



# DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi and Affiliated to JNTU, Kakinada)

An ISO 9001-2015 Certified Institution

Ganguru, Vijayawada- 521139.

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### SEMESTER WISE TABLE

ACADEMIC YEAR	ECE-I		ECE II		ECE -III		ECE -IV	
	SEM-I	SEM-II	SEM-I	SEM-II	SEM-I	SEM-II	SEM-I	SEM-II
2014-15	PE&HV	--	--	--	--	--	--	--
2015-16	PE&HV	--	--	--	--	--	--	--
2016-17	--	--	--	--	--	--	--	--
2017-18	--	--	--	--	--	--	--	--
2018-19	--	--	--	--	PE&HV	--	--	--



*Principal*  
5/4/2019

PRINCIPAL

DHANEKULA INSTITUTE  
OF ENGINEERING AND TECHNOLOGY  
Ganguru, Vijayawada-521 139



**Time Table**

Branch: ECE-A

Year/Sem: I B. Tech./I Sem

Academic Year: 2014-15

w.e.f: 01/09/2014

Period/Day	1	2	3	4	5	1:10-2:00	6	7	8	
	9:00-9:50	9:50-10:40	10:40-11:30	11:30-12:20	12:20-1:10		2:00-2:50	2:50-3:40	3:40-4:30	
Mon	EP	M-I	ENG	<-- M-II(T-A)/EP(T-B) -->		L U N C H	PE&HV	M-II	M-I	
Tue	M-II	PE&HV	M-I	<-- EP(VL)/ED(T) -->			EP	<- M-I(T-A)/M-II(T-B) ->		
Wed	EP	<----- ED ----->					<----- ED ----->			
Thu	M-I	ENG	M-II	<- M-I(T-B)/EP(T-A) ->			<--ECSL- I (LAB-A)/EP(LAB-B)-->			
Fri	PE&HV	EP	<---- EWS(LAB)/ITWS(LAB) ---->				M-II	M-I	ENG	
Sat	M-I	PE&HV	<--ECSL- I (LAB-B)/EP(LAB-A)-->				EP	ENG	M-II	

	Subject	Faculty
ENG	English - I	Ms. V. Vasanthi
M-I	Mathematics - I	Mr. A. Srinivasa Rao
M-II	Mathematics - II	Dr. B.V.S.N. Hari Prasad
EP	Engineering Physics	Ms. M. Silpa
PE&HV	Professional Ethics and Human Values	Ms. K. Anusha
ED	Engineering Drawing	Mr. Md. Raza Ali

	Labs	Faculty
ECSL- I	English-Communication Skills Lab - I	Ms. V. Vasanthi
EP	Engineering Physics Laboratory	Ms. M. Silpa/ Ms. K.A. Sasi Kala/Ms. D. Radha
EWS	Engineering Workshop	Mr. L. Srikanth
ITWS	IT Workshop	Mr. Naga Sindhu
EP(VL)	Engineering Physics Virtual Lab	Ms. M. Silpa

Time Table I/C

*B. Srinivasa Rao*  
I Year Coordinator  
HEAD OF THE DEPARTMENT  
BS&H, Coordinator, I B.Tech  
DHANEKULA INSTITUTE  
OF ENGINEERING AND TECHNOLOGY

Principal





**Dhanekula Institute of Engineering & Technology**  
(Approved by AICTE, New Delhi; Affiliated to JNTUK, Kakinada)  
Ganguru, Vijayawada – 521 139



Branch: ECE-B

Year/Sem: I B-Tech / I sem

**Time Table**

Academic Year: 2014-15 week 01/09/14

Period/Day	1	2	3	4	5	1:10-2:00	6	7	8	
	9:00-9:50	9:50-10:40	10:40-11:30	11:30-12:20	12:20-1:10		2:00-2:50	2:50-3:40	3:40-4:30	
Mon	ENG	EP	M-II	M-I	PE&HV	L U N C H	M-I	<-- M-II(T-B)/EP(T-A) -->		
Tue	M-I	M-II	ENG	EP	PE&HV		<--ECSL- I (LAB-A)/EP(LAB-B)-->			
Wed	M-II	M-I	ENG	<-- M-I(T-A)/EP(T-B) -->			<--ECSL- I (LAB-B)/EP(LAB-A)-->			
Thu	ENG	EP	<----- EWS(LAB)/ITWS(LAB) ----->				M-II	M-I	PE&HV	
Fri	EP	<----- ED ----->					<----- ED ----->			
Sat	EP	M-II	PE&HV	<-M-I(T-B)/M-II(T-A)->			M-I	<-- EP(VL)/ED(T) -->		

