

1.3.1		n integrates crosscutting issues relevan	nt to Professional Ethics, Gender, Human Values, ulum
S.NO	YEAR	COURSE CODE	COURSE NAME
		Human Va	alues
1	2017-18	HU-103	Human Values
2	2017-18	HU-104	Human Values: Activities Lab
	2018-19,		
3	19 - 20	1FY1 - 05/2FY1 - 05	Human Values
4	2018-19	1FY1-23	Human Values: Activities Lab
5	2019-20	1FY1-23	Human Values: Activities and Sports Lab
	2015-		
	16,16-		
6	17,17-18		Humanities and Social Sciences
	1	Professional	Ethics
	2015-	101	
1	16,16-17	101	Communicative English
2	2015- 16,16-17	201	Communication Techniques
	2015-	201	Communication recliniques
3	16,16-17	211	Communication Technique Lab
4	2017-18	HU-101	Communication Skills
5	2017-18	HU-102	Communication Skills Lab.
	2018-19,	110 102	Communication Skins Lab.
6	19 - 20	1FY1-04/2FY1-04	Communication Skills
	2018-19,		
7	19 - 20	1FY1-22/2FY1 - 22	Language Lab
	2018-	3CS/IT/EC/CE/EE/ME 1-	
8	19,19-20	02,4CS/IT1-02	Technical Communication
	2015-		
0	16,16-	200114 500114 500114 5040104	Des Construct Edition of Discourse Management
9	17,17-18 2015-	3CETTA, SECTTA, SEETTA, SMETUA	Professional Ethics and Disaster Management
	16,16-		
10	17,17-18	6EC11A	Personality Development and General Aptitude
	2015-		The state of the s
	16,16-		
11	17,17-18	7EC9A	Practical Training & Industrial Visit
	2015-		
	16,16-		
12	17,17-18	4CS/IT10A,3EC11A,6EE11A	Entrepreneurship Development
	2015-		
13	16,16- 17,17-18	8ME2A	Laws of Engineers
13	2018-	OIVIE 4 A	Laws of Engineers
14	19,19-20	3ME7-13	Industrial Training
	2018-		
15	19,19-20	5ME4-05	Principle of Management
16	2015-		PTS
		•	



