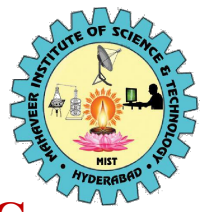


Vysapuri, Bandlaguda Post:Keshavgiri,  
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E-mail: [e3hod.mech@gmail.com](mailto:e3hod.mech@gmail.com),  
Website: [www.mist.ac.in](http://www.mist.ac.in),

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INSTITUTE OF SCIENCE & TECHNOLOGY


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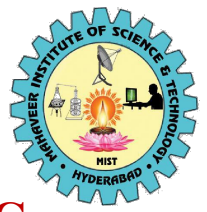


## DEPARTMENT OF MECHANICAL ENGINEERING

**Subjects related to Sensitization of students & employees and constitutional obligations: values, rights, duties and responsibilities of citizens as prescribed by JNTUH.**

- 1. Gender Sensitization**
- 2. Intellectual Property Rights**
- 3. Constitution of India**
- 4. Professional Ethics**

  
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INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005.



## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2016-2017

Year: II

SEM: II

Section: A

W.E.F: 02-12-2016

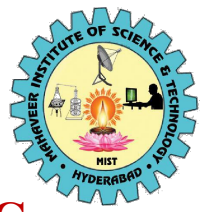
Day/ Time	9.30 - 10.20	10.20 - 11.10	11.10 - 12.00	12.00 - 12.50	LUNCH 12:50 - 1.40	01.40- 02.30	02.30- 03.20	03.20-04.10
MON	M-II	TE-I	KOM	PT		GS	KOM	SPORTS
TUE	PT	MOF&HM	KOM	MOF&HM		PT/MOF&HM- LAB		
WED	TE-I	MD				MOF&HM	M-II	NPTEL/INT
THU	M-II	TE-I	KOM	TE-I		MD		
FRI	KOM	M-II	COUN/ SEMINAR	M-II		PT/MOF&HM- LAB		
SAT	MOF&HM	PT	KOM	LIBRARY		PT	TE-I	GS

S.NO.	COURSE CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	A40312	PRODUCTION TECHNOLOGY	PT	U.RAMAKRISHNA
2	A40309	KINEMATICS OF MACHINERY	KOM	M.D.SAJJAD
3	A40112	MOF&HM	MOF&HM	P.D RAVI PRASAD
4	A40313	THERMAL ENGINEERING-1	TE-1	B.HARINADHREDDY
5	A40310	MACHINE DRAWING	MD	CH.SESHAGIRI RAO
6	A40006	MATHEMATICS-II	M-II	N.PRAKASH
7	A40382	PT LAB	PTL	U.RAMAKRISHNA
8	A40188	MOF&HM- LAB	MOF&HM- LAB	P.D RAVI PRASAD
9		GENDER SENSITIZATION	GS	D.SANTHOSHKUMAR
10		SPORTS	SPT	K.DEVI SINGH
11		LIBRARY	LIB	E KRISHNA DEEPAK
13		NPTEL/INTERNET	NPTEL/INT	T SHAHINSHA
13		COUNSELING/SEMINAR	COUN/SEMIN AR	G BHAVANI

CLASS TEACHER: M.D.SAJJAD

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## DEPARTMENT OF MECHANICAL ENGINEERING

MC300HS: GENDER SENSITIZATION LAB  
B.Tech. II Year II Sem.

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### Course Objectives:

- To develop students' sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
- To introduce students to information about some key biological aspects of genders.
- To expose the students to debates on the politics and economics of work.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

### Course Outcomes:

- Students will have developed a better understanding of important issues related to gender in contemporary India.
  - Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender.
- This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.
- Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
  - Students will acquire insight into the gendered division of labour and its relation to politics and economics.
  - Men and women students and professionals will be better equipped to work and live together as equals.
  - Students will develop a sense of appreciation of women in all walks of life.
  - Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.

### UNIT-I

#### UNDERSTANDING GENDER

**Gender:** Why Should We Study It? (*Towards a World of Equals*: Unit -1)

**Socialization:** Making Women, Making Men (*Towards a World of Equals*: Unit -2)

Introduction. Preparing for Womanhood. Growing up Male. First lessons in Caste. Different Masculinities.

### UNIT-II

#### GENDER AND BIOLOGY

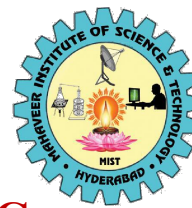
**Missing Women:** Sex Selection and Its Consequences (*Towards a World of Equals*: Unit -4)

Declining Sex Ratio. Demographic Consequences.

**Gender Spectrum:** Beyond the Binary (*Towards a World of Equals*: Unit -10)

Two or Many? Struggles with Discrimination.

### UNIT-III



## DEPARTMENT OF MECHANICAL ENGINEERING

### GENDER AND LABOUR

**Housework:** the Invisible Labour (*Towards a World of Equals*: Unit -3)

“My Mother doesn’t Work.” “Share the Load.”

**Women’s Work:** Its Politics and Economics (*Towards a World of Equals*: Unit -7)

Fact and Fiction. Unrecognized and Unaccounted work. Additional Reading: Wages and Conditions of Work.

### UNIT-IV

#### ISSUES OF VIOLENCE

**Sexual Harassment:** Say No! (*Towards a World of Equals*: Unit -6)

Sexual Harassment, not Eve-teasing- Coping with Everyday Harassment- Further Reading:

“Chupulu”.

**Domestic Violence:** Speaking Out (*Towards a World of Equals*: Unit -8)

Is Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives. Additional Reading: New Forums for Justice.

Thinking about Sexual Violence (*Towards a World of Equals*: Unit -11)

Blaming the Victim-“I Fought for my Life...” - Additional Reading: The Caste Face of Violence.

### UNIT-V

#### GENDER: CO - EXISTENCE

**Just Relationships:** Being Together as Equals (*Towards a World of Equals*: Unit -12)

Mary Kom and Onler. Love and Acid just do not Mix. Love Letters. Mothers and Fathers.

Additional Reading: Rosa Parks-The Brave Heart.

### TEXTBOOK

All the five Units in the Textbook, “*Towards a World of Equals: A Bilingual Textbook on Gender*” written by A. Suneetha, Uma Bhrugubanda, Duggirala Vasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu and published by **Telugu Akademi, Hyderabad**,Telangana State in the year **2015**.

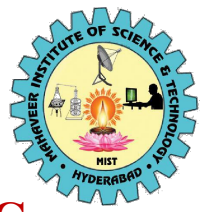
**Note:** Since it is an Interdisciplinary Course, Resource Persons can be drawn from the fields of English Literature or Sociology or Political Science or any other qualified faculty who has expertise in this field from engineering departments.

### REFERENCE BOOKS:

1. Menon, Nivedita. Seeing like a Feminist. New Delhi: Zubaan-Penguin Books, 2012

2. Abdulali Sohaila. “*I Fought For My Life...and Won.*” Available online at:

<http://www.thealternative.in/lifestyle/i-fought-for-my-lifeand-won-sohail>



## DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year : 2016-2017

Year:III

SEM: II

Section: B

W.E.F: 02-12-2016

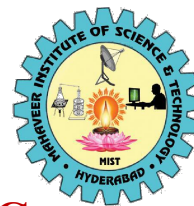
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MON	DOMM-II	IPR	R&AC	DOMM-II		FEM	HT	NPTEL/INT
TUE	HT	AE	IPR	COUN/ SEMINAR		HT	FEM	SPORTS
WED	IPR	FEM	DOMM-II	IPR		HT/AECS LAB		
THU	R&AC	FEM	AE	HT		FEM	IPR	DOMM-II
FRI	AE	HT/AECS LAB				R&AC	AE	LIBRARY
SAT	FEM	DOMM-II	R&AC	HT		IPR	AE	R&AC

S.NO	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	A62405	AUTOMOBILE ENGINEERING	AE	CH.SESHAGIRI RAO
2	A60330	FINITE ELEMENT METHODS	FEM	G.SOMASEKHAR
3	A60329	DESIGN OF MACHINE MEMBERS II	DMMII	V.ARUN
4	A60331	HEAT TRANSFER	HT	B.NAGESHWAR
5	A60334	REFRIGERATION & AIR CONDITIONING	RAC	V.ARUN
6	A60017	INTELLECTUAL PROPERTY RIGHTS	IPR	D.SANTOSH KUMAR
7	A60387	HEAT TRANSFER LAB	HT LAB	B.NAGESHWAR
8	A60086	ADVANCED COMMUNICATION SKILLS LAB	ACS LAB	P.V. VINITHA
9		NPTEL/INTERNET	NPTEL/INT	T SHAHINSHA
10		SPORTS	SPT	K.DEVI SINGH
11		LIBRARY	LIB	E KRISHNA DEEPAK
12		COUNSELING/SEMINAR	COUN/ SEMINAR	G BHAVANI

CLASS TEACHER: D.SANTOSH KUMAR

  
HOD-MECH

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

B.Tech. MECH Syllabus JNTU HYDERABAD

**\*MC510: INTELLECTUAL PROPERTY RIGHTS**  
III Year B.Tech. MECH II-Sem

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### UNIT – I

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

### UNIT – II

Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes.

