

(Formerly Delhi College of Engineering) ShahbadDaulatpur, Main Bawana Road, Delhi-110042

EXAMINATION DEPARTMENT

F.No. DTU/Examination/2021-22/O/68

Date: 25.05.2021

NOTICE

Registration Schedule for Odd Semster of the Academic Year 2021-2022

1. The schedule for the online registration for the **Odd Semester of the Academic Year 2021-2021** is as follows: -

S.No.	Program	Sem.	Start Date	End Date
1.	B.Tech.	VII	14.06.2021 (Monday)	27.06.2021
2.	D. Iech.	V	16.06.2021 (Wednesday)	(Sunday)
3.	B.Tech. (Evening)	V/VII		
4.	B.Design	V/VII		
5.	BA(H) (Eco.) and BBA	V		
6.	M.Tech.	III	11.06.2021	27.06.2021
7.	M.Tech.(Part time)	III/V	(Friday)	(Sunday)
8.	MSc	III		
9.	MBA(DSM,USME), EMBA, MBA(BA), MBA(FBE) , MBA(IEV)	III		

2. Login using Roll number and Password on the registration portal https://cumsdtu.in/registration_student/login/login.jsp?courseRegistration

- 3. Prior to initiating the registration & filling data online, please go through the guidelines properly.
- There will be no separate registration for Odd Semester Examinations of the Academic Year 2021-2022.
- 5. No Student will be allowed to register after the prescribed date.
- 6. Online registration is mandatory for all the students. Offline Registration is not permissible.
- 7. Students will be able to download and save their registration form and they may have to produce the copy of the registration form in their respective department whenever requested by the authorities of the university.
- 8. Student should not choose same or related Elective which they have already pursued in previous semester(s) or any core course which they have to pursue in forthcoming semester(s).



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- 9. Students are required to regularly visit the website for more instructions.
- 10. For any query related to online registration, Students may contact Examination Branch at <u>exam-support@dtu.ac.in</u>.

(KAMAL PATHAK) Controller of Examination

F.No. DTU/Examination/2021-22/O/68

Dated: 25.05.2021

Copy to:

- 1. PA to VC for kind information to the Hon'ble Vice Chancellor, DTU.
- 2. Registrar, DTU.
- 3. Dean Acad (UG/PG).
- 4. All HODs with a request to circulate among the students.
- 5. Deputy Registrar (Exam).
- 6. Head (CC) with a request to upload the information on University Website.
- 7. Guard File.

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<u>GUIDELINES FOR SELECTION OF COURSES FOR</u> <u>B.TECH.V AND VII SEMESTERS</u>

1. The generic course structure for V Semester is as follows:

S.No.	Code	Title	Area	Cr	L	Т	Р
1.	xx301	Departmental Core Course(DCC)	DCC	4	3	0/1	2/0
2.	xx303	Departmental Core Course(DCC)	DCC	4	3	0/1	2/0
3.		Generic Elective Course -1 (GEC1)	GEC	4	3	0/1	2/0
4.		Generic Elective Course- 2 (GEC2)	GEC	4	3	0/1	2/0
5.		Generic Elective Course- 3 (GEC3)	GEC	4	3	0/1	2/0
6.	HU301/ MG301	Engineering Economics/ Fundamentals of Management	НМС	3	3	0	0
		Total		23			

2. The generic course structure for VII semester is as follows:

S.No.	Code	Title	Area	Cr	L	Т	P
1.	xx401	B.Tech. Project-1	DCC	4			
2.	xx403	Training Seminar	DCC	2			
3.	xx405	Departmental Core Course(DCC)	DCC	4	3	0	2
4.	xx407	Departmental Core Course(DCC)	DCC	4	3	0	2
5.	GEC1	Generic Elective Course -1 (GEC1)	GEC	4	3	0/1	2/0
6.	GEC2	Generic Elective Course- 2 (GEC2)	GEC	4	3	0/1	2/0
		Total		22			

3. A minimum of 20 students is required to run an elective course. In case, sufficient numbers of students are not registered in an elective course, the same shall be withdrawn and the



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student will be given a chance to register for another course out of the available vacancies at that time.