17,17-  18,2018-  19,19-20   Seminar	17	16,16-		Project
18				
Servironment and sustainability				
2015-   16,16-	18	19,19-20		Seminar
16,16-		<b>.</b>	Environment and s	sustainability
1   17,17-18   CE-101   Management				
2015-   16,16-   2   17,17-18   5CE6.3A   Solid Waste Management			CF 101	
16,16-   2   17,17-18   SCE6.3A   Solid Waste Management	1		CE-101	Management
2   17,17-18   5CE6.3A   Solid Waste Management				
2015-   16,16-   2015-   16,16-   Environmental Engineering-I	2		5CE6.3 A	Solid Waste Management
16,16-   3   17,17-18   5CE2A			JCL0.JA	Solid Waste Management
3   17,17-18   5CE2A				
2015-   16,16-   2015-   16,16-   Environmental Engineering-II	3		5CE2A	Environmental Engineering-I
4   17,17-18   6CE2A				
2015-   16,16-   5   17,17-18   5CE7A   Environmental Engineering Lab-I		16,16-		
16,16-   5   17,17-18   5CE7A   Environmental Engineering Lab-I	4	17,17-18	6CE2A	Environmental Engineering-II
5   17,17-18   5CE7A				
2015-   16,16-   6   17,17-18   6CE7A   Environmental Engineering Lab-II   2015-   16,16-   7   17,17-18   7CE1A   Water Resource Engineering-I   2015-   16,16-   8   17,17-18   7CE3A   Rural Water Supply and Sanitation   2015-   16,16-   9   17,17-18   7CE7A   Design of Water Resource Structures-I   2015-   16,16-   10   17,17-18   8CE1A   Water Resource Engineering-II   2015-   16,16-   11   17,17-18   8CE4.3A   Earthquake Resistant Construction & Design   2015-   16,16-   12   17,17-18   8CE5A   Design of Water Resource Structures-II   13   2019-20   5CE4-05   Water Resource Engineering   14   2019-20   5CE5-11   Air & Noise Pollution and Control   15   2019-20   5CE5-12   Disaster Management   10   10   10   10   10   10   10   1	_			
16,16-   6   17,17-18   6CE7A   Environmental Engineering Lab-II	5		5CE7A	Environmental Engineering Lab-I
6         17,17-18         6CE7A         Environmental Engineering Lab-II           2015- 16,16- 7         17,17-18         7CE1A         Water Resource Engineering-I           2015- 16,16- 8         17,17-18         7CE3A         Rural Water Supply and Sanitation           2015- 16,16- 9         17,17-18         7CE7A         Design of Water Resource Structures-I           2015- 16,16- 10         17,17-18         8CE1A         Water Resource Engineering-II           2015- 16,16- 11         17,17-18         8CE4.3A         Earthquake Resistant Construction & Design           2015- 16,16- 12         17,17-18         8CE5A         Design of Water Resource Structures-II           13         2019-20         5CE4 - 05         Water Resource Engineering           14         2019-20         5CE5-11         Air & Noise Pollution and Control           15         2019-20         5CE5-12         Disaster Management				
2015-   16,16-   7   17,17-18   7CE1A   Water Resource Engineering-I   2015-   16,16-   8   17,17-18   7CE3A   Rural Water Supply and Sanitation   2015-   16,16-   9   17,17-18   7CE7A   Design of Water Resource Structures-I   2015-   16,16-   10   17,17-18   8CE1A   Water Resource Engineering-II   2015-   16,16-   11   17,17-18   8CE4.3A   Earthquake Resistant Construction & Design   2015-   16,16-   12   17,17-18   8CE5A   Design of Water Resource Structures-II   13   2019-20   5CE4-05   Water Resource Engineering   14   2019-20   5CE5-11   Air & Noise Pollution and Control   15   2019-20   5CE5-12   Disaster Management   17   17   18   18   18   18   18   18	6		6CE7A	Environmental Engineering Lab II
16,16-   7   17,17-18   7CE1A   Water Resource Engineering-I	0		OCE/A	Environmental Engineering Lab-II
7       17,17-18       7CE1A       Water Resource Engineering-I         2015- 16,16- 8       17,17-18       7CE3A       Rural Water Supply and Sanitation         2015- 16,16- 9       17,17-18       7CE7A       Design of Water Resource Structures-I         2015- 16,16- 10       17,17-18       8CE1A       Water Resource Engineering-II         2015- 16,16- 11       17,17-18       8CE4.3A       Earthquake Resistant Construction & Design         2015- 16,16- 12       17,17-18       8CE5A       Design of Water Resource Structures-II         13       2019-20       5CE4 - 05       Water Resource Engineering         14       2019-20       5CE5-11       Air & Noise Pollution and Control         15       2019-20       5CE5-12       Disaster Management				
2015-   16,16-   8   17,17-18   7CE3A   Rural Water Supply and Sanitation   2015-   16,16-   9   17,17-18   7CE7A   Design of Water Resource Structures-I   2015-   16,16-   10   17,17-18   8CE1A   Water Resource Engineering-II   2015-   16,16-   11   17,17-18   8CE4.3A   Earthquake Resistant Construction & Design   2015-   16,16-   12   17,17-18   8CE5A   Design of Water Resource Structures-II   13   2019-20   5CE4 - 05   Water Resource Engineering   14   2019-20   5CE5-11   Air & Noise Pollution and Control   15   2019-20   5CE5-12   Disaster Management   17,17-18   17,17-18   17,17-18   17,17-18   18,17-1	7		7CE1A	Water Resource Engineering-I
8       17,17-18       7CE3A       Rural Water Supply and Sanitation         2015- 16,16- 9       17,17-18       7CE7A       Design of Water Resource Structures-I         2015- 16,16- 10       17,17-18       8CE1A       Water Resource Engineering-II         2015- 16,16- 11       17,17-18       8CE4.3A       Earthquake Resistant Construction & Design         2015- 16,16- 12       17,17-18       8CE5A       Design of Water Resource Structures-II         13       2019-20       5CE4 - 05       Water Resource Engineering         14       2019-20       5CE5-11       Air & Noise Pollution and Control         15       2019-20       5CE5-12       Disaster Management				
