Signals and Systems Signals and Systems	Prof. Aditya Jagannathan	IIT, Kanpur	<a href="https://nptel.ac.in/courses/108/104/108104100">https://nptel.ac.in/courses/108/104/108104100</a>	No
Prof. Kushal K. Shah				IISER Bhopal	<a href="https://nptel.ac.in/courses/108/106/108106163">https://nptel.ac.in/courses/108/106/108106163</a>	No	
Signals and Systems			Prof. K.S. Venkatesh	IIT, Kanpur	<a href="https://nptel.ac.in/courses/117/104/117104074">https://nptel.ac.in/courses/117/104/117104074</a>	No	
	EC304	Network Theory	Circuit Theory	Prof. S.C. Dutta Roy	IIT, Delhi	<a href="https://nptel.ac.in/courses/108/102/108102042">https://nptel.ac.in/courses/108/102/108102042</a>	No.
			Network Analysis	Prof. Tapas Kumar Bhattacharya	IIT, KGP	<a href="https://nptel.ac.in/courses/108/105/108105159">https://nptel.ac.in/courses/108/105/108105159</a>	No.
			Networks Signals and Systems	Prof. T.K. Basu	IIT Kharagpur	<a href="https://nptel.ac.in/courses/108/105/108105065">https://nptel.ac.in/courses/108/105/108105065</a>	No
V	EC501	Electromagnetic Waves	<u>Applied Electromagnetics For Engineers</u>	Prof. Pradeep Kumar	IIT Kanpur	<a href="https://nptel.ac.in/noc/courses/noc20/SEM2/noc20-ee93/">https://nptel.ac.in/noc/courses/noc20/SEM2/noc20-ee93/</a>	Yes
			Transmission lines and electromagnetic waves	Prof. Ananth Krishnan	IIT Madras	<a href="https://nptel.ac.in/courses/108/106/108106157">https://nptel.ac.in/courses/108/106/108106157</a>	No



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	EC502	Computer Architecture	<u>Computer Architecture And Organization</u>	Prof. IndranilSengupta, Prof. KamalikaDatta	IIT Kharagpur	<a href="https://onlinecourses.nptel.ac.in/noc20_cs64/preview">https://onlinecourses.nptel.ac.in/noc20_cs64/preview</a>	Yes
			Computer Organization and Architecture	Prof. Jatindra Kumar Deka	IIT Guwahati	<a href="https://nptel.ac.in/courses/106/103/106103068">https://nptel.ac.in/courses/106/103/106103068</a>	No
	EC503	Digital Communication & Stochastic Process	Modern Digital Communication Techniques	Prof. SuvraSekhar Das	IIT Kharagpur	<a href="https://nptel.ac.in/noc/courses/noc17/SEM2/noc17-ec12/">https://nptel.ac.in/noc/courses/noc17/SEM2/noc17-ec12/</a>	No
			Principles Of Digital Communication	Prof. Abhishek Dixit	IIT Delhi	<a href="https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-ee17">https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-ee17</a>	No
			Principles Of Digital Communications	Prof. S. N. Merchant	IIT Bombay	<a href="https://nptel.ac.in/noc/courses/noc18/SEM2/noc18-ee27/">https://nptel.ac.in/noc/courses/noc18/SEM2/noc18-ee27/</a>	No
	EC504	Digital Signal Processing	Digital Signal Processing	Prof. C. S. Ramalingam	IIT Madras	<a href="https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ee50/">https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ee50/</a>	No
			Digital Signal Processing	Prof. S.C. Dutta Roy	IIT Delhi	<a href="https://nptel.ac.in/courses/117/102/117102060">https://nptel.ac.in/courses/117/102/117102060</a>	No
			Digital Signal Processing	Prof. Govind Sharma	IIT Kanpur	<a href="https://nptel.ac.in/courses/117/104/117104070">https://nptel.ac.in/courses/117/104/117104070</a>	No
	PE-EC505B	Speech and Audio Processing	Digital Speech Processing	Prof. Shyamal Kumar Das Mandal	IIT Kharagpur	<a href="https://nptel.ac.in/noc/courses/noc17/SEM2/noc17-ec13/">https://nptel.ac.in/noc/courses/noc17/SEM2/noc17-ec13/</a>	No
	PE-EC505C	Power Electronics	<u>Power Electronics</u>	Prof. G.Bhuvaneshwari	IIT Delhi	<a href="https://onlinecourses.nptel.ac.in/noc20_ee97/preview">https://onlinecourses.nptel.ac.in/noc20_ee97/preview</a>	Yes
VII (old Syllabus)	EC701	Wireless Communication & N/W	<u>Introduction To Wireless And Cellular Communications</u>	Prof. David Koilpillai	IIT Madras	<a href="https://onlinecourses.nptel.ac.in/noc20_ee61/preview">https://onlinecourses.nptel.ac.in/noc20_ee61/preview</a>	Yes
	EC702	Microelectronics & VLSI Designs	<u>VLSI Design</u>	Prof. A.N. Chandorkar	IIT Bombay	<a href="https://nptel.ac.in/courses/117/101/117101058/">https://nptel.ac.in/courses/117/101/117101058/</a>	No