- 4. Students of V Semester interested in opting for Minor Area of Study shall follow the guidelines issued in the notice vide F.No. 105(739)DTU/Acad-UG/2020-21/10318-325 dated 19.04.2021 on Minor Area of Study for students admitted in the academic year 2019-2020. Notice : <u>http://dtu.ac.in/Web/notice/2021/april/file0469.pdf</u> Annexure A: <u>http://dtu.ac.in/Web/notice/2021/april/file0470.pdf</u>
- 5. Student may choose electives from the pool of GECs offered by his/her respective department and/or from GECs offered by the other departments, subject to following :(i) If a student opts a GEC from slot A then he cannot opt for GEC 2/GEC 3 from slot A. Also, he/she cannot opt for GEC 2/GEC 3 which is offered in two slots i.e. A & B or A & C or A & D.

(ii)If a GEC is offered in two slots A & Band the student opts such elective in slot A, then he/she cannot opt for GEC 2/GEC 3 from slots A & B.

(iii) For B.Tech VII Semester: A maximum of 20 students per section from other departments can register in the GECs offered by a particular department.

- 6. The list of GECs offered by various departments for B.Tech. V semester is enclosed as Annexure 1.
- 7. The list of GECs offered by various departments for B.Tech VII semester is enclosed as Annexure 2.
- 8. Students can opt for offline/online MOOC course of 4 credits in a semester in GEC category with prior approval of BOS of the respective department and as per guidelines issued for MOOC courses from time to time.



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Annexure 1

List of Elective Course for V Semester(GEC)

Slot	Course Code	Course-Name	Seats
Ą	AE307	COMBUSTION GENERATED POLLUTION	75
A	BT323	POPULATION GENETICS	75
A	EC305	Semiconductor Device Electronics	150
A	EC315	COMPUTER COMMUNICATION NETWORKS	150
A	EC353	COMPUTER VISION	75
A	EE315	DIGITAL CONTROL AND STATE VARIABLE ANALYSIS	75
A	EE319	DIGITAL SYSTEM DESIGN	75
A	EP305	ATOMIC AND MOLECULAR PHYSICS	75
A	EP307	BIOPHYSICS	75
A	EP351	PHYSICS OF ENGINEERING MATERIALS	75
A	MC305	OPERATION RESEARCH	75
A	ME305	DESIGN OF MACHINE ELEMENTS	300
В	BT319	Drug Design and Delivery	75
В	CE305	MECHANICS OF MATERIALS	75
В	CE307	ADVANCED GEO-TECHNICAL ENGINEERING	75
В	CE309	ENVIRONMENTAL ENGINEERING DESIGN	75
B	CH307	Petroleum Refining Engineering	75
В	CO313	COMPUTER GRAPHICS	225
B	EC307	ANTENNA DESIGN	150
В	EC313	MICROPROCESSORS AND INTERFACING	75
B	EC315	COMPUTER COMMUNICATION NETWORKS	75
B	EC319	CMOS ANALOG INTEGRATED CIRCUIT	150
B	EE307	POWER STATION PRACTICES	75
B	EE313	ENGINEERING ANALYSIS AND DESIGN	75
<u>-</u> В	EE317	RENEWABLE ENERGY SYSTEMS	75
B	EE321	SOFT COMPUTING	75
B	EE325	INTERNET OF THINGS	75
B	EE359	NON-CONVENTIONAL ENERGY SYSTEM	75
B	EN305	SOIL POLLUTION AND REMEDIATION	75
	EN307	PLANNING AND DESIGN OF ENVIRONMENTAL ENGINEERING	75
В		WORKS	
В	EN313	ENVIRONMENTAL TECHNOLOGY & RISK ASSESSMENT	75
В	EP309	QUANTUM INFORMATION AND COMPUTING	75
В	EP423	SPACE AND ATMOSPHERIC SCIENCE-I	75
В	EP427	Thermodynamics of Materials	75
В	IT323	MACHINE LEARNING	75
В	MC307	OBJECT ORIENTED PROGRAMMING	75