	Subject	Faculty
ENG	English - I	Ms. V. Vasanthi
M-I	Mathematics - I	Mr. A. Srinivasa Rao
M-II	Mathematics - II	Mr. G. R. Ganesh
EP	Engineering Physics	Ms. K.A. Sasi Kala
PE&HV	Professional Ethics and Human Values	Mr. Y. Priya Sagar
ED	Engineering Drawing	Mr. Md. Raza Ali

	Labs	Faculty
ECSL- I	English-Communication Skills Lab - I	Ms. V. Vasanthi
EP	Engineering Physics Laboratory	Ms. K.A. Sasi Kala / Ms. D. Radha
EWS	Engineering Workshop	Mr. A. Srinivas Nayak
ITWS	IT Workshop	Mr. T. Vamsidhar
EP(VL)	Engineering Physics Virtual Lab	Ms. K.A. Sasi Kala

Time Table I/C

HEAD OF THE DEPARTMENT  
 BS&H; Coordinator, I B.Tech  
**DHANEKULA INSTITUTE**  
 OF ENGINEERING AND TECHNOLOGY,  
 Ganguru, VIJAYAWADA - 521 139

Principal





**Time Table**

Branch: ECE-A

Year/Sem: I B. Tech/I Sem

Academic Year: 2015-16

w.e.f: 01/07/2015

Period/Day	1	2	10.40-10.50	3	4	5	1:10-2:00	6	7	8
	9:00-9:50	9:50-10:40		10:50-11:30	11:30-12:20	12:20-1:10		2:00-2:50	2:50-3:40	3:40-4:30
Mon	EP	MI	<b>B R E A K</b>	<---- EWS LAB/ITWS LAB----->			<b>L U N C H</b>	PEHV	<- M-II(T-A)/EP(T-B)>	
Tue	<-----ED----->			<-----ED----->				MI	EP	MII
Wed	ENG	MII		<--ECSL- I (LAB-A)/EP(LAB-B)-->				PEHV	<- EP(T-A)/M-I(T-B)->	
Thu	MI	ED		ED	<-- EP(VL)/ED(T) -->			MII	ENG	MI
Fri	PEHV	ENG		MII	EP	MI		<- EP(LAB-A)/ECSL- I (LAB-B)->		
Sat	MII	EP		PEHV	EP	MI		ENG	<-MI(T-A)/M-II(T-B)>	

	Subject	Faculty
ENG	English - I	Ms. V. Vasanthi
M-I	Mathematics - I	Mr. A. Srinivasa Rao
M-II	Mathematics - II	Dr. B.V.S.N. Hari Prasad
EP	Engineering Physics	Ms. K.A. Sasi Kala
PE&HV	Professional Ethics and Human Values	Ms.J. Sushma
ED	Engineering Drawing	Dr.K.Ravi

	Labs	Faculty
ECSL-I	English-Communication Skills Lab - I	Ms. V. Vasanthi
EP	Engineering Physics Laboratory	Ms. K.A. Sasi Kala/ Ms. D. Radha
EWS	Engineering Workshop	Mr.P. Govind Reddy
ITWS	IT Workshop	Ms.K.Sandhya Rani
EP(VL)	Engineering Physics Virtual Lab	Ms. K.A. Sasi Kala

Time Table I/C

*B.S.N. Hari Prasad*  
**Year Coordinator**  
HEAD OF THE DEPARTMENT  
B&H, Coordinator, I B Tech  
DHANEKULA INSTITUTE  
OF ENGINEERING AND TECHNOLOGY