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		<a href="#">VLSI Circuits</a>	Prof. S. Srinivasan	IIT Madras	<a href="https://nptel.ac.in/courses/117/106/117106092/">https://nptel.ac.in/courses/117/106/117106092/</a>	No
		<a href="#">VLSI Technology</a>	Dr. NanditaDasgupta	IIT Madras	<a href="https://nptel.ac.in/courses/117/106/117106093/">https://nptel.ac.in/courses/117/106/117106093/</a>	No
EC703A	RF & Microwave Engg	<a href="#">Microwave Engineering</a>	Prof. RatnajitBhattacharjee	IIT Guwahati	<a href="https://onlinecourses.nptel.ac.in/noc20_ee91/preview">https://onlinecourses.nptel.ac.in/noc20_ee91/preview</a>	Yes
		<a href="#">Microwave Theory And Techniques</a>	Prof. Girish Kumar	IIT Bombay	<a href="https://onlinecourses.nptel.ac.in/noc20_ee63/preview">https://onlinecourses.nptel.ac.in/noc20_ee63/preview</a>	Yes
EC703B	Optical Communication & N/W	<a href="#">Fiber Optic Communication Technology</a>	Prof. DeepaVenkitesh	IIT Madras	<a href="https://onlinecourses.nptel.ac.in/noc20_ee79/preview">https://onlinecourses.nptel.ac.in/noc20_ee79/preview</a>	Yes
EC704A	Radar Engg	Principles And Techniques Of Modern Radar Systems	Prof. Amitabha Bhattacharya	IIT Kharagpur	<a href="https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ee58/">https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ee58/</a>	No
EC704B	Embedded Systems	<a href="#">Introduction To Embedded System Design</a>	Prof. Dhananjay V. Gadre, Prof. Badri N Subudhi	NetajiSubhas University of Technology and IIT Jammu	<a href="https://onlinecourses.nptel.ac.in/noc20_ee98/preview">https://onlinecourses.nptel.ac.in/noc20_ee98/preview</a>	Yes
		EMBEDDED SYSTEMS DESIGN	PROF. ANUPAM BASU	IIT Kharagpur	<a href="https://www.digimat.in/nptel/courses/video/106105159/L01.html">https://www.digimat.in/nptel/courses/video/106105159/L01.html</a>	NO
EC705A	Artificial Intelligence (CSE)	An Introduction To Artificial Intelligence	Prof. Mausam	IIT Delhi	<a href="https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs42/">https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs42/</a>	NO
EC705C	Database Management System	<a href="#">Data Base Management System</a>	Prof. ParthaPratim Das, Prof. SamiranChattopadhyay	IIT Kharagpur	<a href="https://onlinecourses.nptel.ac.in/noc20_cs60/preview">https://onlinecourses.nptel.ac.in/noc20_cs60/preview</a>	Yes
EC705D	Power Electronics	<a href="#">Power Electronics</a>	Prof. G.Bhuvaneshwari	IIT Delhi	<a href="https://onlinecourses.nptel.ac.in/noc20_ee97/preview">https://onlinecourses.nptel.ac.in/noc20_ee97/preview</a>	Yes



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VII(N ew)	PE- EC701A	Microwave Theory and Techniques	<u>Microwave Engineering</u>	Prof. RatnajitBhattacharjee	IIT Guwahati	<a href="https://onlinecourses.nptel.ac.in/noc20_ee91/preview">https://onlinecourses.nptel.ac.in/noc20_ee91/preview</a>	Yes
			<u>Microwave Theory And Techniques</u>	Prof. Girish Kumar	IIT Bombay	<a href="https://onlinecourses.nptel.ac.in/noc20_ee63/preview">https://onlinecourses.nptel.ac.in/noc20_ee63/preview</a>	Yes
	PE- EC701B	Satellite Communication	Satellite Communication	Prof. Kalyan Kumar Bandyopadhyay	IIT Kharagpur	<a href="https://nptel.ac.in/noc/courses/noc17/SEM2/noc17-ec14/">https://nptel.ac.in/noc/courses/noc17/SEM2/noc17-ec14/</a>	No
	PE- EC702A	Adaptive Signal Processing	Adaptive Signal Processing	Prof. M. Chakraborty	IIT Kharagpur	<a href="https://nptel.ac.in/courses/117/105/117105075/">https://nptel.ac.in/courses/117/105/117105075/</a>	No
	PE- EC702B	Digital Image and Video Processing	Digital Image Processing	Prof. Prabir Kumar Biswas	IIT Kharagpur	<a href="https://nptel.ac.in/noc/courses/noc18/SEM2/noc18-ee40/">https://nptel.ac.in/noc/courses/noc18/SEM2/noc18-ee40/</a>	No
	PE- EC703A	Embedded Systems	<u>Introduction To Embedded System Design</u>	Prof. Dhananjay V. Gadre, Prof. Badri N Subudhi	NetajiSubhas University of Technology and IIT Jammu	<a href="https://onlinecourses.nptel.ac.in/noc20_ee98/preview">https://onlinecourses.nptel.ac.in/noc20_ee98/preview</a>	Yes
			EMBEDDED SYSTEMS DESIGN	PROF. ANUPAM BASU	IIT Kharagpur	<a href="https://www.digimat.in/nptel/courses/video/106105159/L01.html">https://www.digimat.in/nptel/courses/video/106105159/L01.html</a>	No
	PE- EC703B	Wireless Sensor Networks	Wireless Adhoc And Sensor Networks	Prof. SudipMisra	IIT Kharagpur	<a href="https://nptel.ac.in/courses/106/105/106105160/">https://nptel.ac.in/courses/106/105/106105160/</a>	No
	PE- EC703C	Wavelet Transforms	Introduction to Time- Frequency Analysis and Wavelet Transforms	Dr. ArunK.Tangirala	IIT Madras	<a href="https://nptel.ac.in/courses/103/106/103106114/">https://nptel.ac.in/courses/103/106/103106114/</a>	No