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В	ME307	MANUFACTURING TECHNOLOGY -II	300
В	PE353a	SUPPLY CHAIN MANAGEMENT	225
В	PT309	PETROLEUM REFINING ENGINEERING	75
В	SE321	ARTIFICIAL INTELLIGENCE	150
С	AE317	POWER UNITS AND TRANSMISSION	75
С	BT325	CELL BIOLOGY	75
С	CE315	ROCK ENGINEERING	75
С	CE317	SOLID WASTE MANAGEMENT & AIR POLLUTION CONTROL	75
С	CE319	APPLICATION OF GEO-INFORMATICS REMOTE SENSING AND GIS IN ENGINEERING	75
C	CH323	Biomaterials	75
C	CO305	INFORMATION THEORY AND CODING	75
C	CO327	MACHINE LEARNING	150
C	EC309	Bio – Medical Electronics & amp; Instrumentation	150
C	EC319	CMOS ANALOG INTEGRATED CIRCUIT	75
C	EC321	IC TECHNOLOGY	75
C	EC359	VLSI Design	75
C	EE309	SPECIAL ELECTRICAL MACHINES	75
C	EE311	ENERGY EFFICIENT MOTORS	75
C	EE351	POWER ELECTRONICS SYSTEM	75
C	EE353a	Electrical Machines and Power System	75
C	EE355	INSTRUMENTATION SYSTEMS	75
C	EE357	UTILIZATION OF ELECTRICAL ENERGY	75
C	EN311	CLIMATE CHANGE & CDM	75
C	EP307	BIOPHYSICS	75
C	EP431	Advance Materials for Photonic Devices	75
C	EP433	Advance Charactrization Techniques in Material Science	75
C	IT321	MALWARE ANALYSIS	75
C	MC315	MODERN ALGEBRA	75
C	ME353a	RENEWABLE SOURCES OF ENERGY	150
C	ME359a	REFRIGERATION AND AIR CONDITIONING	75
C	PE361a	TOTAL QUALITY MANAGEMENT	75
C	PT319	BIOMATERIALS	75
D	AE309	OPERATIONS RESEARCH	75
D	BT305	Instrumentation in Biotechnology	75
D	CE321	DISASTER PREPAREDNESS AND MITIGATION	75
D	CE325	HUMAN VALUES & ETHICS IN DISASTER MANAGEMENT	75
D	CE327	CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT	75
D	CH319	Rubber Technology	75



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D	CO313	COMPUTER GRAPHICS	75
D	EC313	MICROPROCESSORS AND INTERFACING	150
D	EC323	CONTROL SYSTEMS	75
D	EC357	DIGITAL IMAGE PROCESSING	75
D	EE305	SIGNALS AND SYSTEMS	75
D	EE307	POWER STATION PRACTICES	75
D	EE323	FUNDAMENTALS OF MACHINE LEARNING	75
D	EE325	INTERNET OF THINGS	75
D	IT323	MACHINE LEARNING	75
D	PE307	FINITE ELEMENT METHOD	75
D	PE315	MECHATRONICS	75