Principal







Branch: ECE-B

Year/Sem: I B. Tech./I Sem

**Time Table**

Academic Year: 2015-16

w.e.f: 01/07/2015

Period/Day	1	2	10.40-10.50	3	4	5	1:10-2:00	6	7	8
	9:00-9:50	9:50-10:40		10:50-11:30	11:30-12:20	12:20-1:10		2:00-2:50	2:50-3:40	3:40-4:30
Mon	←-----ED-----→		<b>B R E A K</b>	←-----ED-----→			<b>L U N C H</b>	M-I	ENG	EP
Tue	MII	EP		←-----EWS LAB/ITWS LAB-----→				ENG	PEHV	MI
Wed	MI	ENG		MI	←-- M-II(T-A)/EP(T-B)-->			MII	EP	PEHV
Thu	PEHV	MI		EP	←-- MI(T-A)/M-II(T-B) -->			←--ECSL- I (LAB-A)/EP(LAB-B)-->		
Fri	MII	ED		ED	←-- EP(VL)/ED(T) -->			MII	←- EP(T-A)/M-I(T-B) >	
Sat	ENG	EP		MI	MII	PEHV		←-- EP(LAB-A)/ECSL- I (LAB-B) -->		

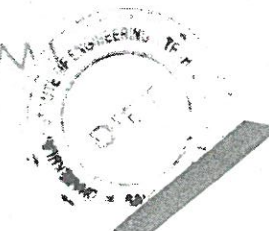
	Subject	Faculty
ENG	English - I	Mr.B.Srinivasa Rao
M-I	Mathematics - I	Mr. A. Srinivasa Rao
M-II	Mathematics - II	Mr. G. R. Ganesh
EP	Engineering Physics	Dr.M.Nagarjuna
PE&HV	Professional Ethics and Human Values	Ms.J. Sushma
ED	Engineering Drawing	Mr. V. Hari Prasad

	Labs	Faculty
ECSL- I	English-Communication Skills Lab - I	Mr.B.Srinivasa Rao
EP	Engineering Physics Lab	Dr. M. Nagarjuna/Ms. D. Radh
EWS	Engineering Workshop	Mr. V. Hari Prasad
ITWS	IT Workshop	Ms.K.Sandhya Rani
EP(VL)	Engineering Physics Virtual Lab	Dr.M.Nagarjuna

Time Table I/C

**HEAD OF THE DEPARTMENT**  
 BS&H, Coordinator, I B.Tech  
**DHANEKULA INSTITUTE**  
**OF ENGINEERING AND TECHNOLOGY**  
 Ganguru, VIJAYAWADA - 521 139

Principal





**DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**Department of Electronics & Communication Engineering**



DHET/5/0PT/12A

**UG TIME TABLE**

Name of the Program: B.Tech in ECE

Class Room No: F-41

Class/Sem: III B.Tech SEM-I

Sec: A

A.Y. 2018-19

W.E.F. 11/06/2018

DAY	1 9:00-9:50	2 9:50-10:40	3 10:50-11:30	4 11:30-12:20	5 12:20-1:10	LUNCH	6 2:00-2:50	7 2:50-3:40	8 3:40-4:30
MON	DICA	DC	IOT/DS/C LANG.				DICA	CAO/LICA(T)	
TUE	CAO	LICA	PEHV	AWP	COUNSELING		PDC/DICA LAB		
WED	DC	AWP	DICA/LICA LAB				PEHV	DICA	LIBRARY
THU	LICA	INTERNET	LICA/PDC LAB				CAO	DICA/DC(T)	
FRI	AWP	LICA	CAO	AWP/PEHV(T)			CRT	CRT	DC
SAT	CAO	LICA	ASSOCIATION		DC		DICA	AWP	SPORTS

