

DELHI TECHNOLOGICAL UNIVERSITY
ACADEMIC – PG

F. No. DTU/Acad-PG/ElecSlot/M.Tech/2020/ 442

Dated: 12.06.2020

To
The Head of Department
Dept: AC/AP/BT/CE/COE/ECE/EE/ENE/IT/ME


Subject: Time-Table Slot Fixation for a 2-Credit Elective Course (Elective-3/UEC-1) in M.Tech Semester-I

In pursuance of the 20th Meeting of the Academic Council dated May 10, 2019, a revised M.Tech Scheme of Teaching and Examination was approved wherein a student may opt for either a 2 credit Departmental Elective (Elective-3) from a list of electives being floated by the respective department under Elective-3 or a 2-credit University Elective (University Elective-I) from a list of University Elective-I as approved in the above referred Academic Council.

The list of University Elective-I is attached along with the syllabus for reference in Annexure-I.

Further, a slot for MTI-C2, i.e. a 2-Credit Elective Course (Departmental/University) in reference to the office order No. DTU/Examination/40/2019-20/O/32 dated June 4, 2020 has been fixed on Wednesday from 9:00 AM to 11:00 AM to avoid any overlapping of the elective courses to be offered in the academic session to commence from August, 2020 as mentioned in Annexure-II.

All the HoDs are requested to prepare the timetable of M. Tech. Semester-I for the forthcoming academic session accordingly.


Prof. Suresh C. Sharma
Dean (Acad-PG)

Enclosures: As above

Copy to:

1. PS to the Vice-Chancellor for kind information to the Hon'ble Vice Chancellor.
2. Registrar, DTU.
3. All Deans.
4. Controller of Examinations, DTU.
5. All HoDs with a request to inform the Time-Table Incharge/M.Tech Coordinator of their respective departments.
6. Head CC- with request to upload the same on Acad.(PG) page of DTU website.
7. Guard File.


Dr. Rishu Chaujar

Associate Dean (Acad-PG)

List of University Electives

University Elective-I

1. Entrepreneurship Development.
2. Stress Management by Yoga.
3. Research Writing.
4. Ethics & Human Values.
5. Engineering Economics.
6. Business Communication & Presentation Skills.
7. Communication Skills.
8. Ethics & Technology.

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University Elective I

Entrepreneurship Development

Teaching and Examination Scheme				Credits	Hours/Week			Exam Duration (Hrs)		Relative Weights (%)				
Sem	Subject Code	Course Title	Type		L	T	P	TH	PR	CWS	MTE	ETE	PRS	PRE
I	UEC-5201	Entrepreneurship Development	Elective	2	2	0	0	Yes	No	20	30	50	-	-

Pre-requisite: None

Details of Course

The goal of this course is to develop entrepreneurship skills and create an understanding towards the business model development. The course includes the concept of entrepreneurship and economic development, the factors including entrepreneurial growth, classification and types of entrepreneurs, entrepreneurial competencies and EDP programs. It also encompasses the opportunity/identification and product selection, various enterprise launching formalities and role of support institutions and management of small business.

Suggested Readings :-

S. No.	Name of Books / Authors/ Publishers	Year of Publication/ Reprint
Text Books		
1.	F. Donald F. & Dr. Kuratko, "Entrepreneurship: Theory, Process and Practice", South Western Publication.	2016
Reference Books		
2.	Charantimath, "Entrepreneurship Development and Small Business Enterprise", Pearson Education.	2013
3.	T. Kalpana, Entrepreneurship Theory and Practice, Anmol Publication Pvt. Ltd, Delhi.	2014

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Stress Management by Yoga

Teaching and Examination Scheme				Credits	Hours/Week			Exam Duration (Hrs)		Relative Weights (%)				
Sem	Subject Code	Course Title	Type		L	T	P	TH	PR	CWS	MTE	ETE	PRS	PRE
1	UEC-5203	Stress Management by Yoga	Elective	2	0	0	4	No	Yes	0	0	-	30	70

Pre-requisite: None

Details of Course

This course contains topics of Introduction to Yoga: Origin of Yoga & its brief development. Meaning of Yoga & its importance Yoga as a Science of Art (Yoga Philosophy). Meaning of meditation and its types and principles. Classification of Yoga/Types, Meaning of Asana, its types and principles. Yogic therapies and modern concept of Yoga Naturopathy, Psychology of mantras. Different mudras during prayers. Effect of Asanas on various Systems Difference between Asana and Exercise. Difference between Pranayama and deep breathing. Yogic Diet.