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Annexure 2

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List of Electives for B.Tech. VII Semester			
Slot	Course Code	Course-Name	Seats
Р	BT413	NANOBIOTECHNOLOGY	75
Р	CE411	INTERACTION BEHAVIOR OF SOIL STRUCTURES	75
Р	CE413	WATER RESOURCES MANAGEMENT	75
Р	CE415	TRANSPORTATION SAFETY AND ENVIRONMENT	75
Р	EC409	COMPUTER VISION	150
Р	EC411	BIO-MEDICAL SIGNAL IMAGE PROCESSING	75
Р	EE411	POWER SYSTEM MODELLING AND SIMULATION	75
Р	EE421	ADVANCED COMMUNICATIONS	75
Р	EE425	IC TECHNOLOGY	75
Р	EP411	ADVANCED SIMULATION TECHNIQUES IN PHYSICS	75
Р	MC411	Data Warehousing & Data Mining	75
Р	ME409	MECHATRONICS & CONTROL	75
Р	ME411	I.C. ENGINES	75
Р	ME413	METROLOGY	75
Р	ME415	PROJECT MANAGEMENT	75
Q	AE411	VEHICLE MAINTENANCE & TRIBOLOGY	75
Q	BT425	BIOMATERIALS	75
<u> </u>	CE419	SOIL DYNAMICS	75
<u> </u>	CE423	ADVANCED TRANSPORTATION ENGINEERING	75
<u> </u>	EC413	Power Electronics	75
<u> </u>	EC415	System on Chip Design	75
Q	EE423	MICROCONTROLLER & EMBEDDED SYSTEM	75
<u> </u>	EE427	COMPUTER ARCHITECTURE	75
Q	EP415	NANO SCIENCE AND TECHNOLOGY	75
Q	ME419	ROBOTICS & AUTOMATION	75
<u>_</u>	ME421	COMPUTATIONAL FLUID DYNAMICS	75
<u> </u>	ME423	ADVANCED MANUFACTURING PROCESSES	75
<u> </u>	ME427	OPERATIONS RESEARCH	75
<u>~</u> R	EC419	Memory Design	75
R	EC423	Internet and Web Technologies	75
R	EE413	POWER SYSTEM RELIABILITY	75
R	EE417	ADVANCED TOPICS IN ELECTRICAL MACHINES	75
R	EE419	PULSE WIDTH MODULATION FOR POWER CONVERTERS	75
R	EP417	PHOTONICS	75
R	EP423	SPACE AND ATMOSPHERIC SCIENCE-I	75
R	ME429	INDUSTRIAL TRIBOLOGY	75
R	ME431	NON-CONVENTIONAL ENERGY SOURCES	75
R	ME433	COMPUTER INTEGRATED MANUFACTURING	75
R	ME435	OPTIMIZATION TECHNIQUES	75
R	PE417	MATERIALS MANAGEMENT	75
R	PT419	Plastic and Environment	75



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S	AE413	VEHICLE TRANSPORT MANAGEMENT	75
S	CO415	WIRELESS AND MOBILE COMPUTING	150
S	EC425	Mixed Signal Design	75
S	EC427	INFORMATION THEORY AND CODING	75
S	EE415	DESIGN OF ELECTRICAL MACHINES	75
s	EE429	POWER ELECTRONICS APPLICATION TO PHOTO-VOLTAIC SYSTEMS	75
S	EN417	ENVIRONMENTAL RISK ASSESMENT	75
S	EP419	INTRODUCTION TO AUTOMATION AND MOTION CONTROL	75
S	IT427	INTRUSION DETECTION AND INFORMATION WARFARE	75
S	PE411	COMPUTER INTEGRATED DESIGN AND MANUFACTURING	75
S	PE413	ROBOTICS AND AUTOMATION	75
S	PT427	SAFETY & HAZARDS IN CHEMICAL INDUSTRY	75
S	SE417	DATA WAREHOUSING & DATA MINING	75



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Annexure 3

List of Electives for B.Des. V Semester

Course Code	Course-Name
DD331	TYPOGRAPHY-2
DD341	ANIMATION-2
DD351	EXPLORING THE TAXONOMY OF PRODUCT DESIGN
OED361	Clay, Ceramics and Glass Moulding
OED363	Metal, Plastic and Mix Material Study

List of Electives for B.Des. VII Semester

Course Code	Course-Name
DD421	Model Making and Prototyping
DD423	Mobility Design
DD427	Medical Equipment Design
DD433	New Media Studies
DD435	Advance Animation and Moving Image Design
DD441	Augmented and Virtual Reality
DD445	Design for UX
DD447	Service Design