2015-   16,16-   9   17,17-18   7CE7A   Design of Water Resource Structures-I   2015-   16,16-   10   17,17-18   8CE1A   Water Resource Engineering-II   2015-   16,16-   11   17,17-18   8CE4.3A   Earthquake Resistant Construction & Design   2015-   16,16-   12   17,17-18   8CE5A   Design of Water Resource Structures-II   13   2019-20   5CE4-05   Water Resource Engineering   14   2019-20   5CE5-11   Air & Noise Pollution and Control   15   2019-20   5CE5-12   Disaster Management		16,16-		
16,16-   9   17,17-18   7CE7A   Design of Water Resource Structures-I   2015-   16,16-   10   17,17-18   8CE1A   Water Resource Engineering-II   2015-   16,16-   11   17,17-18   8CE4.3A   Earthquake Resistant Construction & Design   2015-   16,16-   12   17,17-18   8CE5A   Design of Water Resource Structures-II   13   2019-20   5CE4 - 05   Water Resource Engineering   14   2019-20   5CE5-11   Air & Noise Pollution and Control   15   2019-20   5CE5-12   Disaster Management	8		7CE3A	Rural Water Supply and Sanitation
9       17,17-18       7CE7A       Design of Water Resource Structures-I         2015- 16,16- 10       17,17-18       8CE1A       Water Resource Engineering-II         2015- 16,16- 11       17,17-18       8CE4.3A       Earthquake Resistant Construction & Design         2015- 16,16- 12       17,17-18       8CE5A       Design of Water Resource Structures-II         13       2019-20       5CE4 - 05       Water Resource Engineering         14       2019-20       5CE5-11       Air & Noise Pollution and Control         15       2019-20       5CE5-12       Disaster Management				
2015-   16,16-   10   17,17-18   8CE1A   Water Resource Engineering-II   2015-   16,16-   11   17,17-18   8CE4.3A   Earthquake Resistant Construction & Design   2015-   16,16-   12   17,17-18   8CE5A   Design of Water Resource Structures-II   13   2019-20   5CE4-05   Water Resource Engineering   14   2019-20   5CE5-11   Air & Noise Pollution and Control   15   2019-20   5CE5-12   Disaster Management				
16,16-       17,17-18       8CE1A       Water Resource Engineering-II         2015-       16,16-       11       17,17-18       8CE4.3A       Earthquake Resistant Construction & Design         2015-       16,16-       12       17,17-18       8CE5A       Design of Water Resource Structures-II         13       2019-20       5CE4 - 05       Water Resource Engineering         14       2019-20       5CE5-11       Air & Noise Pollution and Control         15       2019-20       5CE5-12       Disaster Management	9		7CE7A	Design of Water Resource Structures-I
10       17,17-18       8CE1A       Water Resource Engineering-II         2015- 16,16- 11       17,17-18       8CE4.3A       Earthquake Resistant Construction & Design         2015- 16,16- 12       17,17-18       8CE5A       Design of Water Resource Structures-II         13       2019-20       5CE4 - 05       Water Resource Engineering         14       2019-20       5CE5-11       Air & Noise Pollution and Control         15       2019-20       5CE5-12       Disaster Management				
2015-   16,16-   11   17,17-18   8CE4.3A   Earthquake Resistant Construction & Design   2015-   16,16-   12   17,17-18   8CE5A   Design of Water Resource Structures-II   13   2019-20   5CE4-05   Water Resource Engineering   14   2019-20   5CE5-11   Air & Noise Pollution and Control   15   2019-20   5CE5-12   Disaster Management	10		9CE1 A	Water Resource Engineering II
16,16-       17,17-18       8CE4.3A       Earthquake Resistant Construction & Design         2015-       16,16-       12       17,17-18       8CE5A       Design of Water Resource Structures-II         13       2019-20       5CE4 - 05       Water Resource Engineering         14       2019-20       5CE5-11       Air & Noise Pollution and Control         15       2019-20       5CE5-12       Disaster Management	10		OCLIA	water resource Engineering-11
11       17,17-18       8CE4.3A       Earthquake Resistant Construction & Design         2015- 16,16- 12       17,17-18       8CE5A       Design of Water Resource Structures-II         13       2019-20       5CE4 - 05       Water Resource Engineering         14       2019-20       5CE5-11       Air & Noise Pollution and Control         15       2019-20       5CE5-12       Disaster Management				
2015-   16,16-   12   17,17-18   8CE5A   Design of Water Resource Structures-II   13   2019-20   5CE4 - 05   Water Resource Engineering   14   2019-20   5CE5-11   Air & Noise Pollution and Control   15   2019-20   5CE5-12   Disaster Management	11		8CE4.3A	Earthquake Resistant Construction & Design
16,16-       12       17,17-18       8CE5A       Design of Water Resource Structures-II         13       2019-20       5CE4 - 05       Water Resource Engineering         14       2019-20       5CE5-11       Air & Noise Pollution and Control         15       2019-20       5CE5-12       Disaster Management				1
13         2019-20         5CE4 - 05         Water Resource Engineering           14         2019-20         5CE5-11         Air & Noise Pollution and Control           15         2019-20         5CE5-12         Disaster Management				
14         2019-20         5CE5-11         Air & Noise Pollution and Control           15         2019-20         5CE5-12         Disaster Management	12	17,17-18	8CE5A	Design of Water Resource Structures-II
15 2019-20 5CE5-12 Disaster Management	13	2019-20	5CE4 - 05	Water Resource Engineering
	14	2019-20	5CE5-11	Air & Noise Pollution and Control
16 2010 20 5005 12	15	2019-20	5CE5-12	Disaster Management
16   2019-20   5CE5-13   Town Planning	16	2019-20	5CE5-13	Town Planning
17   2019-20   5CE5-14   Repair and Rehabilitation of Structures	17	2019-20	5CE5-14	Repair and Rehabilitation of Structures
18 2019-20 5CE5-15 Ground Improvement Techniques	18	2019-20	5CE5-15	Ground Improvement Techniques
19 2019-20 5CE5-16 Energy Science & Engineering	19	2019-20	5CE5-16	Energy Science & Engineering
20 2019-20 5CE4-23 Water Resource Engineering Design	20	2019-20	5CE4-23	