Theory/Lab	Faculty Name	L	T	P	O	Sign
Computer Architecture and Organization	Mr.V.Subba Raju	4	1	-	-	<i>V Subba Raju</i>
Linear I C Applications	Mr.P.Veera Swamy	4	1	-	-	<i>P Veera Swamy</i>
Digital I C Applications	Mr.A.Sivannarayana	4	1	-	-	<i>A Sivannarayana</i>
Digital Communications	Mr.M.Tulasi Dasu	4	1	-	-	<i>M Tulasi Dasu</i>
Antenna and Wave Propagation	Mr.V.Jaya Prakash	4	1	-	-	<i>V Jaya Prakash</i>
Professional Ethics & Human Values	Mrs.M.Mythri	3	1	-	-	<i>M Mythri</i>
Pulse and Digital Circuits Lab	Mrs.K.L.Sowjanya	-	-	3	-	<i>K.L Sowjanya</i>
Linear I C Applications Lab	Mrs.M.Mythri	-	-	3	-	<i>M Mythri</i>
Digital I C Applications Lab	Mr.P.Krishna Reddy	-	-	3	-	<i>P Krishna Reddy</i>
Association	Dr.G.Asa Jyothi Mrs.I.Pavani Prapurna Mr.Y.Rama Krishna	-	-	-	2	<i>G.Asa Jyothi</i>
ITC- (IOT/DS/C LANG.)	Mr.VSR.Mrs.MM	-	-	-	3	<i>VSR Mrs.MM</i>
Internet	Mr.V.Jaya Prakash	-	-	-	1	<i>V Jaya Prakash</i>
CRT	T & P Faculty	-	-	-	2	<i>T &amp; P Faculty</i>
Library	Mrs.K.L.Sowjanya	-	-	-	1	<i>K.L Sowjanya</i>
Counseling	Mr.VJP/Mr.PRK/Mrs.YNP/Mr.MTD	-	-	-	1	<i>VJP/PRK/YNP/MTD</i>
Sports	Mrs.K.L.Sowjanya	-	-	-	1	<i>K.L Sowjanya</i>
Class Incharge	Mr.V.Jaya Prakash					<i>V Jaya Prakash</i>

*P*  
I/C Time Tables/Date

*G*  
HOD /Date

*R*  
Principal

HEAD OF THE DEPARTMENT  
 Electronics & Communication Engineering  
**DHANEKULA INSTITUTE**  
 OF ENGINEERING AND TECHNOLOGY  
 Ganguru, VIJAYAWADA-521 139





**DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**Department of Electronics & Communication Engineering**



DIET/3/MT/12A

**UG TIME TABLE**

Name of the Program: B.Tech in ECE  
 Class Room No: F-40

Class/Sem: III B.Tech SEM-I      Sec: B  
 A.Y: 2018-19      W.E.F: 11/06/2018

DAY	1 9:00-9:50	2 9:50-10:40	3 10:50-11:30	4 11:30-12:20	5 12:20-1:10	LUNCH	6 2:00-2:50	7 2:50-3:40	8 3:40-4:30
MON	CAO	AWP	DICA/LICA LAB				DC	AWP/PEHV(T)	
TUE	PEHV	DICA	DC	CRT	CRT		AWP	CAO/LICA(T)	
WED	LICA	DICA	IOT/DS/C LANG.				LICA/PDC LAB		
THU	DC	CAO	DICA/DC(T)		INTERNET		PDC/DICA LAB		
FRI	DICA	DC	PEHV	COUNSELIN G	LICA		AWP	CAO	SPORTS
SAT	AWP	DICA	ASSOCIATION		LICA		CAO	LICA	LIBRARY

Theory/Lab	Faculty Name	L	T	P	O	Sign
Computer Architecture and	Mr.V.Subba Raju	4	1	--	--	<i>[Signature]</i>
Linear I C Applications	Mr.P.Veera Swamy	4	1	--	--	<i>[Signature]</i>
Digital I C Applications	Dr.G.L.Madhumati	4	1	--	--	<i>[Signature]</i>
Digital Communications	Mr.M.Tulasi Dasu	4	1	--	--	<i>[Signature]</i>
Antenna and Wave Propagation	Mr.V.Jaya Prakash	4	1	--	--	<i>[Signature]</i>
Professional Ethics & Human Values	Mrs.M.Mythri	3	1	--	--	<i>[Signature]</i>
Pulse and Digital Circuits Lab	Mr.P.RamaKrishna	--	--	3	--	<i>[Signature]</i>
Linear I C Applications Lab	Mr.P.VeeraSwamy	--	--	3	--	<i>[Signature]</i>
Digital I C Applications Lab	Sri K.RamaKoteswaraRao	--	--	3	--	<i>[Signature]</i>
Association	Dr.G.Asa Jyothi Mrs.I.Pavani Prapurna Mr.Y.Rama Krishna	--	--	--	2	<i>[Signature]</i>
IIC (IOT/DS/C LANG.)	Mr.VSR/Mrs.MM/Mrs.RML	--	--	--	3	<i>[Signature]</i>
Internet	Mr.P.Veera Swamy	--	--	--	1	<i>[Signature]</i>
CRT	T & P Faculty	--	--	--	2	<i>[Signature]</i>
Library	Mr.A.Sivanarayana	--	--	--	1	<i>[Signature]</i>
Counseling	Mrs.VBSSN/Dr.VSR/Dr.GLM/Mrs.IPP	--	--	--	1	<i>[Signature]</i>
Sports	Mrs.R.MahaLaxmi	--	--	--	1	<i>[Signature]</i>
Class Incharge	Mr.M.Tulasi Dasu					<i>[Signature]</i>