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Annexure 4

List of Electives for Executive MBA III Semester

Course	
Code	Course Name
EFM-01	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
EFM-08	PROJECT APPRAISAL AND FINANCE
EHR-02	COMPENSATION MANAGEMENT
EHR-04	Human Resource Development - Strategies and Systems
EIT-01	DATA WAREHOUSING AND DATABASE MANAGMENT
EIT-11	Data Analytics I
EMK-01	INTERNATIONAL MARKETING MANAGEMENT
EMK-09	DIGITAL MARKETING
ESCM-01	TOTAL QUALITY MANAGMENT
ESCM-06	Business Process Re-Engineering

List of Electives for MBA III Semester(DSM)

MGF-01	Investment Management
MGF-03	Investment Banking and Financial Services
MGF-04	Financial Markets and Institutions
MGH-01	Industrial Relations & Labour Legislation
MGH-03	Organizational Development
MGH-04	Strategic Human Resource Management
MGI-02	BUSINESS SYSTEMS ANALYSIS AND DESIGN
MGI-03	Database Management System
MGM-01	Consumer Behavior
MGM-02	Advertising and Brand Management
MGM-04	International Marketing
MGM-05	Sales and Distribution Management
MGS-01	SCM and E-Commerce
MGS-02	Operation Analytics
MGS-03	Logistic Planning and Strategy



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Annexure 5

List of Electives for M.Sc. III Semester

Course Code	Course Name
MSBT209	Computational Biology
MSBT241	Molecular Therapeutics
MSBT243	Lab based on Elective
MSMA213	Mathematical Modeling & Simulation
MSMA219	Database Management System
MSPH207	Fibre and Integrated Optics
MSPH209	Advance Condense Matter Physics
MSPH213	Advance Numerical Physics
MSPH215	Plasma Physics
MSPH217	Characterization Techniques



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Annexure 6

List of Electives for M.Tech. III / M.Tech.(PT) (III/V) Semester

Credit	Course Code	Course Name
4	BIO6405	Cell and Molecular Biology
4	C&I6401a	SCADA & Energy Management system
4	C&I6405a	Microcontroller & Embedded System
4	GTE6401	PLASTICITY & FRACTURE MECHANICS IN ROCK STRUCTURES
4	GTE6403	THEORY OF ELASTICITY AND PLASTICITY IN GEO MECHANICS
4	HWE6403	ENVIRONMENTAL IMPACT ASSESSMENT
4	HWE6405	WATER POLLUTION CONTROL AND STREAM SANITATION
4	IBT6401	Enzyme Technology and Industrial Applications
4	MOC6405	Wireless Optical Communication
4	NST5401	Computational Physics and Programming
4	NST6401	Nanobiotechnology
4	NST6403	Nanosensors and Devices
4	PES6403	Non Linear Control of Power Electronics Converter
4	PRD6403	Precision Engineering
4	PSY6401	SCADA & ENERGY MANAGEMENT
4	PSY6407	Advanced Electrical Drives
4	SPD6407	Digital Design and verification
4	STE6401	DESIGN OF HYDRAULIC STRUCTURES
4	STE6407	RETROFITTING OF STRUCTURES
4	THE6401	Advanced Power Generation Systems
4	VLS6401	Mixed Signal Design
3	VLS6305	Machine Learning
3	VLS6307	Advance Computer Architecture
3	VLS6309	Embedded Software
3	BIO6301	Nanotechnology in Healthcare
3	C&I6301a	Robot Dynamics & Control
3	C&I6307	Instrumentation Transducers
3	GTE6303	GROUND IMPROVEMENT TECHNIQUES
3	GTE6305	EXCAVATION TECHNOLOGY
3	IBT6301	Industrial Waste water Treatment
3	MOC6305	Quantum Electronics
3	MOC6311	Spread Spectrum Communication
3	NST5305	Material Science at Nanoscale
3	NST6301	Nanolithography and Device Fabrication
3	PES6301	SCADA & Energy Management System
3	PES6307	Optimization Techniques
3	PRD6301	ROBOTICS
3	PSY6301	POWER SYSTEM RELIABILITY
3	PSY6303	TRANSIENTS IN POWER SYSTEMS
3	PSY6309	MODERN ELECTRIC TRACTION SYSTEM
3	SPD6301	Data Analytics