21	2019-20	6CE4-03	Environmental Engineering	
22	2019-20	6CE4-21	Environmental Engineering Design and Lab	
23	2019-20	6CE5-12	Solid and Hazardous Waste Management	
24	2019-20	6CE4-24	Water and Earth Retaining Structures Design	
25	2019-20	6EE4-04	Electrical Energy Conversion and Auditing	
26	2019-20	6EE5-13	Electrical and Hybrid Vehicles	
	Gender			
1	2019-20	8ME2A	Laws For Engineers	

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# RAJASTHAN TECHNICAL UNIVERSITY

# Scheme of Teaching & Examination for I year B. Tech. I Semester Effective from the session: 2017-18

		Course Title	L	T	P		Marks	
						IA	External	Total
S.N	Subject Code	Theory Papers			48		10	ii n
1.	MA-101	Engineering Mathematics-I	3	1	0	20	80	100
2.	HU-101/ HU-103	Communication Skills / Human Values	3	0	0	20	80	100
3.	PY-101/ CY-101	Engineering Physics/ Engineering Chemistry	3	1	0	20	80	100
4.	CS-101	Computer Programming-I	3	0	0	20	80	100
5.	CE-101	Environmental Engineering and Disaster Management	3	0	0	20	80	100
		Total	15	2	0	100	400	500
		Practical	3		<u> </u>		3	2
6.	HU-102/ HU-104	Communication Skills Lab./ Human Values: Activities	0	0	2	45	30	75
7.	PY-102/ CY-102	Engineering Physics Lab/ Engineering Chemistry Lab	0	0	2	45	30	75
8.	CS-102	Computer Programming-I Lab.	0	0	2	60	40	100
9.	CE-102	Computer Aided Engineering Graphics	0	0	3	60	40	100
10.	ME-101	Mechanical Workshop Practice	0	0	2	60	40	100
11.		Discipline & Extra Curricular Activity	0	0	0	50	0	50
	i de la companya de	Total	0	0	11	320	180	500
	8	Grand Total	15	2	11	420	580	1000