Suggested Readings :-

S. No.	Name of Books / Authors/ Publishers	Year of Publication/ Reprint
Text Books		
1.	B. S. Miller, "Yoga: Discipline of Freedom: The Yoga Sutra Attributed to Patanjali", New York: Bantam Books.	1998
2.	D. Swenson, "Ashtanga Yoga: The Practice Manual: An Illustrated Guide to Personal Practice", Atlantic Publishers.	2007
3.	R. Walsh, "Essential Spirituality", John Wiley and Sons.	2000
Reference Books		
4.	D. Chopra, "Seven Spiritual Laws of Success: A Practical Guide to the Fulfillment of Your Dreams", Amber-Allen Publishing.	1994
5.	S. Cope, "Yoga and the Quest for the True Self", Bantam Books.	2018
6.	W.W. Dwyer, "The Power of Intention", Hay House.	2010
7.	B.K.S. Iyengar, "Light on the Yoga Sutras of Patanjali", Thorsons.	2012
8.	B.K.S. Iyengar, "Light on Pranayama", Unwin Paperbacks.	1983

Research Writing

Teaching and Examination Scheme				Credits	Hours/Week			Exam Duration (Hrs)		Relative Weights (%)				
Sem	Subject Code	Course Title	Type		L	T	P	TH	PR	CWS	MTE	ETE	PRS	PRE
	UEC-5205	Research Writing	Elective	2	2	0	0	Yes	No	20	30	50	-	-

Pre-requisite: None

Details of Course

The primary objective of the course is to make one aware of the basics and structure of formal research writing. Emergent Writing using the Alphabetic Principle, Reading and Writing Through Language, Introducing punctuation, Collaborative writing, Metacognitive Regulations, Peer Interactions and Revision of Narratives, Making Digital Annotations, Structured Writing, Argumentative Writing, Instructive and Argumentative text, Teaching writing: Argumentative text and Oral presentations, Action Research, Writing "in your own words", Adapting to classroom setting, Composing a summary, Reflective thinking and writing.

Suggested Readings :-

S. No.	Name of Books / Authors/ Publishers	Year of Publication/ Reprint
Text Books		
1.	G. Rijlaarsdam, H.V. Den Bergh, M. Couzijn, "Effective Learning and Teaching of Writing", Kluwer Academic Publishers, Second Edition.	2005
Reference Books		
2.	R. Malhotra, "Empirical Research in Software Engineering: Concepts, Analysis & Applications", CRC press.	2013
3.	M. Couzijn and G. Rijlaarsdam, "Learning to Read and Write Argumentative Text by Observation of Peer Learners", Kluwer Academic Publishers.	2005
4.	M. Cargill and P. O'Connor, "Writing Scientific Research Articles: Strategy and Steps", Second Edition, Wiley Blackwell.	2013

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Ethics and Human Values

Teaching and Examination Scheme				Credits	Hours/Week			Exam Duration (Hrs)		Relative Weights (%)				
Sem	Subject Code	Course Title	Type		L	T	P	TH	PR	CWS	MTE	ETE	PRS	PRE
	UEC-5207	Ethics and Human Values	Elective	2	2	0	0	Yes	No	20	30	50	-	-

Pre-requisite: None

Details of Course

This course contains topics of Course Introduction - Need, Basic Guidelines, Content and Process for Value Education, Understanding Harmony in the Human Being - Harmony in Myself, Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship, Understanding Harmony in the Nature and Existence - Whole existence as Co-existence, Implications of the above Holistic Understanding of Harmony on Professional Ethics, Case studies of typical holistic technologies, management models and production systems