### UNIT – III

Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law.

Law of patents: Foundation of patent law, patent searching process, ownership rights and transfer

### UNIT – IV

Trade Secrets: Trade secrete law, determination of trade secrete status, liability for misappropriations of trade secrets, protection for submission, trade secrete litigation.

Unfair competition: Misappropriation right of publicity, false advertising.

### UNIT – V

New development of intellectual property: new developments in trade mark law; copy right law, patent law, intellectual property audits.

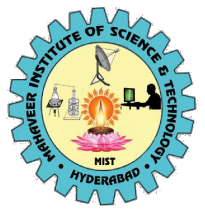
International overview on intellectual property, international – trade mark law, copy right law, international patent law, and international development in trade secrets law.

### TEXT & REFERENCE BOOKS:

1. Intellectual property right, Deborah. E. Bouchoux, Cengage learning.
2. Intellectual property right – Unleashing the knowledge economy, prabuddha ganguli, Tata McGraw Hill Publishing company ltd

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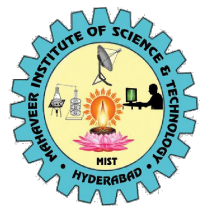
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## DEPARTMENT OF MECHANICAL ENGINEERING

Subject related to Sensitization of students & employees viz: Gender Sensitization , Human Values , Intellectual Property Rights & Constitution of India Prescribed by JNTUH.





## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2017-2018

Year:II

SEM: I

Section: A`

W.E.F: 12-07-2017

Day/ Time	9.30 - 10.20	10.20 11.10	11.10 -12.00	12.00 -12.50	LUNCH 12:50 - 1.40	01.40- 02.30	02.30- 03.20	03.20- 04.10
MON	MOS	KOM	TD	MOS		FUELS/GS LAB		
TUE	MMS	TD	KOM	M-IV		MOS	NPTEL/ INT	TD
WED	KOM	MOS/MMS LAB				M-IV	KOM	SPORTS
THU	LIBRARY	MOS/MMS LAB				MOS	TD	M-IV
FRI	TD	M-IV	MOS	MMS		KOM	COUN/ SEMINAR	M-IV
SAT	MMS	FUELS/GS LAB				M-IV	KOM	TD

S.NO.	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	ME304ES	THERMODYNAMICS	TD	K.GANESAN
2	ME303ES	MECHANICS OF SOLIDS	MOS	M.SONACHALAM
3	ME305ES	METALLURGY & MATERIAL SCIENCE	MMS	B.VENKATESHWAR REDDY
4	MA301BS	MATHAMATICS-IV	M-IV	Mr.s.JAYASREE
5	ME302ES	KINEMATICS OF MACHINERY	KOM	MD.SAZZAD
6	MC300HS	GENDER SENSITIZATION LAB	GS LAB	K.JYOTHI
7	ME307ES& ME308ES	MOS & MMS LAB	MOS & MMS LAB	B.VENKATESHWARAREDDY & M.SONACHALAM
8	ME306ES	FUELS LAB	FL	K.GANESAN
9		NPTEL/INTERNET	NPTEL/INT	T SHAHINSHA
10		SPORTS	SPT	K.DEVI SINGH
11		LIBRARY	LIB	E KRISHNA DEEPAK
12		COUNSELING/SEMINAR	COUN/ SEMINAR	G BHAVANI

CLASS TEACHER: MD.SAZZAD

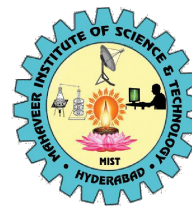


HOD-MECH



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## DEPARTMENT OF MECHANICAL ENGINEERING

MC300HS: GENDER SENSITIZATION LAB

B.Tech. II Year I Sem.

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### Course Objectives:

- To develop students' sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
- To introduce students to information about some key biological aspects of genders.
- To expose the students to debates on the politics and economics of work.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

### Course Outcomes:

- Students will have developed a better understanding of important issues related to gender in contemporary India.
- Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature, and film.
- Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
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- Men and women students and professionals will be better equipped to work and live together as equals.
- Students will develop a sense of appreciation of women in all walks of life.
- Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.

### UNIT-I

#### UNDERSTANDING GENDER

**Gender:** Why Should We Study It? (*Towards a World of Equals*: Unit -1)

**Socialization:** Making Women, Making Men (*Towards a World of Equals*: Unit -2)

Introduction. Preparing for Womanhood. Growing up Male. First lessons in Caste. Different Masculinities.

### UNIT-II

#### GENDER AND BIOLOGY

**Missing Women:** Sex Selection and Its Consequences (*Towards a World of Equals*: Unit -4)

Declining Sex Ratio. Demographic Consequences.

**Gender Spectrum:** Beyond the Binary (*Towards a World of Equals*: Unit -10)

Two or Many? Struggles with Discrimination.

### UNIT-III

#### GENDER AND LABOUR

**Housework:** the Invisible Labour (*Towards a World of Equals*: Unit -3)

"My Mother doesn't Work." "Share the Load."

**Women's Work:** Its Politics and Economics (*Towards a World of Equals*: Unit -7)

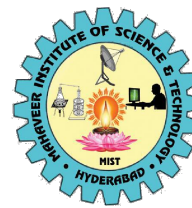
Fact and Fiction. Unrecognized and Unaccounted work. Additional Reading: Wages and Conditions of Work.

### UNIT-IV

Vysapuri, Bandlaguda Post:Keshavgi,  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### ISSUES OF VIOLENCE

**Sexual Harassment:** Say No! (*Towards a World of Equals*: Unit -6)

Sexual Harassment, not Eve-teasing- Coping with Everyday Harassment- Further Reading: “Chupulu”.

**Domestic Violence:** Speaking Out (*Towards a World of Equals*: Unit -8)

Is Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives. Additional Reading: New Forums for Justice.

Thinking about Sexual Violence (*Towards a World of Equals*: Unit -11)

Blaming the Victim-“I Fought for my Life....” - Additional Reading: The Caste Face of Violence.

### UNIT-V

#### GENDER: CO - EXISTENCE

**Just Relationships:** Being Together as Equals (*Towards a World of Equals*: Unit -12)

Mary Kom and Onler. Love and Acid just do not Mix. Love Letters. Mothers and Fathers. Additional Reading: Rosa Parks-The Brave Heart.

#### TEXTBOOK

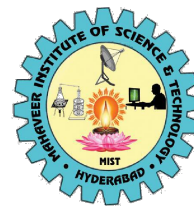
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**Note:** Since it is an Interdisciplinary Course, Resource Persons can be drawn from the fields of English Literature or Sociology or Political Science or any other qualified faculty who has expertise in this field from engineering departments.

#### REFERENCE BOOKS:

1. Menon, Nivedita. Seeing like a Feminist. New Delhi: Zubaan-Penguin Books, 2012
2. Abdulali Sohaila. “*I Fought For My Life...and Won.*” Available online at:  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2017-2018

Year:II

SEM: I

Section: B

W.E.F: 12-07-2017

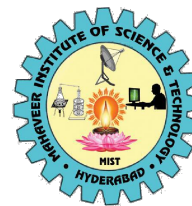
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TUE	TD	MOS	TD	M-IV		MOS/MMS LAB		
WED	MMS	TD	MMS	LIBRARY		FUELS/GS LAB		
THU	KOM	TD	KOM	MOS		FUELS/GS LAB		
FRI	MOS	MMS	KOM	M-IV		MOS/MMS LAB		
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S.NO.	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
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7	ME307ES& ME308ES	MOS & MMS LAB	MOS & MMS LAB	B.HARINATH REDDY&D.SANTOSH KUMAR
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9		NPTEL/INTERNET	NPTEL/INT	T SHAHINSHA
10		SPORTS	SPT	K.DEVI SINGH
11		LIBRARY	LIB	E KRISHNA DEEPAK
12		COUNSELING/SEMINAR	COUN/SEMINAR	G BHAVANI

CLASS TEACHER: B.NAGESWAR

  
HOD-MECH

  
PRINCIPAL



## DEPARTMENT OF MECHANICAL ENGINEERING

B.Tech. II Year I Sem.

L T P C  
0 0 3 0

### Course Objectives:

- To develop student's sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
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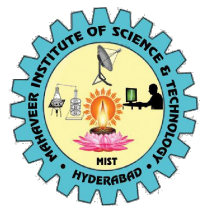
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Is Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives. Additional Reading: New Forums for Justice.