(Total 28 periods per week)

L = Lecture, T = Tutorial, P = Practical, IA=Internal Assessment

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R.T.U., Kota Scheme and Syllabus B.Tech. (1<sup>st</sup> and 2<sup>nd</sup> Semesters) effective from Session 2012-13

## Scheme of Teaching & Examination for I year B.Tech. I Semester Effective from the Session: 2012 – 2013 (Common to all branches of Engineering)

Sub			ımber eachir Hours	ıg	Duration of Theory Paper							
Sub Code	Subject	L	T	P	(Hours)	Theory	Term Test	Sessional	Prac. Exam	Total		
101	Communicative English	3	1	-	3	80	20			100		
102	Engineering Mathematics-I	3	1	5	3	80	20			100		
103	Engineering Physics-I	3	1	2	3	80	20			100		
104	Engineering Chemistry	3	1	-	3	80	20			100		
105	Basic Electrical & Electronics Engineering	3	-	=	3	80	20			100		
	Total	15	04		=	400	100		10 0	500		
106	Engineering Physics Lab-I	8	÷	2		in.		45	30	75		
107	Engineering Chemistry Lab	s (s		2				45	30	75		
108	Electrical & Electronics Lab	2	e e	2		14		60	40	100		
109	Practical Geometry	-		3				60	40	100		
110	Workshop Practice	5	ē	2				60	40	100		
111	Discipline & Extra curricular Activities	2	8	2				50		50		
	Grand Total	15	04	11	52	400	100	320	180	100		

(Total 30 periods per week)

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Scheme and Syllabus B.Tech. (1st and 2nd Semesters) effective from Session 2012-13 R.T.U., Kota

## Scheme of Teaching & Examination for I year B.Tech II Semester Effective from the Session: 2012 - 2013 (Common to all branches of Engineering)

		I	each ours Wee	ing Per	Duration of theory		Ma	rks Al	location	L
Sub Code	Subject		T	P	Paper (Hours)	Theory	Term Test	Sessi onal	Prac. Exam	Total
201	Communication Techniques	2	2	2	3	80	20		8	100
202	Engineering Mathematics-II	3	1	s	3	80	20			100
203	Engineering Physics-II	2	1	-	3	80	20			100
204	Chemistry & Environmental Engineering	3	1	3	3	80	20			100
205	Engineering Mechanics	3	1	8	3	80	20			100
206	Fundamentals of Computer Programming	3	5	a a	3	80	20			100
	Total	16	04	s	-	480	120			600
207	Engineering Physics Lab-II	=	=	2				30	20	50
208	Chemistry & Environmental Engineering Lab		5	2		£2.	<i>0</i>	30	20	50
209	Computer programming lab	-	3	2				45	30	75
210	Machine Drawing	5	5	3		576	*	60	40	100
211	Communication Technique Lab		4	2		800	( <del></del>	45	30	75
212	Discipline & Extra Curricular Activities	5	9	ā	5	<i>2</i> 2.		50		50
	Grand Total	16	04	11	-	480	120	260	140	1000

(Total 31 periods per week)
L = Lecture, T = Tutorial, P = Practical

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## 111 DISCIPLINE & EXTRA CURRICULAR ACTIVITIES (DECA)

Component - A Discipline: 25 Marks

R.T.U., Kota Scheme and Syllabus B.Tech. (1st and 2nd Semesters) effective from Session 2012-13

The marks shall be deducted from this component for those who shall involve themselves in indiscipline/undesirable/Ragging activities or in case of penalty of marks imposed by Standing Disciplinary Committee (SDC) and approved by Head of the Institution concerned subject to a maximum of 25 marks.

## Component – B Extra Curricular Activities:

25 Marks

Marks shall be awarded for the participation of students in various Extra Curricular Activities organised by the respective institutions as per the following, subject to a maximum of 25 marks. In case student does not participate in any of the Extra Curricular Activities, he/ she shall be awarded zero(0) marks in DECA - Component B.