*[Signature]*  
 IC Time Tables/Date

*[Signature]*  
 HOD/Date

*[Signature]*  
 9/6/18  
 Principal

HEAD OF THE DEPARTMENT  
 Electronics & Communication Engineering  
 DHANEKULA INSTITUTE  
 OF ENGINEERING AND TECHNOLOGY  
 GANDURU, VIJAYAWADA-521 139





I Year – I SEMESTER

T P C  
3+1 0 3

**Professional Ethics and Human Values**

**UNIT I : Human Values:**

Morals, Values and Ethics – Integrity – Work Ethics – Service Learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty – Courage – Value time – Co-operation – Commitment – Empathy – Self-confidence – Spirituality- Character.

**UNIT II : Engineering Ethics:**

The History of Ethics-Purposes for Engineering Ethics-Engineering Ethics-Consensus and Controversy –Professional and Professionalism –Professional Roles to be played by an Engineer –Self Interest, Customs and Religion-Uses of Ethical Theories-Professional Ethics-Types of Inquiry – Engineering and Ethics-Kohlberg’s Theory – Gilligan’s Argument –Heinz’s Dilemma.

**UNIT III : Engineering as Social Experimentation:**

Comparison with Standard Experiments – Knowledge gained – Conscientiousness – Relevant Information – Learning from the Past – Engineers as Managers, Consultants, and Leaders – Accountability – Role of Codes – Codes and Experimental Nature of Engineering.

**UNIT IV : Engineers’ Responsibility for Safety and Risk:**

Safety and Risk, Concept of Safety – Types of Risks – Voluntary v/s Involuntary Risk- Short term v/s Long term Consequences- Expected Probability- Reversible Effects- Threshold Levels for Risk- Delayed v/s Immediate Risk- Safety and the Engineer – Designing for Safety – Risk-Benefit Analysis-Accidents.

**UNIT V : Engineers’ Responsibilities and Rights:**

Collegiality-Techniques for Achieving Collegiality –Two Senses of Loyalty-obligations of Loyalty-misguided Loyalty – professionalism and Loyalty-Professional Rights –Professional Responsibilities – confidential and proprietary information-Conflict of Interest-solving conflict problems – Self-interest, Customs and Religion- Ethical egoism-Collective bargaining-Confidentiality-Acceptance of Bribes/Gifts-when is a Gift and a Bribe-examples of Gifts v/s Bribes-problem solving-interests in other companies-Occupational Crimes-industrial espionage-price fixing-endangering lives-Whistle Blowing-types of whistle blowing-when should it be attempted-preventing whistle blowing.





**UNIT VI : Global Issues:**

Globalization- Cross-culture Issues-Environmental Ethics-Computer Ethics-computers as the instrument of Unethical behaviour-computers as the object of Unethical Acts-autonomous computers-computer codes of Ethics-Weapons Development-Ethics and Research-Analysing Ethical Problems in Research-Intellectual Property Rights.

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**Text Books:**

1. "Engineering Ethics and Human Values" by M.Govindarajan, S.Natarajan and V.S.SenthilKumar-PHI Learning Pvt. Ltd-2009.
2. "Professional Ethics and Morals" by Prof.A.R.Aryasri, Dharanikota Suyodhana-Maruthi Publications.
3. "Professional Ethics and Human Values" by A.Alavudeen, R.Kalil Rahman and M.Jayakumaran- Laxmi Publications.
4. "Professional Ethics and Human Values" by Prof. D.R. Kiran.
5. "Indian Culture, Values and Professional Ethics" by PSR Murthy-BS Publication.
6. "Ethics in Engineering" by Mike W. Martin and Roland Schinzinger - Tata McGraw-Hill - 2003.
7. "Engineering Ethics" by Harris, Pritchard and Rabins, CENGAGE Learning, India Edition, 2009.