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## DEPARTMENT OF MECHANICAL ENGINEERING

Thinking about Sexual Violence (*Towards a World of Equals*: Unit -11)

Blaming the Victim-“I Fought for my Life....” - Additional Reading: The Caste Face of Violence.

### UNIT-V

#### GENDER: CO - EXISTENCE

**Just Relationships:** Being Together as Equals (*Towards a World of Equals*: Unit -12)

Mary Kom and Onler. Love and Acid just do not Mix. Love Letters. Mothers and Fathers.

Additional Reading: Rosa Parks-The Brave Heart.

#### TEXTBOOK

All the five Units in the Textbook, “*Towards a World of Equals: A Bilingual Textbook on Gender*” written by A. Suneetha, Uma Bhrugubanda, Duggirala Vasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu and published by **Telugu Akademi, Hyderabad**,Telangana State in the year **2015**.

**Note:** Since it is an Interdisciplinary Course, Resource Persons can be drawn from the fields of English Literature or Sociology or Political Science or any other qualified faculty who has expertise in this field from engineering departments.

#### REFERENCE BOOKS:

1. Menon, Nivedita. *Seeing like a Feminist*. New Delhi: Zubaan-Penguin Books, 2012
2. Abdulali Sohaila. “*I Fought For My Life...and Won.*” Available online at: <http://www.thealternative.in/lifestyle/i-fought-for-my-lifeand-won-sohail>



## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2017-2018

Year:III

SEM: II

Section: A

W.E.F: 14-12-2017

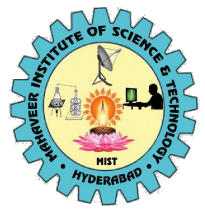
Day/Time	9.30 - 10.20	10.20 11.10	11.10 -12.00	12.00 -12.50	LUNCH 12.50 - 1.40	01.40- 02.30	02.30- 03.20	03.20-04.10
MON	HT	FEM	R&AC	IPR		HT/ACS LAB		
TUE	HT	FEM	HT	R&AC		DOMM-II	NPTEL/INT	FEM
WED	LIBRARY	HT/ACS LAB				HT	R&AC	DOMM-II
THU	IPR	HT	AE	DOMM-II		AE	COUN/ SEMINAR	HT
FRI	DOMM-II	R&AC	DOMM-II	R&AC		R&AC	DOMM-II	R&AC
SAT	FEM	DOMM-II	HT	AE		IPR	FEM	SPORTS

S.NO.	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	A62405	AUTOMOBILE ENGINEERING	AE	M RAMDAS
2	A60330	FINITE ELEMENT METHODS	FEM	B VENKATESHWAR REDDY
3	A60329	DESIGN OF MACHINE MEMBERS II	DMMII	M SONACHALAM
4	A60331	HEAT TRANSFER	HT	B NAGESHWAR
5	A60334	REFRIGERATION & AIR CONDITIONING	RAC	K GANESHAN
6	A60017	INTELLECTUAL PROPERTY RIGHTS	IPR	D SANTOSH KUMAR
7	A60387	HEAT TRANSFER LAB	HT LAB	B NAGESHWAR
8	A60086	ADVANCED COMMUNICATION SKILLS LAB	ACS LAB	P V VINITHA
9		NPTEL/INTERNET	NPTEL/ INT	T SHAHINSHA
10		SPORTS	SPT	K.DEVI SINGH
11		LIBRARY	LIB	E KRISHNA DEEPAK
12		COUNSELING/SEMINAR	COUN/SEMINAR	G BHAVANI

CLASS TEACHER: M SONACHALAM

  
HOD-MECH

  
PRINCIPAL



## DEPARTMENT OF MECHANICAL ENGINEERING

B.Tech. MECH Syllabus JNTU HYDERABAD

**\*MC510: INTELLECTUAL PROPERTY RIGHTS**  
III Year B.Tech. MECH II-Sem

**L T P C**  
**3 0 0 0**

### UNIT – I

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

### UNIT – II

Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes.

### UNIT – III

Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law.

Law of patents: Foundation of patent law, patent searching process, ownership rights and transfer

### UNIT – IV

Trade Secrets: Trade secrete law, determination of trade secrete status, liability for misappropriations of trade secrets, protection for submission, trade secrete litigation.

Unfair competition: Misappropriation right of publicity, false advertising.

### UNIT – V

New development of intellectual property: new developments in trade mark law; copy right law, patent law, intellectual property audits.

International overview on intellectual property, international – trade mark law, copy right law, international patent law, and international development in trade secrets law.

### TEXT & REFERENCE BOOKS:

1. Intellectual property right, Deborah. E. Bouchoux, Cengage learning.
2. Intellectual property right – Unleashing the knowledge economy, prabuddha ganguli, Tata McGraw Hill Publishing company ltd



## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2017-2018

Year:III

SEM: II

Section: B

W.E.F: 14-12-2017

Day/Time	9.30 - 10.20	10.20 - 11.10	11.10 - 12.00	12.00 - 12.50	LUNCH 12.50 - 1.40	01.40- 02.30	02.30- 03.20	03.20-04.10
MON	IPR	AE	R&AC	COUN/ SEMINAR		DOMM-II	FEM	DOMM-II
TUE	IPR	FEM	FEM	AE		HT/ACS LAB		
WED	HT	HT	R&AC	AE		FEM	R&AC	SPORTS
THU	FEM	R&AC	AE	IPR		HT	HT	DOMM-II
FRI	DOMM-II	HT/ACS LAB				R&AC	DOMM-II	LIBRARY
SAT	AE	DOMM-II	HT	NPTEL/INT		R&AC	IPR	FEM

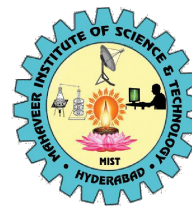
S.NO	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	A62405	AUTOMOBILE ENGINEERING	AE	N SATHISH KUMAR
2	A60330	FINITE ELEMENT METHODS	FEM	G K SHANMUKH DEV
3	A60329	DESIGN OF MACHINE MEMBERS II	DMMII	M SONACHALAM
4	A60331	HEAT TRANSFER	HT	Dr.S.MURALI
5	A60334	REFRIGERATION & AIR CONDITIONING	RAC	B HARINATH REDDY
6	A60017	INTELLECTUAL PROPERTY RIGHTS	IPR	S SUDHAKARA
7	A60387	HEAT TRANSFER LAB	HT LAB	P HARI
8	A60086	ADVANCED COMMUNICATION SKILLS LAB	ACS LAB	P MANJURANI
9		NPTEL/INTERNET	NPTEL/INT	T SHAHINSHA
10		SPORTS	SPT	K.DEVI SINGH
11		LIBRARY	LIB	E KRISHNA DEEPAK
12		COUNSELLING/SEMINAR	COUN/SEMINAR	G BHAVANI

CLASS TEACHER: S.SUDHAKARA

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

B.Tech. MECH Syllabus JNTU HYDERABAD

**\*MC510: INTELLECTUAL PROPERTY RIGHTS**  
**III Year B.Tech. MECH II-Sem**

**L T P C**  
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### **UNIT – I**

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

### **UNIT – II**

Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes.

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Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law.

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### **TEXT & REFERENCE BOOKS:**

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2. Intellectual property right – Unleashing the knowledge economy, prabuddha ganguli, Tata McGraw Hill Publishing company ltd

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Tel: 040-64596979,8978380692,Fax: 040-24455003  
E-mail: [e3hod.mech@gmail.com](mailto:e3hod.mech@gmail.com),  
Website: [www.mist.ac.in](http://www.mist.ac.in),

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## DEPARTMENT OF MECHANICAL ENGINEERING

Subject related to Sensitization of students & employees viz: Gender Sensitization , Human Values ,Intellectual Property Rights & Constitution of India Prescribed by JNTUH.





## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2018-2019

Year:II

SEM: I

Section: A`

W.E.F: 09-07-2018

Day/ Time	9.30 - 10.20	10.20 11.10	11.10 -12.00	12.00 -12.50	LUNCH 12.50 - 1.40	01.40- 02.30	02.30- 03.20	03.20-04.10
MON	KOM	MMS	TD	MOS		MMS	KOM	COUN/ SEMINAR
TUE	TD	FUELS LAB				KOM	M-IV	SPORTS
WED	MMS	TD	KOM	MOS		MOS/MMS LAB		
THU	MOS	M-IV	MMS	KOM		FUELS LAB		
FRI	M-IV	GS LAB				TD	M-IV	LIBRARY
SAT	NPTEL/INT	MOS/MMS LAB				M-IV	MOS	TD
S.NO.	SUB CODE	COURSE NAME		SUB. ABBV.	NAME OF THE FACULTY			
1	ME302ES	KINEMATICS OF MACHINERY		KOM	Dr. B.NAGESHWAR RAO			
2	ME304ES	THERMODYNAMICS		TD	Dr.S.MURALI			
3	ME305ES	METALLURGY AND MATERIAL SCIENCE		MMS	S. SUDHAKARA			
4	ME303ES	MECHANICS OF SOLIDS		MOS	MD. SAJJAD			
5	MA301BS	MATHEMATICS-IV		M-IV	P.V.V.S.S.KRISHNA			
6	ME307ES	MECHANICS OF SOLIDS LAB		MOSL	MD. SAZZAD			
7	ME308ES	METALLURGY AND MATERIAL SCIENCE LAB		MMSL	S. SUDHAKARA			
8	ME306ES	FUELS LAB		FL	K. GANESAN			
9	MC300HS	GS LAB		GSL	K. JYOTHI			
10		NPTEL/INTERNET		NPTEL/INT	T SHAHINSHA			
11		SPORTS		SPT	K.DEVI SINGH			
12		LIBRARY		LIB	M.ANIL			
13		COUNSELING/SEMINAR		COUN/ SEMINAR	G.BHAVANI			
<b>CLASS TEACHER: MD. SAJJAD</b>								

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*Kshul*  
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## DEPARTMENT OF MECHANICAL ENGINEERING

MC300HS: GENDER SENSITIZATION LAB  
B.Tech. II Year I Sem.

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### Course Objectives:

- To develop students' sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
- To introduce students to information about some key biological aspects of genders.
- To expose the students to debates on the politics and economics of work.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

### Course Outcomes:

- Students will have developed a better understanding of important issues related to gender in contemporary India.
- Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature, and film.
- Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
- Students will acquire insight into the gendered division of labour and its relation to politics and economics.
- Men and women students and professionals will be better equipped to work and live together as equals.
- Students will develop a sense of appreciation of women in all walks of life.
- Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.

### UNIT-I

#### UNDERSTANDING GENDER

**Gender:** Why Should We Study It? (*Towards a World of Equals*: Unit -1)

**Socialization:** Making Women, Making Men (*Towards a World of Equals*: Unit -2)

Introduction. Preparing for Womanhood. Growing up Male. First lessons in Caste. Different Masculinities.

### UNIT-II

#### GENDER AND BIOLOGY

**Missing Women:** Sex Selection and Its Consequences (*Towards a World of Equals*: Unit -4) Declining Sex Ratio. Demographic Consequences.

**Gender Spectrum:** Beyond the Binary (*Towards a World of Equals*: Unit -10) Two or Many? Struggles with Discrimination.

### UNIT-III

#### GENDER AND LABOUR

**Housework:** the Invisible Labour (*Towards a World of Equals*: Unit -3)

“My Mother doesn't Work.” “Share the Load.”

**Women's Work:** Its Politics and Economics (*Towards a World of Equals*: Unit -7)

Fact and Fiction. Unrecognized and Unaccounted work. Additional Reading: Wages and Conditions of Work.

### UNIT-IV

#### ISSUES OF VIOLENCE

**Sexual Harassment:** Say No! (*Towards a World of Equals*: Unit -6)

Sexual Harassment, not Eve-teasing- Coping with Everyday Harassment- Further Reading: “Chupulu”.

**Domestic Violence:** Speaking Out (*Towards a World of Equals*: Unit -8)

Is Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives. Additional Reading: New Forums for Justice.

Thinking about Sexual Violence (*Towards a World of Equals*: Unit -11)

Blaming the Victim-“I Fought for my Life....” - Additional Reading: The Caste Face of Violence.

Vysapuri, Bandlaguda Post:Keshavgi,  
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Website: [www.mist.ac.in](http://www.mist.ac.in),

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## DEPARTMENT OF MECHANICAL ENGINEERING

### UNIT-V

#### GENDER: CO - EXISTENCE

**Just Relationships:** Being Together as Equals (*Towards a World of Equals*: Unit -12)

Mary Kom and Onler. Love and Acid just do not Mix. Love Letters. Mothers and Fathers. Additional Reading: Rosa Parks-The Brave Heart.

#### TEXTBOOK

All the five Units in the Textbook, "*Towards a World of Equals: A Bilingual Textbook on Gender*" written by A. Sunetha, Uma Bhrugubanda, Duggirala Vasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu and published by **Telugu Akademi, Hyderabad**,Telangana State in the year **2015**.

**Note:** Since it is an Interdisciplinary Course, Resource Persons can be drawn from the fields of English Literature or Sociology or Political Science or any other qualified faculty who has expertise in this field from engineering departments.

#### REFERENCE BOOKS:

1. Menon, Nivedita. Seeing like a Feminist. New Delhi: Zubaan-Penguin Books, 2012
2. Abdulali Sohaila. "*I Fought For My Life...and Won.*" Available online at: <http://www.thealternative.in/lifestyle/i-fought-for-my-lifeand-won-sohail>



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CLASS TIME TABLE**

Academic Year : 2018-2019

Year:III

SEM: I

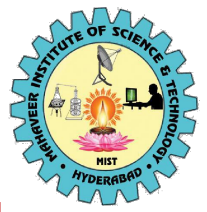
Section: B

W.E.F: 09-07-2018

Day/ Time	9.30 - 10.20	10.20 11.10	11.10 -12.00	12.00 -12.50	LUNCH 12.50 - 1.40	01.40- 02.30	02.30- 03.20	03.20-04.10
MON	TE-I	MT&EMT LAB				DOMM I	FM	MMT
TUE	FM	DOMM I	MMT	NCPG		TE LAB		
WED	DOMM I	PE	NPTEL/INT	TE-I		MT&EMT LAB		
THU	TE-I	MMT	DOMM I	NCPG		TE-I	TE-I	LIBRARY
FRI	NCPG	DOMM I	FM	COUN/ SEMINAR		MMT	NCPG	SPORTS
SAT	PE	TE LAB				FM	PE	NCPG
S.NO.	SUB CODE	COURSE NAME		SUB. ABBV.	NAME OF THE FACULTY			
1	ME501PC	DESIGN OF MACHINE MEMBERS - I		DOMM-I	G K SHANMUKH DEV			
2	ME502PC	THERMAL ENGINEERING		TE-I	E KRISHNA DEEPAK			
3	ME503PC	METROLOGY & MACHINE TOOLS		MMT	D SANTHOSH KUMAR			
4	SM504MS	FUNDAMENTALS OF MANAGEMENT		FM	CH RAGHUNATH REDDY			
5	135CU	NON CONVENTIONAL POWER GENERATION		NCPG	B SATISH			
6	ME505PC	THERMAL ENGINEERING LAB		TEL	E KRISHNA DEEPAK			
7	ME506PC	MACHINE TOOLS LAB		MTL	D.SANTHOSH KUMAR			
8	ME507PC	ENGINEERING METROLOGY LAB		EML	M RAMADAS			
9	MC500HS	PROFESSIONAL ETHICS		PE	O LAKSHMI NARAYANA			
10		NPTEL/INTERNET		NPTEL/INT	T SHAHINSHA			
11		SPORTS		SPT	K.DEVI SINGH			
12		COUNSELING/SEMINAR		COUN/ SEMINAR	G.BHAVANI			
<b>CLASS TEACHER: D SANTHOSH KUMAR</b>								

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## DEPARTMENT OF MECHANICAL ENGINEERING

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
III Year B.Tech. MECH I Sem L T/P/D C

4 -/- 4

### HUMAN VALUES AND PROFESSIONAL ETHICS (Open Elective)

**Objectives :** This introductory course input is intended

- To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
- To facilitate the development of a Holistic perspective among students towards life, profession and happiness, based on a correct understanding of the Human reality and the rest of Existence. Such a holistic perspective forms the basis of Value based living in a natural way.
- To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually satisfying human behavior and mutually enriching interaction with Nature.

#### Unit I:

Course Introduction - Need, Basic Guidelines, Content and Process for Value Education: Understanding the need, basic guidelines, content and process for Value Education. Self Exploration—what is it? - its content and process; 'Natural Acceptance' and Experiential Validation- as the mechanism for self exploration. Continuous Happiness and Prosperity- A look at basic Human Aspirations. Right understanding, Relationship and Physical Facilities- the basic requirements for fulfillment of aspirations of every human being with their correct priority. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario. Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

#### Unit II:

Understanding Harmony in the Human Being - Harmony in Myself! : Understanding human being as a co-existence of the sentient 'I' and the material 'Body'. Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer). Understanding the characteristics and activities of 'I' and harmony in 'I'. Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail. Programs to ensure Sanyam and Swasthya.

#### Unit III:

Understanding Harmony in the Family and Society- Harmony in Human - Human Relationship : Understanding harmony in the Family- the basic unit of human interaction. Understanding values in human-human relationship; meaning of Nyaya and program for its fulfillment to ensure Ubhay-tripti; **Trust (Vishwas) and Respect (Samman) as the foundational values of relationship.** Understanding the meaning of Vishwas; Difference between intention and competence. Understanding the meaning of Samman, Difference between respect and differentiation; the other salient values in relationship. Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astitva as comprehensive Human Goals. Visualizing a universal harmonious order in society- Undivided Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha )- from family to world family!