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**Course mapping for Credit Transfer Scheme (Biotechnology)**

Semester	Course Code	MAKAUT, WB Course Name	Alterative NPTEL/ Swayam Course	Instructor Name	Institute	Course link
I						
III	ESC 301	Analog and Digital Electronics	ANALOG ELECTRONIC CIRCUITS	PROF. PRADIP MANDAL	IIT KGP	
III	PCC-CS301	Data Structure & Algorithms	DATA STRUCTURE AND ALGORITHMS	PROF. NAVEEN GARG	IIT DELHI	
			PROGRAMMING, DATA STRUCTURES AND ALGORITHMS USING PYTHON	PROF. MADHAVAN MUKUND	CMI	
			DATA STRUCTURE AND ALGORITHMS USING JAVA	PROF. DEBASIS SAMANTA	IIT KGP	
<b>BIOTECHNOLOGY</b>						
III	PC-BT-301	Thermodynamics and Kinetics for Biotechnology	Chemical Engineering Thermodynamics	Prof. Jayant K. Singh	IITK	<a href="https://onlinecourses.nptel.ac.in/noc20_ch34/preview">https://onlinecourses.nptel.ac.in/noc20_ch34/preview</a>
			Thermodynamics for Biological systems: Classical and Statistical aspects	Prof. G.K. Suraishkumar	IITM	<a href="https://nptel.ac.in/courses/102/106/102106082/">https://nptel.ac.in/courses/102/106/102106082/</a>



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IV	PC-BT-403	Industrial Microbiology and Enzyme Technology	Industrial Biotechnology	Prof. Debabrata Das	IITKGP	<a href="https://nptel.ac.in/courses/102/105/102105058/">https://nptel.ac.in/courses/102/105/102105058/</a>
V	PE-BT-501	Bioreactor design and analysis	Chemical RxnEngg-I	Prof. BishnupadaMandal	IITG	<a href="https://onlinecourses.nptel.ac.in/noc20_ch25/preview">https://onlinecourses.nptel.ac.in/noc20_ch25/preview</a>
IV	OE-BT 401	Numerical Methods and Biostatistics	Introduction to Biostatistics	Prof. ShamikSen	IITB	<a href="https://onlinecourses.nptel.ac.in/noc20_bt28/preview">https://onlinecourses.nptel.ac.in/noc20_bt28/preview</a>
II	MBT 201	Advanced Bioinformatics	Computer Aided Drug Design	Prof. MukeshDoble	IITM	<a href="https://onlinecourses.nptel.ac.in/noc20_bt23/preview">https://onlinecourses.nptel.ac.in/noc20_bt23/preview</a>
IV	OE-BT 401	Numerical Methods and Biostatistics	Numerical methods	Prof. Ameeya Kumar Nayak Prof. Sanjeev Kumar	IITR	<a href="https://onlinecourses.nptel.ac.in/noc20_ma33/preview">https://onlinecourses.nptel.ac.in/noc20_ma33/preview</a>
V	PC-BT501	Genetics	Human Genetics	Prof. NB Ramachandra	University Of Mysore	<a href="https://onlinecourses.swayam2.ac.in/cec20_bt17/preview#">https://onlinecourses.swayam2.ac.in/cec20_bt17/preview#</a>





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## Course mapping for Credit Transfer Scheme for B. Tech. in Mechanical Engineering

**(New Syllabus w.e.f. AY:2018-19)**

Semester	Course Code	MAKAUT, WB Course Name	Alterative NPTEL/ Swayam Course	Instructor Name	Institute	Course link
III	BS-M301	Mathematics III				
	BS-BIO301	Biology				
	ES-ECE301	Basic Electronics Engineering				
	ES-ME301	Engineering Mechanics	Engineering Mechanics	Prof. K. Ramesh	IIT Madras	<a href="https://swayam.gov.in/nd1_noc20_me46/preview">https://swayam.gov.in/nd1_noc20_me46/preview</a>
	PC-ME301	Thermodynamics	Engineering Thermodynamics	Prof. D. P. Mishra	IIT Kanpur	<a href="https://swayam.gov.in/nd1_noc20_ae09/preview">https://swayam.gov.in/nd1_noc20_ae09/preview</a>
			Concepts of Thermodynamics	Prof. SumanChakraborty Prof. AdityaBandopadhyay	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_me51/preview">https://swayam.gov.in/nd1_noc20_me51/preview</a>
			Thermodynamics	Prof. Anand T. N. C	IITM	<a href="https://swayam.gov.in/nd1_noc20_ce27/preview">https://swayam.gov.in/nd1_noc20_ce27/preview</a>
PC-ME302	Manufacturing Processes	Fundamentals of manufacturing processes	Prof. D. K. Dwivedi	IITR	<a href="https://swayam.gov.in/nd1_noc20_me67/preview">https://swayam.gov.in/nd1_noc20_me67/preview</a>	
V	PC-ME501	Heat Transfer	Conduction and	Prof.	IIT KGP	<a href="https://onlinecourses.nptel.ac.in/noc20_me19/pre">https://onlinecourses.nptel.ac.in/noc20_me19/pre</a>