III Year - I Semester

L	T	P	C
0	3	0	0

### PROFESSIONAL ETHICS AND HUMAN VALUES

#### Course Objectives:

\*To give basic insights and inputs to the student to inculcate Human values to grow as a responsible human beings with proper personality.

\*Professional Ethics instills the student to maintain ethical conduct and discharge their professional duties.

#### UNIT I: Human Values:

Morals, Values and Ethics – Integrity – Trustworthiness - Work Ethics – Service Learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty – Courage – Value Time – Co-operation – Commitment – Empathy – Self-confidence – Spirituality- Character.

#### UNIT II: Principles for Harmony:

Truthfulness – Customs and Traditions - Value Education – Human Dignity – Human Rights – Fundamental Duties - Aspirations and Harmony (I, We & Nature) – Gender Bias - Emotional Intelligence – Salovey – Mayer Model – Emotional Competencies – Conscientiousness.

#### UNIT III: Engineering Ethics and Social Experimentation:

History of Ethics - Need of Engineering Ethics - Senses of Engineering Ethics- Profession and Professionalism — Self Interest - Moral Autonomy – Utilitarianism – Virtue Theory - Uses of Ethical Theories - Deontology- Types of Inquiry – Kohlberg's Theory - Gilligan's Argument – Heinz's Dilemma - Comparison with Standard Experiments — Learning from the Past – Engineers as Managers – Consultants and Leaders – Balanced Outlook on Law - Role of Codes – Codes and Experimental Nature of Engineering.

#### UNIT IV: Engineers' Responsibilities towards Safety and Risk:

Concept of Safety - Safety and Risk – Types of Risks – Voluntary v/s Involuntary Risk – Consequences - Risk Assessment – Accountability – Liability - Reversible Effects - Threshold Levels of Risk - Delayed v/s Immediate Risk - Safety and the Engineer – Designing for Safety – Risk-Benefit Analysis- Accidents.

#### UNIT V: Engineers' Duties and Rights:

Concept of Duty - Professional Duties – Collegiality - Techniques for Achieving Collegiality – Senses of Loyalty - Consensus and Controversy - Professional and Individual Rights – Confidential and Proprietary Information - Conflict of Interest- Ethical egoism - Collective Bargaining – Confidentiality - Gifts and Bribes - Problem solving- Occupational Crimes- Industrial Espionage- Price Fixing- Whistle Blowing.

#### UNIT VI: Global Issues:

Globalization and MNCs – Cross Culture Issues - Business Ethics – Media Ethics - Environmental Ethics – Endangering Lives - Bio Ethics - Computer Ethics - War Ethics – Research Ethics - Intellectual Property Rights.

- Related Cases Shall be dealt where ever necessary.





**Outcome:**

- \*It gives a comprehensive understanding of a variety issues that are encountered by every professional in discharging professional duties.
- \*It provides the student the sensitivity and global outlook in the contemporary world to fulfill the professional obligations effectively.

**References:**

1. Professional Ethics by R. Subramaniam – Oxford Publications, New Delhi.
2. Ethics in Engineering by Mike W. Martin and Roland Schinzinger - Tata McGraw-Hill – 2003.
3. Professional Ethics and Morals by Prof.A.R.Aryasri, DharanikotaSuyodhana - Maruthi Publications.
4. Engineering Ethics by Harris, Pritchard and Rabins, Cengage Learning, New Delhi.
5. Human Values & Professional Ethics by S. B. Gogate, Vikas Publishing House Pvt. Ltd., Noida.
6. Engineering Ethics & Human Values by M.Govindarajan, S.Natarajan and V.S.SenthilKumar-PHI Learning Pvt. Ltd – 2009.
7. Professional Ethics and Human Values by A. Alavudeen, R.Kalil Rahman and M. Jayakumaran – University Science Press.
8. Professional Ethics and Human Values by Prof.D.R.Kiran-Tata McGraw-Hill - 2013
9. Human Values And Professional Ethics by Jayshree Suresh and B. S. Raghavan, S.Chand Publications