Suggested Readings :-

S. No.	Name of Books / Authors/ Publishers	Year of Publication/ Reprint
Text Books		
1.	R. R. Gaur, R. Sangal, G. P. Bagaria, "A Foundation Course in Human Values and Professional Ethics", Excel Books.	2010
2.	E. G. Seebauer, R. L. Berry, "Fundamentals of Ethics for Scientists & Engineers", Oxford University Press.	2000
3.	M. Govindrajran, S. Natrajan & V.S. Senthil Kumar, "Professional Ethics and Human Values", PHI.	2013
Reference Books		
4.	I. Illich, "Energy & Equity", The Trinity Press.	1974
5.	P.L. Dhar, R.R. Gaur, "Science and Humanism", Commonwealth Publishers.	1990
6.	A. N. Tripathy, "Human Values", New Age International Publishers.	2003

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Engineering Economics

Teaching and Examination Scheme				Credits	Hours/Week			Exam Duration (Hrs)		Relative Weights (%)				
Sem	Subject Code	Course Title	Type		L	T	P	TH	PR	CWS	MTE	ETE	PRS	PRE
	UEC-5211	Engineering Economics	Elective	2	2	0	0	Yes	No	20	30	50	-	-

Prerequisite: None

Details of Course

A primary goal of this course is to understand basic economic concepts and learn the role of science in economic development. Basic Concepts: demand, supply, elasticity of demand, production process and factors, market, monopoly, perfect competition and various cost concepts. Money, bank, tax and subsidy, monetary and fiscal policy, inflation and business cycle, international trade. Role of science engineering and technology in economic development: salient features of the Indian Economy, inclusive growth and relevance for the Indian Economy, Globalisation and opening up, GDP definition and its measurement, green revolution and white revolution, entrepreneurship, how environment has changed after advent of IT and Globalisation. interest formulas and their applications, calculations of economic equivalence.

Suggested Readings :-

S. No.	Name of Books / Authors/ Publishers	Year of Publication/ Reprint
Text Books		
1.	G.J. Thuesen & W.J. Fabrycky, Engineering Economy, Prentice-Hall of India Private Limited.	2007
2.	W. G. Sullivan, J. A. Bontadelli & E. M. Wicks, Engineering Economy, Pearson Education Asia.	2009
Reference Books		
3.	S. Singh, "Economics for Engineering Students", IK International Publishing House Pvt. Ltd.	2014
4.	D. G. Newman, J. P. Lavelle & T. G. Eschenbach, "Engineering Economic Analysis", Engineering Press.	2001

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Business Communication and Presentation Skills

Teaching and Examination Scheme				Credits	Hours/Week			Exam Duration (Hrs)		Relative Weights (%)				
Sem	Subject Code	Course Title	Type		L	T	P	TH	PR	CWS	MTE	ETE	PRS	PRE
	UEC-5213	Business Communication and Presentation Skills	Elective	2	2	0	0	Yes	No	20	30	50	-	-

Pre-requisite: None

Details of Course

A primary goal of this course is to develop skills and competencies in students to be able to communicate effectively through the written and oral medium. The course includes basics of communication, the communication model, its barriers and facilitators, principles of effective communication and the 7 C's, effective communication and negotiation by learning the art of making effective presentations, meetings, interview, along with learning effective business communication and cross-cultural communication, formal writing and its importance, with various approaches to writing business letters, inquiries, claims, invitations etc. and report writing, along with non-verbal communication and its various types.