#### Unit IV:

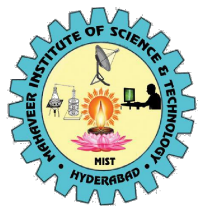
Understanding Harmony in the Nature and Existence - Whole existence as Co-existence : Understanding the harmony in the Nature. Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature. Understanding Existence as Co-existence (Sahastitva) of mutually interacting units in all-pervasive space. Holistic perception of harmony at all levels of existence.

#### Unit V:

Vysapuri, Bandlaguda Post:Keshavgiri,  
Hyderabad-500 005, TELANGANA INDIA  
Tel: 040-64596979,8978380692,Fax: 040-24455003  
E-mail: [e3hod.mech@gmail.com](mailto:e3hod.mech@gmail.com),  
Website: [www.mist.ac.in](http://www.mist.ac.in),

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## DEPARTMENT OF MECHANICAL ENGINEERING

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Implications of the above Holistic Understanding of Harmony on Professional Ethics : Natural acceptance of human values. Definitiveness of Ethical Human Conduct. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order. Competence in professional ethics:

- a) Ability to utilize the professional competence for augmenting universal human order,
- b) Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems,
- c) Ability to identify and develop appropriate technologies and management patterns for above production systems.

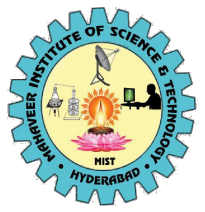
Case studies of typical holistic technologies, management models and production systems. Strategy for transition from the present state to Universal Human Order:

- a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers
- b) At the level of society: as mutually enriching institutions and organizations

### TEXT BOOKS

1. R R Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics





**DEPARTMENT OF MECHANICAL ENGINEERING**

**CLASS TIME TABLE**

Academic Year : 2018-2019

Year:III

SEM: II

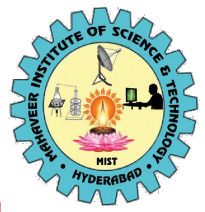
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TUE	TE-II	HTL/CADMATL					DMM-II	DMM-II	IPR
WED	DMM-II	IPR	TE-II	HT			FEM	HT	LIBRARY
THU	IPR	CADMATL/AECSL					TE-II	HT	HT
FRI	IPR	IPR	FEM	NPTEL/INT			FEM	DMM-II	COUN/ SEMINAR
SAT	DMM-II	TE-II	FEM	DMM-II			HTL/AECSL		
S.NO	SUB CODE	NAME OF THE SUBJECT		SUB. ABBV.	NAME OF THE FACULTY				
1	ME601PC	THERMAL ENGINEERING –II		TE-II	B NAGESWAR				
2	ME602PC	DESIGN OF MACHINE MEMBERS-II		DMM-II	M SONACHALAM				
3	ME603PC	HEAT TRANSFER		HT	Dr. S MURALI				
4	115EA	INTELLECTUAL PROPERTY RIGHTS		IPR	D SANTHOSH KUMAR				
5	ME611PE	FINITE ELEMENT METHODS		FEM	G K SHANMUKH DEV				
6	ME604PC	HEAT TRANSFER LAB		HTL	B NAGESWAR				
7	ME605PC	CADD AND MATLAB		CADD&MATL	P PRAVEEN KUMAR REDDY				
8	EN606HS	ADVANCED ENGLISH COMMUNICATION SKILLS LAB		AECSL	A YELLAIAH				
		NPTEL/INTERNET		NPTEL/INT	T SHAHINSHA				
		SPORTS		SPT	K.DEVI SINGH				
		LIBRARY		LIB	M.ANIL				
		COUNSELING/SEMINAR		COUN/SEMINAR	G.BHAVANI				
CLASS TEACHER: M SONACHALAM									

*M. Sonachalam*  
HOD-MECH

*K. Srinivas*  
PRINCIPAL



## DEPARTMENT OF MECHANICAL ENGINEERING

### \*MC510: INTELLECTUAL PROPERTY RIGHTS

III Year B.Tech.MECH II-Sem

L T P C  
3 0 0 0

#### UNIT – I

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

#### UNIT – II

Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes.

#### UNIT – III

Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law.

Law of patents: Foundation of patent law, patent searching process, ownership rights and transfer

#### UNIT – IV

Trade Secrets: Trade secrete law, determination of trade secrete status, liability for misappropriations of trade secrets, protection for submission, trade secrete litigation.

Unfair competition: Misappropriation right of publicity, false advertising.

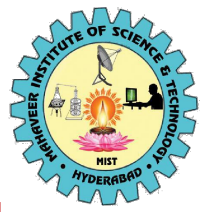
#### UNIT – V

New development of intellectual property: new developments in trade mark law; copy right law, patent law, intellectual property audits.

International overview on intellectual property, international – trade mark law, copy right law, international patent law, and international development in trade secrets law.

#### TEXT & REFERENCE BOOKS:

1. Intellectual property right, Deborah. E. Bouchoux, Cengage learning.
2. Intellectual property right – Unleashing the knowledge economy, prabuddha ganguli, Tata McGraw Hill Publishing company ltd



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CLASS TIME TABLE**

Academic Year : 2018-2019

Year:III

SEM: II

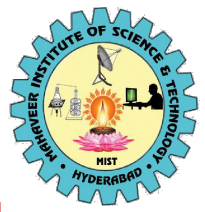
Section: B

W.E.F: 24-12-20

Day/Time	9.30 - 10.20	10.20 11.10	11.10 -12.00	12.00 -12.50	LUNCH 12.50 - 1.40	01.40- 02.30	02.30- 03.20	03.20-04.10	
MON	IPR	TE-II	FEM	FEM			HT		SPORTS
TUE	TE-II	HTL/CADMATL					DMM-II	DMM-II	IPR
WED	DMM-II	IPR	TE-II	HT			FEM	HT	LIBRARY
THU	IPR	CADMATL/AECSL					TE-II	HT	HT
FRI	IPR	IPR	FEM	NPTEL/INT			FEM	DMM-II	COUN/ SEMINAR
SAT	DMM-II	TE-II	FEM	DMM-II			HTL/AECSL		
S.NO	SUB CODE	NAME OF THE SUBJECT		SUB. ABBV.	NAME OF THE FACULTY				
1	ME601PC	THERMAL ENGINEERING –II		TE-II	P.HARI				
2	ME602PC	DESIGN OF MACHINE MEMBERS-II		DMM-II	T SHAHINSHA				
3	ME603PC	HEAT TRANSFER		HT	G.BHAVANI				
4	115EA	INTELLECTUAL PROPERTY RIGHTS		IPR	M.ANIL				
5	ME611PE	FINITE ELEMENT METHODS		FEM	K.DEVI SINGH				
6	ME604PC	HEAT TRANSFER LAB		HTL	G.BHAVANI				
7	ME605PC	CADD AND MATLAB		CADD&MATL	P PRAVEEN KUMAR REDDY				
8	EN606HS	ADVANCED ENGLISH COMMUNICATION SKILLS LAB		AECSL	A YELLAIAH				
		NPTEL/INTERNET		NPTEL/INT	T SHAHINSHA				
		SPORTS		SPT	K.DEVI SINGH				
		LIBRARY		LIB	M.ANIL				
		COUNSELING/SEMINAR		COUN/SEMINAR	G.BHAVANI				
CLASS TEACHER: D SANTHOSH KUMAR									

*D. Santhosh Kumar*  
HOD-MECH

*K. Sankar*  
PRINCIPAL



## DEPARTMENT OF MECHANICAL ENGINEERING

**\*MC510: INTELLECTUAL PROPERTY RIGHTS**  
**III Year B.Tech. MECH II-Sem**

**L T P C**  
**3 0 0 0**

### **UNIT – I**

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

### **UNIT – II**

Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes.

### **UNIT – III**

Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law.

Law of patents: Foundation of patent law, patent searching process, ownership rights and transfer

### **UNIT – IV**

Trade Secrets: Trade secrete law, determination of trade secrete status, liability for misappropriations of trade secrets, protection for submission, trade secrete litigation.

Unfair competition: Misappropriation right of publicity, false advertising.

### **UNIT – V**

New development of intellectual property: new developments in trade mark law; copy right law, patent law, intellectual property audits.

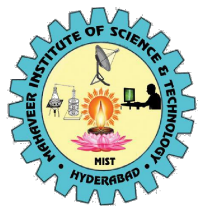
International overview on intellectual property, international – trade mark law, copy right law, international patent law, and international development in trade secrets law.

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## DEPARTMENT OF MECHANICAL ENGINEERING

Subject related to Sensitization of students & employees viz: Gender Sensitization , Human Values , Intellectual Property Rights & Constitution of India Prescribed by JNTUH.





## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2019-2020

Year: II

SEM: I

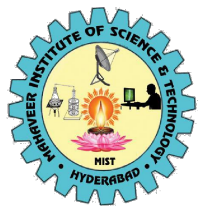
Section: A

W.E.F: 15-07-2019

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MON	PT	TD	TD	LIBRARY		P & S	MOS	MOS
TUE	CI	MOS	MOS	P & S		TD	TD	COUN/ SEMINAR
WED	MMS	PT	P & S	PT		MMS&MOS / PT LAB		
THU	MOS	P & S	PT	MOS		TD	TD	MMS
FRI	MMS	PT	P & S	MMS		NPTEL/INT	P&S	MOS
SAT	CI	MDP / MMS&MOS LAB				MMS	MMS	SPORTS
S.NO.	SUB CODE	COURSE NAME		SUB. ABBV.	NAME OF THE FACULTY			
1	MA301BS	PROBABILITY AND STATISTICSS & COMPLEX VARIABLES		PS&CV	A S LATHA			
2	ME302PC	MECHANICS OF SOLIDS		MOS	M SONACHALAM			
3	ME303PC	MATERIAL SCIENCE AND METALLURGY		MSM	S SUDHAKARA			
4	ME304PC	PRODUCTION TECHNOLOGY		PT	Dr. B NAGESWAR RAO			
5	ME305PC	THERMODYNAMICS		TD	Dr. S MURALI			
6	ME306PC	PRODUCTION TECHNOLOGY LAB		PTL	M RAMADAS			
7	ME307PC	MACHINE DRAWING PRACTICE		MDP	MD SAJJAD			
8	ME308PC	MATERIAL SCIENCE AND METALLURGY LAB		MS&ML	S SUDHAKARA			
9	ME308PC	MECHANICS OF SOLIDS LAB		MOSL	M SONACHALAM			
10	MC309	CONSTITUTION OF INDIA		COI	M RAMADAS			
11		NPTEL/INTERNET		NPTEL/INT	K.DEVI SINGH			
12		SPORTS		SPT	T SHAHINSHA			
13		LIBRARY		LIB	G.BHAVANI			
14		COUNSELLING/SEMINAR		COUN/SEMINAR	M.ANIL			
CLASS TEACHER: M SONACHALAM								

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## DEPARTMENT OF MECHANICAL ENGINEERING

**COMMON TO ALL BRANCHES \*MC409/\*MC309: CONSTITUTION OF INDIA**  
**B.TECH II Year II Sem.**

**L T P C**  
**3 0 0 0**

The Constitution of India is the supreme law of India. Parliament of India cannot make any law which violates the Fundamental Rights enumerated under the Part III of the Constitution. The Parliament of India has been empowered to amend the Constitution under Article 368, however, it cannot use this power to change the “basic structure” of the constitution, which has been ruled and explained by the Supreme Court of India in its historical judgments. The Constitution of India reflects the idea of “Constitutionalism” – a modern and progressive concept historically developed by the thinkers of “liberalism” – an ideology which has been recognized as one of the most popular political ideology and result of historical struggles against arbitrary use of sovereign power by state. The historic revolutions in France, England, America and particularly European Renaissance and Reformation movement have resulted into progressive legal reforms in the form of “constitutionalism” in many countries. The Constitution of India was made by borrowing models and principles from many countries including United Kingdom and America.

The Constitution of India is not only a legal document but it also reflects social, political and economic perspectives of the Indian Society. It reflects India’s legacy of “diversity”. It has been said that Indian constitution reflects ideals of its freedom movement; however, few critics have argued that it does not truly incorporate our own ancient legal heritage and cultural values. No law can be “static” and therefore the Constitution of India has also been amended more than one hundred times. These amendments reflect political, social and economic developments since the year 1950. The Indian judiciary and particularly the Supreme Court of India has played an historic role as the guardian of people. It has been protecting not only basic ideals of the Constitution but also strengthened the same through progressive interpretations of the text of the Constitution. The judicial activism of the Supreme Court of India and its historic contributions has been recognized throughout the world and it gradually made it “as one of the strongest court in the world”.

### **Course content**

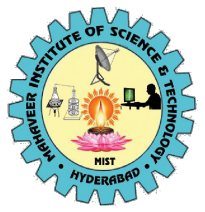
1. Meaning of the constitution law and constitutionalism
2. Historical perspective of the Constitution of India
3. Salient features and characteristics of the Constitution of India
4. Scheme of the fundamental rights
5. The scheme of the Fundamental Duties and its legal status
6. The Directive Principles of State Policy – Its importance and implementation
7. Federal structure and distribution of legislative and financial powers between the Union and the States
8. Parliamentary Form of Government in India – The constitution powers and status of the President of India
9. Amendment of the Constitutional Powers and Procedure
10. The historical perspectives of the constitutional amendments in India

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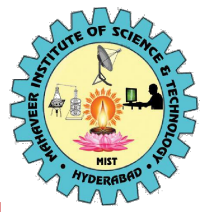


## DEPARTMENT OF MECHANICAL ENGINEERING

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11. Emergency Provisions: National Emergency, President Rule, Financial Emergency
12. Local Self Government – Constitutional Scheme in India
13. Scheme of the Fundamental Right to Equality
14. Scheme of the Fundamental Right to certain Freedom under Article 19
15. Scope of the Right to Life and Personal Liberty under Article 21





## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2019-2020

Year: III

SEM: I

Section: A

W.E.F: 15-07-2019

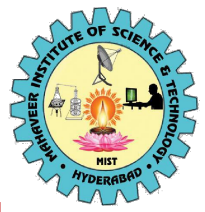
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TUE	NPTEL/INT	EM/ MT LAB				FM	NCPG	TE-I
WED	PE	TE/ MT LAB				TE-I	DOMM-I	LIBRARY
THU	FM	NCPG	DOMM-I	MMT		TE-I	MMT	SPORTS
FRI	MMT	NCPG	DOMM-I	FM		EM/ TE LAB		
SAT	PE	NCPG	TE-I	FM		DOMM-I	PE	COUN/ SEMINAR
S.NO	SUB CODE	COURSE NAME		SUB. ABBV.	NAME OF THE FACULTY			
1	ME501PC	DESIGN OF MACHINE MEMBERS - I		DOMM-I	G K SHANMUKH DEV			
2	ME502PC	THERMAL ENGINEERING		TE-I	B NAGESWAR			
3	ME503PC	METROLOGY & MACHINE TOOLS		MMT	D SANTHOSH KUMAR			
4	SM504MS	FUNDAMENTALS OF MANAGEMENT		FM	CH RAGHUNATH REDDY			
5	135CU	NON CONVENTIONAL POWER GENERATION		NCPG	P DURGA RAVI PRASAD			
6	ME505PC	THERMAL ENGINEERING LAB		TEL	B NAGESWAR			
7	ME506PC	MACHINE TOOLS LAB		MTL	D SANTHOSH KUMAR			
8	ME507PC	ENGINEERING METROLOGY LAB		EML	M RAMADAS			
9	MC500HS	PROFESSIONAL ETHICS		PE	MD SAJJAD			
10		NPTEL/INTERNET		NPTEL/INT	B BHARATH KUMAR			
11		SPORTS		SPT	FAIZ ALI			
12		LIBRARY		LIB	P.HARI			
13		COUNSELLING/SEMINAR		COUN/ SEMINAR	RANGA REDDY ANREDDY			
CLASS TEACHER: D SANTHOSH KUMAR								

*D. Santosh Kumar*

HOD

*K. S. Reddy*

PRINCIPAL



## DEPARTMENT OF MECHANICAL ENGINEERING

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
III Year B.Tech. MECH I Sem L T/P/D C

4 -/- 4

### HUMAN VALUES AND PROFESSIONAL ETHICS (Open Elective)

**Objectives :** This introductory course input is intended

- To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
- To facilitate the development of a Holistic perspective among students towards life, profession and happiness, based on a correct understanding of the Human reality and the rest of Existence. Such a holistic perspective forms the basis of Value based living in a natural way.
- To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually satisfying human behavior and mutually enriching interaction with Nature.

**Unit I:**

Course Introduction - Need, Basic Guidelines, Content and Process for Value Education: Understanding the need, basic guidelines, content and process for Value Education. Self Exploration—what is it? - its content and process; 'Natural Acceptance' and Experiential Validation- as the mechanism for self exploration. Continuous Happiness and Prosperity- A look at basic Human Aspirations. Right understanding, Relationship and Physical Facilities- the basic requirements for fulfillment of aspirations of every human being with their correct priority. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario. Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

**Unit II:**

Understanding Harmony in the Human Being - Harmony in Myself! : Understanding human being as a co-existence of the sentient 'I' and the material 'Body'. Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer). Understanding the characteristics and activities of 'I' and harmony in 'I'. Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail. Programs to ensure Sanyam and Swasthya.