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			Convection Heat Transfer	SumanChakraborty Prof. Sankar Kumar Som		<a href="#">view</a>
			Heat Transfer	Prof. SunandoDasgupta	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_ch21/preview">https://swayam.gov.in/nd1_noc20_ch21/preview</a>
	PC-ME502	Solid Mechanics	Solid Mechanics	Prof. Ajeet Kumar	IITD	<a href="https://swayam.gov.in/nd1_noc20_me84/preview">https://swayam.gov.in/nd1_noc20_me84/preview</a>
	PC-ME503	Kinematics & Theory of Machines	Kinematics of Mechanisms and Machines	Prof. AnirvanDasGupta	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_me21/preview">https://swayam.gov.in/nd1_noc20_me21/preview</a>
	HM-HU501	Effective Technical Communication	Speaking Effectively	Prof. Anjali Gera Roy	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_hs14/preview">https://swayam.gov.in/nd1_noc20_hs14/preview</a>
	MC501	Essence of Indian Knowledge Tradition				
VII	PC-ME701	Advanced Manufacturing Technology	Manufacturing Process Technology I & II	Prof. Shantanu Bhattacharya	IITK	<a href="https://swayam.gov.in/nd1_noc20_me14/preview">https://swayam.gov.in/nd1_noc20_me14/preview</a>
	HM-HU701	Economics for Engineers				
	<i>Professional Elective (Thermo-Fluid Group)</i>					
	A1	Internal Combustion Engines and Gas Turbines	IC Engines and Gas Turbines	Prof. Pranab K. Mondal Prof. Vinayak N. Kulkarni	IITG	<a href="https://swayam.gov.in/nd1_noc20_me42/preview">https://swayam.gov.in/nd1_noc20_me42/preview</a>
A2	Automobile	Fundamentals of	Prof. C. S.	IITM	<a href="https://swayam.gov.in/nd1_noc20_de06/preview">https://swayam.gov.in/nd1_noc20_de06/preview</a>	



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		Engineering	Automotive Systems	Shankar Ram		
A3		Gas Dynamics and Jet Propulsion				
A4		Refrigeration and Air Conditioning	Refrigeration and air-conditioning	Prof. Ravi Kumar	IITR	<a href="https://swayam.gov.in/nd1_noc20_me71/preview">https://swayam.gov.in/nd1_noc20_me71/preview</a>
A5		Turbo Machinery	Fluid dynamics and turbomachines	Prof. DhimanChatterjee Prof. ShamitBakshi	IITM	<a href="https://swayam.gov.in/nd1_noc20_me75/preview">https://swayam.gov.in/nd1_noc20_me75/preview</a>
A6		Fluid Power Control				
A7		Advanced Fluid Mechanics	Advanced Fluid Mechanics	Prof. SumanChakraborty	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_me54/preview">https://swayam.gov.in/nd1_noc20_me54/preview</a>
A8		Analysis and Performance of Fluid Machines	Experimental Methods in Fluid Mechanics	Prof. Pranab K. Mondal	IITG	<a href="https://swayam.gov.in/nd1_noc20_me07/preview">https://swayam.gov.in/nd1_noc20_me07/preview</a>
A9		Computational Fluid Dynamics	Computational Fluid Dynamics using Finite Volume Method	Prof. Kameswararao Anupindi	IITM	<a href="https://swayam.gov.in/nd1_noc20_me82/preview">https://swayam.gov.in/nd1_noc20_me82/preview</a>
			Computational	Prof.	IITM	<a href="https://swayam.gov.in/nd1_noc20_ch05/preview">https://swayam.gov.in/nd1_noc20_ch05/preview</a>



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			Fluid Dynamics	SreenivasJayanti		
			Foundation of Computational Fluid Dynamics	Prof. Vengadesan	IITM	<a href="https://swayam.gov.in/nd1_noc20_me64/preview">https://swayam.gov.in/nd1_noc20_me64/preview</a>
A10	Power Plant Engineering	Power Plant Engineering	Power Plant Engineering	Prof. Ravi Kumar	IITR	<a href="https://swayam.gov.in/nd1_noc20_me10/preview">https://swayam.gov.in/nd1_noc20_me10/preview</a>
A11	Cryogenics					
A12	Introduction to Wind Engineering					
A13	Elements of Atmospheric Fluid Dynamics					
<i>Professional Elective (Design Group)</i>						
B1	Composite Materials	Introduction to Composites	Prof. NachiketaTiwari	IITK	<a href="https://swayam.gov.in/nd1_noc20_me95/preview">https://swayam.gov.in/nd1_noc20_me95/preview</a>	
		Building Materials and Composites	Prof. Sumana Gupta	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_ar04/preview">https://swayam.gov.in/nd1_noc20_ar04/preview</a>	
B2	Selection and Testing of Materials	Theory and Practice of Non Destructive Testing	Prof. RanjitBauri	IITM	<a href="https://swayam.gov.in/nd1_noc20_mm07/preview">https://swayam.gov.in/nd1_noc20_mm07/preview</a>	