Suggested Readings :-

S. No.	Name of Books / Authors/ Publishers	Year of Publication/ Reprint
Text Books		
1.	R.V. Lesikar & J.D. Petit, "Basic Business Communication: Theory and Application", Tata McGraw Hill, Tenth Edition.	2007
2.	H.A. Murphy, W. Hildebrandt, J.P. Thomas, "Effective Business Communications", McGraw Hill, Seventh Edition.	2008
3.	J.V. Thill & C.L. Bovee, "Excellence in business communication", Pearson, Twelfth Edition.	2017
4.	L. Brown, "How to write anything", W.W. Norton and Company.	2014

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Reference Books

5.	F.E. Dent & M. Brent, "Influencing: Skills and Techniques for Business Success", Palgrave Macmillan.	2006
6.	R. Ludlow & F. Panton, "The Essence of Effective Communications", Prentice Hall, New York.	1992

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Communication Skills

Teaching and Examination Scheme				Credits	Hours/Week			Exam Duration (Hrs)		Relative Weights (%)				
Sem	Subject Code	Course Title	Type		L	T	P	TH	PR	CWS	MTE	ETE	PRS	PRE
	UTC-5215	Communication Skills	Elective	2	2	0	0	Yes	No	20	30	50	-	-

Pre-requisite: None

Details of Course

The objective of the course is to impart essential skills required for effective communication in English language. It includes basic introduction to communication as well as grammar and its usage. Phonetics of English, Vowels, Consonants, syllables, transcription of words and simple sentences using IPA: Speech Sounds and their articulation; phonemes, Syllable, Stress, Transcription of words and Simple Sentences. Composition- Descriptive, Explanatory, Analytical and Argumentative Writing Paragraphs (Essay, Summary, Abstract) Reading and Comprehension, Providing working mechanism of instruments, appliances, description of processes, their operations and descriptions; Drawing Inferences from graphs, charts, Diagrams etc.

Suggested Readings :-

S. No.	Name of Books / Authors/ Publishers	Year of Publication/ Reprint
Text Books		
1.	V.N. Arora & L. Chandra, "Improve your Writing", Oxford University Press.	2013
2.	M. Raman, S. Sharma, "Technical Communication: Principles and Practice", Oxford University Press.	2014
3.	P. Roach, "English Phonetics and Phonology: A Practical Course", Cambridge University Press.	2014
Reference Books		
4.	M.M. Maison, "Examine your English", Orient Blackswan.	2009
5.	S. Sharma & B. Sharma, "Communication Skills for Engineers & Scientists", PHI.	2012

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Ethics and Technology

Teaching and Examination Scheme				Credits	Hours/Week			Exam Duration (Hrs)		Relative Weights (%)				
Sem	Subject Code	Course Title	Type		L	T	P	TH	PR	CWS	MTE	ETE	PRS	PRE
	UEC-5217	Ethics and Technology	Elective	2	2	0	0	Yes	No	20	30	50	-	-

Pre-requisite: None

Details of Course

The goal of the course is to help students understand the relations between ethics and technology. It includes introduction to ethics, morality, meta ethical theories, normative theories, ethical principles. Human Rights, Capital Punishment, Suicide, Euthanasia, Santhara, Female Feticide, Surrogacy, Feminism, Professional Ethics: Professionalism, Market/Business Concerns Engineering Ethics, Engineering Case Studies. Industrial Revolution, Age of Information Technology, Social and Economic Implication.

Suggested Readings :-

S. No.	Name of Books / Authors/ Publishers	Year of Publication/ Reprint
Text Books		
1.	J. Rachel, "The Elements of Moral Philosophy", McGraw Hill.	2003
2.	N. Hartmann, "Moral Phenomena", New Macmillan.	1950
3.	R. Subramaniam, "Professional Ethics Includes Human Values", Oxford University Press.	2013
Reference Books		
4.	Aristotle, "Nichomachian Ethics", Oxford University Press.	1926

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Annexure-II

DELHI TECHNOLOGICAL UNIVERSITY

Slot for Elective: MTI-C2 in M.Tech- Semester-I

Days/Time	08:00 To 09:00	09:00 To 10:00	10:00 To 11:00	11:00 To 12:00	12:00 To 01:00	01:00 To 02:00	02:00 To 03:00	03:00 To 04:00	04:00 To 05:00	05:00 To 06:00
MON										
TUE										
WED		Departmental/University Elective: MTI- C2								
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