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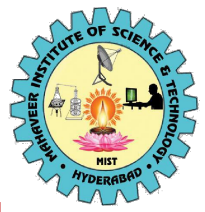
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Understanding Harmony in the Nature and Existence - Whole existence as Co-existence : Understanding the harmony in the Nature. Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature. Understanding Existence as Co-existence (Sahastitva) of mutually interacting units in all-pervasive space. Holistic perception of harmony at all levels of existence.

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## DEPARTMENT OF MECHANICAL ENGINEERING

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### Unit V:

Implications of the above Holistic Understanding of Harmony on Professional Ethics : Natural acceptance of human values. Definitiveness of Ethical Human Conduct. Basis for Humanistic Education, Humanistic Constitution

and Humanistic Universal Order. Competence in professional ethics:

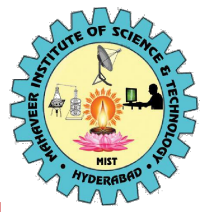
- a) Ability to utilize the professional competence for augmenting universal human order,
- b) Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems,
- c) Ability to identify and develop appropriate technologies and management patterns for above production systems.

Case studies of typical holistic technologies, management models and production systems. Strategy for transition from the present state to Universal Human Order:

- a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers
- b) At the level of society: as mutually enriching institutions and organizations

### TEXT BOOKS

1. R R Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.



## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2019-2020

Year: III

SEM: I

Section: B

W.E.F: 15-07-2019

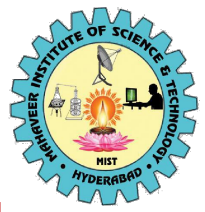
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WED	PE	TE/ MT LAB				TE-I	DOMM-I	LIBRARY
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5	EE511OE	NON CONVENTIONAL POWER GENERATION		NCPG	P.PRAVEEN KUMAR REDDY			
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11		SPORTS		SPT	FAIZ ALI			
12		LIBRARY		LIB	P.HARI			
13		COUNSELLING/SEMINAR		COUN/ SEMINAR	RANGA REDDY ANREDDY			
CLASS TEACHER: G.BHAVANI								

*G. Bhavani*

HOD

*K. Subudh*

PRINCIPAL



## DEPARTMENT OF MECHANICAL ENGINEERING

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
III Year B.Tech. MECH I Sem L T/P/D C

4 -/- 4

HUMAN VALUES AND PROFESSIONAL ETHICS  
(Open Elective)

**Objectives :** This introductory course input is intended

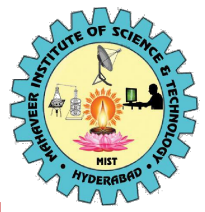
- To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
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## DEPARTMENT OF MECHANICAL ENGINEERING

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## DEPARTMENT OF MECHANICAL ENGINEERING

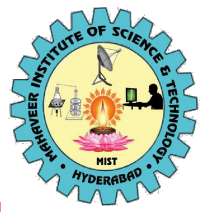
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engineers, technologists and managers

b) At the level of society: as mutually enriching institutions and organizations

TEXT BOOKS

1. R R Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.



## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2019-2020

Year:II

SEM: II

Section: A

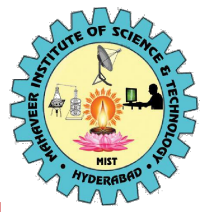
W.E.F: 09-12-2019

Day/Time	9.30 - 10.20	10.20 11.10	11.10 -12.00	12.00 -12.50	LUNCH 12.50 - 1.40	01.40- 02.30	02.30- 03.20	03.20-04.10
MON	BEEE	ICS	KOM	NPTEL/INT		ICS/FMHM		
TUE	FMHM	BEEE	TE-I	KOM		ICS	FMHM	SPORTS
WED	ICS	ICS/FMHM				KOM	BEEE	BEEE
THU	TE-I	FMHM	KOM	FMHM		GSL		
FRI	KOM	BEEE	FMHM	ICS		TE-I	KOM	LIBRARY
SAT	FMHM	TE-I	TE-I	COUN/ SEMINAR		BEE LAB		
S.NO.	SUB CODE	COURSE NAME		SUB. ABBV.	NAME OF THE FACULTY			
1	EE401ES	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING		BEE	T HIMABINDU			
2	ME402PC	KINEMATICS OF MACHINERY		KOM	Dr. B NAGESWAR RAO			
3	ME403PC	THERMAL ENGINEERING -I		TE-I	E KRISHNA DEEPAK			
4	ME404PC	FMHM FLUID MECHANICS AND HYDRAULIC MACHINES		FMHM	P DURGA RAVI PRASAD			
5	ME405PC	INSTRUMENTATION AND CONTROL SYSTEMS		ICS	MD SAZZAD			
6	EE409ES	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING		BEEEL	T HIMABINDU			
7	ME407PC	FLUID MECHANICS AND HYDRAULIC MACHINES LAB		FMHML	P DURGA RAVI PRASAD			
8	ME408PC	INSTRUMENTATION AND CONTROL		ICSL	MD SAZZAD			
9	*MC409	GENDER SENSITIZATION LAB		GSL	M SONACHALAM			
10		NPTEL/INTERNET		NPTEL/ INT	K.DEVI SINGH			
11		SPORTS		SPT	M.ANIL			
12		LIBRARY		LIB	E KRISHNA DEEPAK			
13		COUNSELLING/SEMINAR		COUN/SEMINAR	V KRISHNA REDDY			
<b>CLASS TEACHER: MD SAZZAD</b>								

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## DEPARTMENT OF MECHANICAL ENGINEERING

MC300HS: GENDER SENSITIZATION LAB

B.Tech. II Year I Sem.

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### Course Objectives:

- To develop students' sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
- To introduce students to information about some key biological aspects of genders.
- To expose the students to debates on the politics and economics of work.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

### Course Outcomes:

- Students will have developed a better understanding of important issues related to gender in contemporary India.
- Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature, and film.
- Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
- Students will acquire insight into the gendered division of labour and its relation to politics and economics.
- Men and women students and professionals will be better equipped to work and live together as equals.
- Students will develop a sense of appreciation of women in all walks of life.
- Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.

### UNIT-I

#### UNDERSTANDING GENDER

**Gender:** Why Should We Study It? (*Towards a World of Equals*: Unit -1)

**Socialization:** Making Women, Making Men (*Towards a World of Equals*: Unit -2)

Introduction. Preparing for Womanhood. Growing up Male. First lessons in Caste. Different Masculinities.

### UNIT-II

#### GENDER AND BIOLOGY

**Missing Women:** Sex Selection and Its Consequences (*Towards a World of Equals*: Unit -4) Declining Sex Ratio. Demographic Consequences.

**Gender Spectrum:** Beyond the Binary (*Towards a World of Equals*: Unit -10) Two or Many? Struggles with Discrimination.

### UNIT-III

#### GENDER AND LABOUR

**Housework:** the Invisible Labour (*Towards a World of Equals*: Unit -3)

“My Mother doesn't Work.” “Share the Load.”

**Women's Work:** Its Politics and Economics (*Towards a World of Equals*: Unit -7) Fact and Fiction. Unrecognized and Unaccounted work. Additional Reading: Wages and Conditions of Work.

### UNIT-IV

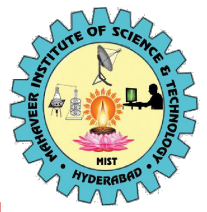
#### ISSUES OF VIOLENCE

**Sexual Harassment:** Say No! (*Towards a World of Equals*: Unit -6) Sexual Harassment, not Eve-teasing- Coping with Everyday Harassment- Further Reading: “Chupulu”.

Vysapuri, Bandlaguda Post:Keshavgi,  
Hyderabad-500 005, TELANGANA INDIA  
Tel: 040-64596979,8978380692,Fax: 040-24455003  
E-mail: [e3hod.mech@gmail.com](mailto:e3hod.mech@gmail.com),  
Website: [www.mist.ac.in](http://www.mist.ac.in),

**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY

Approved by AICTE, Affiliated to JNTUH,Hyd.



## DEPARTMENT OF MECHANICAL ENGINEERING

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**Domestic Violence:** Speaking Out (*Towards a World of Equals*: Unit -8) Is Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives.

Additional Reading: New Forums for Justice. Thinking about Sexual Violence (*Towards a World of Equals*: Unit -11)

Blaming the Victim-“I Fought for my Life....” - Additional Reading: The Caste Face of Violence.

### UNIT-V

#### GENDER: CO - EXISTENCE

**Just Relationships:** Being Together as Equals (*Towards a World of Equals*: Unit -12) Mary Kom and Onler. Love and Acid just do not Mix. Love Letters. Mothers and Fathers. Additional Reading: Rosa Parks-The Brave Heart.