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	B3	Mechanical Vibration	Introduction to Mechanical Vibration	Prof. Anil Kumar	IITR	<a href="https://swayam.gov.in/nd1_noc20_me66/preview">https://swayam.gov.in/nd1_noc20_me66/preview</a>
	B4	Tribology	Friction and Wear of materials : Principle and case studies	Prof. B. V. Manoj Kumar Prof. BikramjitBasu	IITR & IISc	<a href="https://swayam.gov.in/nd1_noc20_mm12/preview">https://swayam.gov.in/nd1_noc20_mm12/preview</a>
	B5	Finite Element Analysis	Basics Of Finite Element Analysis-I	Prof. NachiketaTiwari	IITK	<a href="https://swayam.gov.in/nd1_noc20_me91/preview">https://swayam.gov.in/nd1_noc20_me91/preview</a>
	B6	Mechatronics				
<i>Professional Elective (Manufacturing Group)</i>						
	C1	Advanced Welding Technology	Advances in welding and joining technologies	Prof. Swarup Bag	IITG	<a href="https://swayam.gov.in/nd1_noc20_me65/preview">https://swayam.gov.in/nd1_noc20_me65/preview</a>
	C2	Quantity Production Methods	Theory of Production Processes	Prof. Pradeep Kumar Jha	IITR	<a href="https://swayam.gov.in/nd1_noc20_me73/preview">https://swayam.gov.in/nd1_noc20_me73/preview</a>
	C3	3D Printing and Design	Rapid Manufacturing	Prof. J. Ramkumar Prof. Amandeep Singh	IITK	<a href="https://swayam.gov.in/nd1_noc20_me50/preview">https://swayam.gov.in/nd1_noc20_me50/preview</a>



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C4	Micro and Nano Manufacturing	Introduction To Mechanical Micro Machining	Prof. Ajay M Sidpara	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_me15/preview">https://swayam.gov.in/nd1_noc20_me15/preview</a>
C5	CAD/CAM	Computer Integrated Manufacturing	Prof. J. Ramkumar Prof. Amandeep Singh	IITK	<a href="https://swayam.gov.in/nd1_noc20_me44/preview">https://swayam.gov.in/nd1_noc20_me44/preview</a>
C6	Robotics	Introduction to robotics	Prof. Asokan T Prof. BalaramanRavi ndran Prof. Krishna Vasudevan	IITM	<a href="https://swayam.gov.in/nd1_noc20_de11/preview">https://swayam.gov.in/nd1_noc20_de11/preview</a>
		Robotics	Prof. D. K. Pratihar	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_me56/preview">https://swayam.gov.in/nd1_noc20_me56/preview</a>
C7	Material Handling				
C8	Principles and Practices of Management	Principles of Management	Prof. SusmitaMuhop adhyay Prof. S. Srinivasan	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_mg58/preview">https://swayam.gov.in/nd1_noc20_mg58/preview</a>
C9	Process Planning and Cost				



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	Estimation				
C10	Maintenance Engineering				
<i>Open Electives</i>					
A	Industrial Engineering	Principles of Industrial Engineering	Prof. D K Dwivedi	IITR	<a href="https://swayam.gov.in/nd1_noc20_me43/preview">https://swayam.gov.in/nd1_noc20_me43/preview</a>
B	Total Quality Management	Total Quality Management - I	Prof. Raghu NandanSengupta	IITK	<a href="https://swayam.gov.in/nd1_noc20_mg34/preview">https://swayam.gov.in/nd1_noc20_mg34/preview</a>
C	Project Management	Project management for managers	Prof. Mukesh Kumar Barua	IITR	<a href="https://swayam.gov.in/nd1_noc20_mg48/preview">https://swayam.gov.in/nd1_noc20_mg48/preview</a>
D	Entrepreneurship Development	Entrepreneurship	Prof. C Bhaktavatsala Rao	IITM	<a href="https://swayam.gov.in/nd1_noc20_mg35/preview">https://swayam.gov.in/nd1_noc20_mg35/preview</a>
		Entrepreneurship Essentials	Prof. Manoj Kumar Mondal	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_ge08/preview">https://swayam.gov.in/nd1_noc20_ge08/preview</a>
E	Introduction to Product Design and Development	Product Design and Development	Prof. Inderdeep Singh	IITR	<a href="https://swayam.gov.in/nd1_noc20_me69/preview">https://swayam.gov.in/nd1_noc20_me69/preview</a>
F	Safety and Occupational Health				



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G	Industrial Pollution and Control				
H	Energy Conservation and Management	Energy conservation and waste heat recovery	Prof. P. K. Das Prof. A Bhattacharya	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_mm20/preview">https://swayam.gov.in/nd1_noc20_mm20/preview</a>
I	Non-conventional Energy Sources	Non-Conventional Energy Resources	Prof. PrathapHarido ss	IITM	<a href="https://swayam.gov.in/nd1_noc20_ge06/preview">https://swayam.gov.in/nd1_noc20_ge06/preview</a>
J	Waste to Energy- An Overview	Waste to Energy Conversion	Prof. P. Mondal	IITR	<a href="https://swayam.gov.in/nd1_noc20_ch16/preview">https://swayam.gov.in/nd1_noc20_ch16/preview</a>
K	Biomechanics and Biomaterials	Medical Biomaterials	Prof. MukeshDoble	IITM	<a href="https://swayam.gov.in/nd1_noc20_bt12/preview">https://swayam.gov.in/nd1_noc20_bt12/preview</a>
L	Computational Methods in Engineering				
M	Automation & Control	Industrial Automation And Control	Prof. Siddhartha Mukhopadhyay	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_me39/preview">https://swayam.gov.in/nd1_noc20_me39/preview</a>
N	Internet of Things (IoT)	Introduction to internet of things	Prof. SudipMisra	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_cs66/preview">https://swayam.gov.in/nd1_noc20_cs66/preview</a>
O	Artificial Intelligence (AI)	Fundamentals Of Artificial	Prof. Shyamanta M.	IITG	<a href="https://swayam.gov.in/nd1_noc20_me88/preview">https://swayam.gov.in/nd1_noc20_me88/preview</a>