- (i) National Cadet Corps (NCC).
- (ii) National Service Scheme (NSS)
- (iii) Scouts & Guide
- (iv) Sports Activities
- (v) Literary Activities & model
- (vi) Cultural Activities
- (vii) Paper Presentation/ Participation in National Conferences/ Seminars/ Workshops etc.
- (viii) Blood Donation
- (ix) Participation in activities of College Annual day Celebration
- Organising/ Participation/ Volunteer in different activities organised by the departments/ institute
- (xi) Organising/ Participation in activities of Students Chapters of ISTE, IE (I), IEEE, IETE, Vivekanand Kendra etc.

## 201 COMMUNICATION TECHNIQUES

## Unit 1

### Elements of Communication

- 1. Communication: Meaning, Importance and Process
- 2. Objectives of Communication
- 3. Media and Types of Communication

### Unit 2

## Basics of Communication

- 1. Verbal and Non-Verbal Communication
- 2. Formal and Informal Channels of Communication
- 3. Qualities of Good Communication

### Unit 3

### Skills of Communication

- 1. Barriers to Communication
- 2. Professional Communication

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R.T.U., Kota Scheme and Syllabus B.Tech. (1st and 2nd Semesters) effective from Session 2012-13

3. Interpersonal Communication and methods to improve it

### Unit 4

#### Grammar

- 1. Subject-Verb Agreement (Concord)
- 2. Linking Words (Conjunctions)
- 3. Relative Clauses
- 4. Common Errors

### Unit 5

### Composition

- 1. Resume Writing
- Business Letter Writing: Sales, Credit, Enquiry, Order, Claim, Complaint, Job Applications, etc.
- 3. E-mail messages
- 4. Telephone Etiquettes

### Suggested Readings

- Communication Skills for Engineers and Scientists, Sangeeta Sharma and Binod Mishra, PHI Learning Pvt. Ltd.(New Delhi)
- English Grammar and Composition, Gurudas Mukherjee, Ane Books Pvt. Ltd.(New Delhi)
- Current English Grammar and Usage with Composition, R.P. Sinha, Oxford University Press (New Delhi)
- 4. Effective Technical Communication, M Ashraf Rizvi, Tata McGraw Hill (New Delhi)
- Business Communication, Meenakshi Raman & Prakash Singh, Oxford University Press (New Delhi)
- 6. Professional Communication, Aruna Koneru, Tata McGraw Hills, New Delhi.
- A Practical Course for Developing Writing Skills in English, J.K. Gangal, PHI Learning Pvt. Ltd., New Delhi.
- "Communicative English for Engineers and Professionals", by Nitin Bhatnagar & Mamta Bhatnagar, Pearson (New Delhi).
- "The Ace of Soft Skills", by Gopalswamy Ramesh & Mahadevan Ramesh, Pearson (New Delhi)

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### 101 COMMUNICATIVE ENGLISH

### Unit 1

#### Grammar

- 1. Tenses
- 2. Passive Voice
- 3. Indirect Speech
- 4. Conditional Sentences
- Modal Verbs

### Unit 2

### Composition

- 1. Dialogue Writing
- 2. Paragraph and Precis Writing
- 3. Report, its importance and Report Writing

#### Unit 3

### Short Stories

- 1. The Luncheon: W.S. Maugham
- 2. How Much Land Does a Man Need?: Leo Tolstoy
- 3. The Last Leaf: O. Henry

### Unit 4

### Essays

- 1. On the Rule of the Road: A. G. Gardiner
- 2. The Gandhian Outlook: S. Radhakrishnan
- 3. Our Own Civilisation: C.E.M. Joad

#### Unit 5

### Poems

- 1. The Unknown Citizen: W. H. Auden
- 2. The Character of A Happy Life: Sir Henry Wotton
- 3. No Men are Foreign: James Kirkup
- 4. If: Rudyard Kipling

## Suggested Readings

- Communication Skills for Engineers and Scientists, Sangeeta Sharma & Binod Mishra, PHI Learning Pvt. Ltd.
- English for Engineers: Made Easy, Aeda Abidi & Ritu Chaudhary, Cengage Learning, (New Delhi)
- A Practical Course for Developing Writing Skills in English, J.K. Gangal, PHI Learning Pvt. Ltd., New Delhi.
- Intermediate Grammar, Usage and Composition, Tickoo, A. E. Subramaniam & P. R. Subramaniam, Orient Longman (New Delhi)
- 5. The Written Word, Vandana R. Singh, Oxford University Press (New Delhi)