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3	STE6301	INSTRUMENTATION & REHABILITATION OF STRUCTURES
3	STE6303	STRUCTURAL VIBRATION CONTROL
3	STE6307	PROBABILITY & STATISTICAL METHODS IN ENGINEERING
3	THE6305	Exergy Analysis of Thermal Systems
2	BIO6203	Molecular Evolution
2	C&I6203a	Special Topics in Signal Processing
2	C&I6205a	Artificial Intelligence
2	GTE6203	FOUNDATIONS ON WEAK ROCKS
2	HWE6201	SUBSURFACE INVESTIGATIONS
2	HWE6203	INTRODUCTION TO AI TECHNIQUES
2	IBT6201	Bioethics, Biosafety and IPR
2	MOC6205	Special Topics on Microwave Communication
2	NST5201	Seminar
2	NST6201	Spintronic
2	PES6209	Artificial Intelligence
2	PRD6203	Materials Management
2	PSY6203	ELECTRICITY MARKET AND REGULATIONS
2	PSY6207	ENERGY, ECOLOGY AND ENVIRONMENT
2	PSY6209	ARTIFICIAL INTELLIGENCE
2	SPD6203	Multirate signal processing
2	STE6205	FORM WORK FOR CONCRETE STRUCTURES
2	THE6201	Advanced Energy Systems
2	VLS6207	Selected topics in VLSI



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Annexure 7

List of Electives BA(Ho.)Eco. III Semester

FEC		
FEC 013	Digital Film Making	
FEC	Environment Development and Society	
	Generic Elective Course	
BAG 201	Financial Management	
BAG 202	E-Commerce	

List of Electives BA(Ho.)Eco. V Semester

DSE	
BA 303	Economics of Health and Education
BA 304	Applied Econometrics
BA 308	Money and Financial Markets
BA 309	Public Economics



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Annexure 8

List of Electives BBA III Semester

Generic Electives	
GE 002	Productions and Operations Management
GE 007	Financial Markets and Institutions
GE 005	Digital Marketing Analytics

List of Electives BBA V Semester

Finance	Investment Banking and Financial Services
	Investment Analysis and Portfolio Management
	Business Analysis and Valuation
	Financial Modelling and Derivatives
HR	HRD: Systems & Strategies
	Training & Development
	Management of Industrial Relations
	Talent & Knowledge Management
Marketing	Consumer Behaviour
	Advertising and Brand management
	Distribution and Supply chain Management
Management of Global Business	International Trade Policy & Strategy
	International Distribution & Supply Chain
	Management Global Business Environment



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Annexure 9

List of Electives MBA(BA) III Semester

Generic Elective Course	
MBG007	International Financial Management
MBG008	Managing Financial Institutions and Markets
MBG009	Security Analysis and Portfolio Management
MBG004	Internet of things
Discipline Specifi	c Electives
MBD 001	Advanced Machine Learning
MBD004	Financial Analytics
MBD002	Marketing Analytics
MBD006	HR Analytics
MBD007	Time Series Analysis

List of Electives MBA(FB) III Semester

Family Business Management	Leadership and Succession Management in Family Business Professionalization in Family Business
Digital Entrepreneurship	Digital Entrepreneurship and Innovation
	Business Model Validation
	Online Consumer Behaviour
International entrepreneurship	International Competitiveness and Strategic Alliance
	International Marketing
	Export-Import Policies, Procedures and Documentation