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			Intelligence	Hazarika		
			An Introduction to Artificial Intelligence	Prof. Mausam	IITD	<a href="https://swayam.gov.in/nd1_noc20_cs42/preview">https://swayam.gov.in/nd1_noc20_cs42/preview</a>
P	Block Chain		Introduction to Blockchain Technology and Applications	Prof. SandeepShukla	IITK	<a href="https://swayam.gov.in/nd1_noc20_cs01/preview">https://swayam.gov.in/nd1_noc20_cs01/preview</a>
Q	Cyber Security		Cryptography and Network Security	Prof. SouravMukhopadhyay	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_cs21/preview">https://swayam.gov.in/nd1_noc20_cs21/preview</a>
R	Quantum Computing					
S	Data Sciences		Data Science for Engineers	Prof. RangunathanRengasamy Prof. Shankar Narasimhan	IITM	<a href="https://swayam.gov.in/nd1_noc20_cs72/preview">https://swayam.gov.in/nd1_noc20_cs72/preview</a>
T	Machine Learning		Introduction to Machine Learning	Prof. BalaramanRavindran	IITM	<a href="https://swayam.gov.in/nd1_noc20_cs73/preview">https://swayam.gov.in/nd1_noc20_cs73/preview</a>
U	Virtual Reality (VR)					
V	Water Resource Engineering		Water Supply Engineering	Prof. Manoj Kumar Tiwari	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_ce23/preview">https://swayam.gov.in/nd1_noc20_ce23/preview</a>



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**B.Tech. in Mechanical Engineering (Old Syllabus w.e.f. AY:2010-11)**

Semester	Course Code	MAKAUT, WB Course Name	Alterative NPTEL/ Swayam Course	Instructor Name	Institute	Course link
VII	ME701	Power Plant Engineering	Power Plant Engineering	Prof. Ravi Kumar	IITR	<a href="https://swayam.gov.in/nd1_noc20_me10/preview">https://swayam.gov.in/nd1_noc20_me10/preview</a>
	ME702	Advanced Manufacturing Technology	Manufacturing Process Technology I & II	Prof. Shantanu Bhattacharya	IITK	<a href="https://swayam.gov.in/nd1_noc20_me14/preview">https://swayam.gov.in/nd1_noc20_me14/preview</a>
	ME703A	Maintenance Engineering				
	ME703B	Renewable Energy Systems	Non-Conventional Energy Resources	Prof. PrathapHaridoss	IITM	<a href="https://swayam.gov.in/nd1_noc20_ge06/preview">https://swayam.gov.in/nd1_noc20_ge06/preview</a>
	ME703C	Tribology	Friction and Wear of materials : Principle and case studies	Prof. B. V. Manoj Kumar Prof. BikramjitBasu	IITR & IISc	<a href="https://swayam.gov.in/nd1_noc20_mm12/preview">https://swayam.gov.in/nd1_noc20_mm12/preview</a>
	ME704A	Quantity Production Method	Theory of Production Processes	Prof. Pradeep Kumar Jha	IITR	<a href="https://swayam.gov.in/nd1_noc20_me73/preview">https://swayam.gov.in/nd1_noc20_me73/preview</a>
	ME704B	Advanced Welding Technology	Advances in welding and joining technologies	Prof. Swarup Bag	IITG	<a href="https://swayam.gov.in/nd1_noc20_me65/preview">https://swayam.gov.in/nd1_noc20_me65/preview</a>
	ME704C	Computational				



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		Methods in Engineering				
ME705A	Software Engineering	Software Engineering	Prof. Rajib Mall	IIT KGP	<a href="https://swayam.gov.in/nd1_noc20_cs68/preview">https://swayam.gov.in/nd1_noc20_cs68/preview</a>	
ME705B	Industrial Instrumentation					
ME705C	Operations Research	Introduction to Operations Research	Prof. G. Srinivasan	IITM	<a href="https://swayam.gov.in/nd1_noc20_ma23/preview">https://swayam.gov.in/nd1_noc20_ma23/preview</a>	
		Operations Research	Prof. Kusumdeep	IITR	<a href="https://swayam.gov.in/nd1_noc20_ma45/preview">https://swayam.gov.in/nd1_noc20_ma45/preview</a>	
ME705D	Biomechanics & Biomaterials	Medical Biomaterials	Prof. MukeshDoble	IITM	<a href="https://swayam.gov.in/nd1_noc20_bt12/preview">https://swayam.gov.in/nd1_noc20_bt12/preview</a>	



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**Course mapping for Credit Transfer Scheme for B.Tech in Automobile Engineering**