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### 211 COMMUNICATION TECHNIQUES LAB

- 1. Phonetic Symbols and Transcriptions
- 2. Word Formation
- 3. Affixes
- 4. Listening and speaking Skills.
- 5. Words often Mis-spelt and Mis-Pronounced
- 6. One Word for Many.
- Synonyms and Antonyms.
- Seminar Presentation.
- Group Discussion.
- 10. Job Interview

#### Suggested Readings and Packages

- Advanced Manual for Communication Laboratories and Technical Report Writing, D. Sudha Rani, Pearson, (New Delhi)
- A Course in Phonetics and Spoken English, J. Sethi & P.V. Dhamija, PHI Learning Pvt. Ltd. (New Delhi)
- English Language Laboratories: A Comprehensive Manual, Nira Konar, PHI Learning Pvt Ltd. (New Delhi)
- Communication Skills for Engineers and Scientists, Sangeeta Sharma and Binod Mishra, PHI Learning Pvt. Ltd.(New Delhi).
- 5. Oxford English Learning Package.(With CDs: Headway Series)
- Tata McGraw Hills English Learning Package (With CDs)
- "Oxford Advanced Learners' Dictionary" published by Oxford University Press (New Delhi)

## 212 DISCIPLINE & EXTRA CURRICULAR ACTIVITIES (DECA)

### Component - A

### Discipline:

25 Marks

The marks shall be deducted from this component for those who shall involve themselves in indiscipline/undesirable/Ragging activities or in case of penalty of marks imposed by Standing Disciplinary Committee (SDC) and approved by Head of the Institution concerned subject to a maximum of 25 marks.

## Component – B Extra Curricular Activities:

25 Marks

Marks shall be awarded for the participation of students in various Extra Curricular Activities organised by the respective institutions as per the following, subject to a maximum of 25 marks. In case student does not participate in any of the Extra Curricular Activities, he/ she shall be awarded zero(0) marks in DECA - Component B.

- National Cadet Corps (NCC).
- (ii) National Service Scheme (NSS)

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R.T.U., Kota Scheme and Syllabus B.Tech. (1st and 2nd Semesters) effective from Session 2012-13

- (iii) Scouts & Guide
- (iv) Sports Activities
- (v) Literary Activities & model
- (vi) Cultural Activities
- (vii) Paper Presentation/ Participation in National Conferences/ Seminars/ Workshops etc.
- (viii) Blood Donation
- (ix) Participation in activities of College Annual day Celebration.
- (x) Organising/ Participation/ Volunteer in different activities organised by the departments/ institute
- (xi) Organising/ Participation in activities of Students Chapters of ISTE, IE (I), IEEE, IETE, Vivekanand Kendra etc.

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Total Control Statut - \$0,0002



SEMESTER VIII	8	8		Hrs.	/ Week	IA	Exam	Total
Subject Code	Title		L	T	Р		10-590-00-00	Amarine
8ME1A	Computer Integrated Manufacturing Systems	3	3			20	80	100
8ME2A	Laws for Engineers	8	3		/ s	20	80	100
8ME3A	Power Generation		3	1	Theory Subjects	20	80	100
8ME4.1A	Product Development and Launching	- 3			The ubj	12.72.5	0200	Decrease of
8ME4.2A	Computational Fluid Dynamics	8	3		L S	20	80	100
8ME4.3A	Total Quality Management					Alles a	0.5.00.	
overcoro ve	Practicals and Sessionals	2				00 00 00 00		
8ME5A	CAM Lab	8	00	3	2	45	30	75
8ME6A	CAD Lab		ro.	2	3	60	40	100
8ME7A	Industrial Engineering Lab - II	2	ō	3	2	45	30	75
8MEPR	Project-2		ab courses		4	120	80	200
8MESM	Seminar			}	2	60	40	100
8MEDC	Discipline & Extra Curricular Activity					19 U		50
	Total	- i	12	1	13		, i	1000