**(New Syllabus w.e.f. AY:2018-19)**

Semester	Course Code	MAKAUT, WB Course Name	Alterative NPTEL/ Swayam Course	Instructor Name	Institute	Course link
III	BS-M 301	Mathematics III (PDE, Probability & Statistics)	Introduction to probability and Statistics	Prof. G. Srinivasan	IIT Madras	<a href="https://swayam.gov.in/nd1_noc20_ma22/preview">https://swayam.gov.in/nd1_noc20_ma22/preview</a>
	BS-BIO 301	Biology				
	ES-ECE 301	Basic Electronics Engineering				
	ES-AUE 301	Engineering Mechanics	Engineering Mechanics	Prof. K. Ramesh	IIT Madras	<a href="https://swayam.gov.in/nd1_noc20_me46/preview">https://swayam.gov.in/nd1_noc20_me46/preview</a>
	PC-AUE 301	Applied Thermodynamics	Engineering Thermodynamics	Prof. D. P. Mishra	IIT Kanpur	<a href="https://swayam.gov.in/nd1_noc20_ae09/preview">https://swayam.gov.in/nd1_noc20_ae09/preview</a>
	PC-AUE 302	Manufacturing Methods	Manufacturing Process Technology I & II	Prof. Shantanu Bhattacharya	IIT Kanpur	<a href="https://swayam.gov.in/nd1_noc20_me14/preview">https://swayam.gov.in/nd1_noc20_me14/preview</a>
V	PC-AUE 501	Automotive Engines	IC Engines and Gas Turbines	Prof. Pranab K. Mondal, Prof. Vinayak N. Kulkarni	IIT Guwahati	<a href="https://swayam.gov.in/nd1_noc20_me42/preview">https://swayam.gov.in/nd1_noc20_me42/preview</a>
	PC-AUE 502	Automotive Body & Chassis Engineering	Fundamentals of Automotive Systems	Prof. C. S. Shankar Ram	IIT Madras	<a href="https://swayam.gov.in/nd1_noc20_de06/preview">https://swayam.gov.in/nd1_noc20_de06/preview</a>
	PC-AUE 503	Heat Transfer	Heat Transfer	Prof. Sunando Dasgupta	IIT Kharagpur	<a href="https://swayam.gov.in/nd1_noc20_ch21/preview">https://swayam.gov.in/nd1_noc20_ch21/preview</a>
	PC-AUE	Design of				



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	504	Machine Element				
	HM-HU 511A	Values & Ethics				
	HM-HU 511B	Education Technology & Society				
VII	PC-AUE 701	Vehicle Dynamics				
	PE-AUE 711A	Alternate Fuels and Energy Systems				
	PE-AUE 711B	CAD/CAM and Modern Manufacturing Methods	Computer Integrated Manufacturing	Prof. J. Ramkumar, Prof. Amandeep Singh	IIT Kharagpur	<a href="https://swayam.gov.in/nd1_noc20_me44/preview">https://swayam.gov.in/nd1_noc20_me44/preview</a>
	PE-AUE 712A	Automotive Component & System Design				
	PE-AUE 712B	Two and Three Wheelers				
	OE-AUE 711A	Quality Control & Reliability Engineering				
	OE-AUE 711B	Machine Learning	Introduction to Machine Learning	Prof. BalaramanRavindran	IIT Madras	<a href="https://swayam.gov.in/nd1_noc20_cs73/preview">https://swayam.gov.in/nd1_noc20_cs73/preview</a>
	OE-AUE 711C	Cloud Computing	Cloud Computing	Prof. SoumyaKantiGhosh	IIT Kharagpur	<a href="https://swayam.gov.in/nd1_noc20_cs65/preview">https://swayam.gov.in/nd1_noc20_cs65/preview</a>



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**Name of Programme: B.Tech in Automobile Engineering (Old Syllabus w.e.f. AY:2010-11)**

Semester	Course Code	MAKAUT, WB Course Name	Alterative NPTEL/ Swayam Course	Instructor Name	Institute	Course link
VII	AUE701	Vehicle Dynamics				
	AUE702	AutomotiveElectrical& ElectronicsSystem.				
	AUE 703A	Combustion &Pollution Control inAutomobile				
	AUE 703B	Robotics and Robotapplication	Robotics	Prof. D. K. Pratihari	IIT Kharagpur	<a href="https://swayam.gov.in/nd1_noc20_me56/preview">https://swayam.gov.in/nd1_noc20_me56/preview</a>
	AUE 704A	Transport Management				
	AUE 704B	ModernVehicleTechnology				
	AUE 705A	Non-DestructiveTesting Methods				
	AUE 705B	MaintenanceEngineering				



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**Course mapping for Credit Transfer Scheme (B. Tech in Chemical Engineering)**