# 8ME2A: LAWS FOR ENGINEERS

B.Tech. (Mechanical) 8th semester 3L+OT Max. Marks: 100 Exam Hours: 3

UNIT	CONTENTS	CONTACT
	<b>Constitutional Law</b> : The Preamble; Fundamental Rights; Directive principles of State policy; Fundamental Duties; Emergency provisions – kinds, legal requirements and legal effects.	5
I	General Principles of Contract under Indian Contract Act, 1872: General principles of contract – Sec. 1 to 75 of Indian Contract Act and including Government as contracting party, Kinds of government contracts and dispute settlement, Standard form contracts; nature, advantages, unilateral character, principles of protection against possibility of exploitation, judicial approach to such contracts, exemption clauses, clash between two standard form contracts.	4
II	Introduction to Human Rights: Theoretical foundation, Historical development of human rights; Human Rights in Indian tradition and Western tradition; Covenant on Civil & Political Rights 1966 including Optional Protocol – I (Individual Complaint Mechanism) & Optional Protocol – II (Abolition of Death Penalty); Covenant on Economic, Social and Cultural Rights 1966 including Optional Protocol – I (2002);	4
8	Enforcement of Human Rights in India including Supreme Court, High Courts, Statutory Commissions – NHRC, NCW, NCM, NC-SC/ST etc.	4
	Labour Laws: Industrial Disputes Act, 1947; Collective bargaining; Industrial Employment (Standing Orders) Act, 1946; Workmen's Compensation Act, 1923.	3
III	Right to Information Act, 2005: Evolution and concept; Practice and procedures; Official Secret Act, 1923; Indian Evidence Act, 1872;	3

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v	Election provisions under Indian Constitution (Art.324–329): Representation of Peoples Act and Prevention of Corruption Act, 1988; Superintendence, directions and control of elections to be vested in Election Commission; Election to the house of people and to the	
	Corporate Law: Meaning of corporation; Law relating to companies, public and private (Companies Act, 1956) general provisions; Law and multinational companies – International norms for control, FEMA 1999, Corporate liability, civil and criminal.	4
	Law relating to Patents under Patents Act, 1970, Patentable inventions with special reference to biotechnology products, Patent protection for computer programs, Process of obtaining patent -application, examination, opposition and sealing of patents, Patent cooperation treaty and grounds for opposition, Rights and obligations of patentee, Duration of patents - law and policy considerations, Infringement and related remedies.	3
ıv	Law relating to Trademarks under Trademark Act, 1999 including Rationale of protection of trademarks as Commercial aspect and Consumer rights, Trademarks, registration, procedures, Distinction between trademark and property mark, Doctrine of deceptive similarity, Passing off an infringement and remedies;	2
	Law relating to Copyright in India, Meaning of copyright - literary, dramatics and musical works, sound records and cinematographic films, computer programs, Ownership of copyrights, Criteria of infringement, Piracy in Internet - Remedies and procedures in India;	1
	Law relating to Intellectual property: Introduction-meaning of intellectual property, main forms of IP, Copyright, Trademarks, Patents and Designs, Secrets; International instruments on IP - Berne convention, Rome convention, TRIPS, Paris convention and international organizations relating IPRs, WTO etc;	4

REFERENCE BOOKS					
SN	Name of Authors /Books /Publisher	Year of Pub.			
1	D.D. Basu, Shorter Constitution of India, Prentice Hall of India	1996			
2	M.P. Jain, Indian Constitutional Law, Wadhwa & Co.	2005			
3	S.K. Awasthi & R.P. Kataria, Law relating to Protection of Human Rights, Orient Publishing	2006			
4	S.K. Kapur, Human Rights under International Law and Indian Law, Central Law Agency	2001			
5	Avtarsingh, Law of Contract, Eastern Book Co	2002			
6	Wadhera , Intellectual Property Rights, Universal Law Publishing Co	2004			
7	T. Ramappa, Intellectual Property Rights Law in India, Asia Law House	2010			
8	O.P. Malhotra, Law of Industrial Disputes, N.M. Tripathi Publishers				

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