Semester	Course Code	MAKAUT, WB Course Name	Alterative NPTEL/ Swayam Course	Instructor Name	Institute	Course link
III	CHE-PC303	FLUID MECHANICS	FLUID AND PARTICLE MECHANICS	"PROF. SUMESH PROF. BASAVARAJU"	IITM	<a href="https://nptel.ac.in/courses/103/104/103104043/#">https://nptel.ac.in/courses/103/104/103104043/#</a>
III	CHE-PC305	THERMODYNAMICS-II	CHEMICAL ENGINEERING THERMODYNAMICS	PROF. JAYANT K. SINGH	IITK	<a href="https://nptel.ac.in/courses/103/104/103104151/">https://nptel.ac.in/courses/103/104/103104151/</a>
V	CHE-PC502	MASS TRANSFER -II		PROF. CHANDAN DAS	IIT GUWAHATI	<a href="https://nptel.ac.in/courses/103/103/103103154/">https://nptel.ac.in/courses/103/103/103103154/</a>
V	CHE-PEC 504	RENEWABLE ENERGY (Elective)	TECHNOLOGIES FOR CLEAN AND RENEWABLE ENERGY PRODUCTION	PROF. P. MONDAL	IIT ROORKEE	<a href="https://nptel.ac.in/courses/103/107/103107157/">https://nptel.ac.in/courses/103/107/103107157/</a>
VII	CHE-PE701	ENVIRONMENTAL POLLUTION AND CONTROL	ENVIRONMENTAL ENGINEERING	DR. V. C. SRIVASTAVA	IIT ROORKEE	<a href="https://nptel.ac.in/courses/103/107/103107084/">https://nptel.ac.in/courses/103/107/103107084/</a>
VII	CHE-OE702	ADVANCED SEPARATION PROCESSES	NOVEL SEPARATION PROCESSES		IITKharagpur	<a href="https://nptel.ac.in/courses/103/105/103105060/">https://nptel.ac.in/courses/103/105/103105060/</a>



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**Course mapping for Credit Transfer Scheme (B. Tech in CSE & IT)**

NAME OF UG PROGRAM	COURSE NAME AS CURRICULUM OF UNIVERSITY	SEMESTER NO.	RELEVANCE (% SYLLABUS COVERED)	ALTERNATE NPTEL / SWAYAM COURSE NAME	INSTRUCTOR NAME	INSTITUTE
COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	DATA STRUCTURE & ALGORITHMS	III	100%	DATA STRUCTURE AND ALGORITHMS	PROF. NAVEEN GARG	IIT DELHI
			100%	PROGRAMMING, DATA STRUCTURES AND ALGORITHMS USING PYTHON	PROF. MADHAVAN MUKUND	CMI
			100%	DATA STRUCTURE AND ALGORITHMS USING JAVA	PROF. DEBASIS SAMANTA	IIT KGP
	ANALOG ELECTRONIC CIRCUITS	III	100%	ANALOG ELECTRONIC CIRCUITS	PROF. PRADIP MANDAL	IIT KGP
			100%	ANALOG ELECTRONIC CIRCUIT	PROF. SHOURIBRATA CHATTERJEE	IITD
	DIGITAL ELECTRONICS	III	ABOVE 90%	DIGITAL ELECTRONIC CIRCUITS	PROF. GOUTAM SAHA	IIT KGP
	MATHEMATICS-III (DIFFERENTIAL CALCULUS)	III	ABOVE 60%	DIFFERENTIAL CALCULUS IN SEVERAL VARIABLES	PROF. SUDIPTA DUTTA	IIT KANPUR





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**City Campus: BF-142, Sector -I, Salt Lake, Kolkata -700 064**

	OPERATING SYSTEMS	V	100%	INTRODUCTION TO OPERATING SYSTEMS	PROF. CHESTER REBEIRO	IITM
	OBJECT ORIENTED PROGRAMMING	V	75%	PROGRAMMING IN C++	PROF. PARTHA PRATIM DAS	IIT KGP
	CONSTITUTION OF INDIA/ ESSENCE OF INDIAN KNOWLEDGE TRADITION	V	ABOVE 80%	CONSTITUTION OF INDIA AND ENVIRONMENTAL GOVERNANCE: ADMINISTRATIVE AND ADJUDICATORY PROCESS	PROF. SAIRAM BHAT PROF. M. K. RAMESH	NATIONAL LAW SCHOOL OF INDIA UNIVERSITY
	COMPLIER DESIGN	V	100%	COMPILER DESIGN	PROF. SANTANU CHATTOPADHYAY	IIT KGP
	SOFTWARE ENGINEERING	V	100%	SOFTWARE ENGINEERING	PROF. RAJIB MALL	IIT KGP
	THEORY OF COMPUTATION	V	90%	Theory of Automata and Formal Languages	Dr.DigantaGoswami	IIT GUWAHATI
	ARTIFICIAL INTELLIGENCE	V	100%	AN INTRODUCTION TO ARTIFICIAL INTELLIGENCE	PROF. MAUSAM	IIT DELHI



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### **Course mapping for Credit Transfer Scheme for B. Tech in ELECTRICAL ENGINEERING**

Course Name	Discipline	NC_Name	Course duration In weeks	No of credits	Remarks
Analog Electronics Circuits	EE	NPTEL	12	3	PC-EE302
Basic Electric Circuits	EE	NPTEL	12	3	PC-EE301
Control Engineering	EE	NPTEL	12	3	PC-EE503
Digital Electronic Circuits	EE	NPTEL	12	3	PC-EE402
Electrical Machine-I	EE	NPTEL	12	3	PC-EE401
Electrical Machine-II	EE	NPTEL	12	3	PC-EE501
Electrical Measurement and Electronic Instruments.	EE	NPTEL	12	3	PC-EE403
Electromagnetic Theory	EE	NPTEL	12	3	PC-EE-303
Fundamental of Electrical engineering	EE	NPTEL	12	3	ES-EE101
Power Electronics	EE	NPTEL	12	3	PC-EE504