#### TEXTBOOK

All the five Units in the Textbook, “*Towards a World of Equals: A Bilingual Textbook on Gender*” written by A. Suneetha, Uma Bhrugubanda, Duggirala Vasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu and published by **Telugu Akademi, Hyderabad**,Telangana State in the year **2015**.

**Note:** Since it is an Interdisciplinary Course, Resource Persons can be drawn from the fields of English Literature or Sociology or Political Science or any other qualified faculty who has expertise in this field from engineering departments.

#### REFERENCE BOOKS:

1. Menon, Nivedita. Seeing like a Feminist. New Delhi: Zubaan-Penguin Books, 2012
2. Abdulali Sohaila. “*I Fought For My Life...and Won.*” Available online at:  
<http://www.thealternative.in/lifestyle/i-fought-for-my-lifeand-won-sohail>



## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2019-2020

Year:III

SEM: II

Section: A

W.E.F: 09-12-2019

Day/Time	9.30 - 10.20	10.20 11.10	11.10 -12.00	12.00 -12.50	LUNCH 12.50 - 1.40	01.40- 02.30	02.30- 03.20	03.20-04.10
MON	IPR	FEM	TE-II	HT		HT	HT	SPORTS
TUE	FEM	DMM-II	IPR	FEM		DMM-II	COUN/ SEMINAR	TE-II
WED	TE-II	HT/AECS LAB				IPR	FEM	TE-II
THU	DMM-II	TE-II	HT	DMM-II		AECS LAB/CADD MAT LAB		
FRI	IPR	DMM-II	HT	FEM		TE-II	HT	LIBRARY
SAT	HT	HT/CADD MAT LAB				FEM	IPR	NPTEL/INT

S.NO.	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	ME601PC	THERMAL ENGINEERING –II	TE-II	B NAGESWAR
2	ME602PC	DESIGN OF MACHINE MEMBERS-II	DMM-II	M SONACHALAM
3	ME603PC	HEAT TRANSFER	HT	Dr.S MURALI
4	CE623OE	INTELLECTUAL PROPERTY RIGHTS	IPR	D SANTHOSH KUMAR
5	ME611PE	FINITE ELEMENT METHODS	FEM	B.VENKATESHWAR
6	ME604PC	HEAT TRANSFER LAB	HTL	P HARI
7	ME605PC	CADD AND MATLAB	CADD&MATL	P PRAVEEN KUMAR REDDY
8	EN606HS	ADVANCED ENGLISH COMMUNICATION SKILLS LAB	AECSL	A YELLAIAH
9		NPTEL/INTERNET	NPTEL/ INT	K.DEVI SINGH
10		SPORTS	SPT	SANNAPPA SUDHAKARA
11		LIBRARY	LIB	KRISHNAPPA GANESAN
12		COUNSELLING/SEMINAR	COUN/SEMINAR	V KRISHNA REDDY

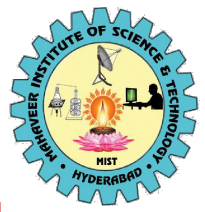
CLASS TEACHER: M SONACHALAM

*M Sonachalam*

HOD

*K. Suresh*

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## DEPARTMENT OF MECHANICAL ENGINEERING

\*MC510: INTELLECTUAL PROPERTY RIGHTS

III Year B.Tech. MECH II-Sem

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### UNIT – I

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

### UNIT – II

Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes.

### UNIT – III

Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law.

Law of patents: Foundation of patent law, patent searching process, ownership rights and transfer

### UNIT – IV

Trade Secrets: Trade secrete law, determination of trade secrete status, liability for misappropriations of trade secrets, protection for submission, trade secrete litigation.

Unfair competition: Misappropriation right of publicity, false advertising.

### UNIT – V

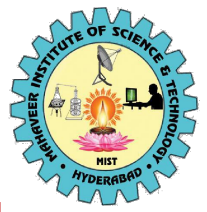
New development of intellectual property: new developments in trade mark law; copy right law, patent law, intellectual property audits.

International overview on intellectual property, international – trade mark law, copy right law, international patent law, and international development in trade secrets law.

### TEXT & REFERENCE BOOKS:

1. Intellectual property right, Deborah. E. Bouchoux, Cengage learning.
2. Intellectual property right – Unleashing the knowledge economy, prabuddha ganguli, Tata

McGraw Hill Publishing company ltd



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CLASS TIME TABLE**

Academic Year : 2019-2020

Year:III

SEM: II

Section: B

W.E.F: 09-12-2019

Day/Time	9.30 - 10.20	10.20 - 11.10	11.10 - 12.00	12.00 - 12.50	LUNCH 12.50 - 1.40	01.40- 02.30	02.30- 03.20	03.20-04.10
MON	TE-II	HT	IPR	FEM		HT/CADD MAT LAB		
TUE	DMM-II	HT	HT	TE-II		HT/AECS LAB		
WED	IPR	IPR	HT	HT		TE-II	IPR	IPR
THU	IPR	FEM	IPR	TE-II		FEM	IPR	LIBRARY
FRI	TE-II	TE-II	FEM	NPTEL/INT		DMM-II	TE-II	SPORTS
SAT	DMM-II	DMM-II	FEM	COUN/ SEMINAR		AECS LAB/CADD MAT LAB		

S.NO.	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	ME601PC	THERMAL ENGINEERING –II	TE-II	B NAGESWAR
2	ME602PC	DESIGN OF MACHINE MEMBERS-II	DMM-II	SONACHALAM
3	ME603PC	HEAT TRANSFER	HT	DR S MURALI
4	CE623OE	INTELLECTUAL PROPERTY RIGHTS	IPR	D SANTHOSH KUMAR
5	ME611PE	FINITE ELEMENT METHODS	FEM	GK SHANMUKH DEV
6	ME604PC	HEAT TRANSFER LAB	HTL	G.BHAVANI
7	ME605PC	CADD AND MATLAB	CADD&MATL	B BHARATH KUMAR
8	EN606HS	ADVANCED ENGLISH COMMUNICATION SKILLS LAB	AECSL	A YELLAIAH
9		NPTEL/Internet	NPTEL/ INT	K.DEVI SINGH
10		Sports	SPT	SANNAPPA SUDHAKARA
11		Library	LIB	KRISHNAPPA GANESAN
12		COUNSELLING/SEMINAR	COUN/SEMINAR	V KRISHNA REDDY

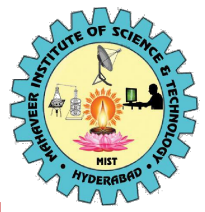
**CLASS TEACHER: D SANTHOSH KUMAR**

*D. Santosh Kumar*

**HOD**

*K. Suresh*

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## DEPARTMENT OF MECHANICAL ENGINEERING

\*MC510: INTELLECTUAL PROPERTY RIGHTS

III Year B.Tech.MECH II-Sem

L T P C  
3 0 0 0

### UNIT – I

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

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### UNIT – V

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## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2020-2021

Year: II

SEM: I

Section: A`

W.E.F: 24-08-2020

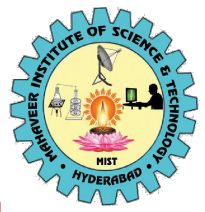
Day/Time	9.30 - 10.30	10.40 -11.40	11.50 -12.50	<b>L U N C H</b> 12.50 -1.40	02.00 - 03.00		
MON	MOS	MSM	TD		PT		
TUE	MOS	P & S	TD		MSM		
WED	MOS	P & S	MDP		PT		
THU	MOS	P & S	MSM		PT		
FRI	MOS	P & S	TD		MSM		
SAT	MDP	P & S	TD		PT		

S.NO.	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	MA301BS	PROBABILITY AND STATISTICSS & COMPLEX VARIABLES	PS&CV	A S LATHA
2	ME302PC	MECHANICS OF SOLIDS	MOS	M.SONACHALAM
3	ME303PC	MATERIAL SCIENCE AND METALLURGY	MSM	D. SANTHOSH KUMAR
4	ME304PC	PRODUCTION TECHNOLOGY	PT	P.PRAVEEN KUMAR REDDY
5	ME305PC	THERMODYNAMICS	TD	G. BHAVANI
6	ME306PC	PRODUCTION TECHNOLOGY LAB	PTL	P.PRAVEEN KUMAR REDDY
7	ME307PC	MACHINE DRAWING PRACTICE	MDP	SRAVAN KUMAR
8	ME308PC	MATERIAL SCIENCE AND METALLURGY LAB	MS&ML	D. SANTHOSH KUMAR
9	ME308PC	MECHANICS OF SOLIDS LAB	MOSL	M.SONACHALAM
10	MC309	CONSTITUTION OF INDIA	COI	E KRISHNA DEEPAK

**CLASS TEACHER :M.SONACHALAM**

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## DEPARTMENT OF MECHANICAL ENGINEERING

**COMMON TO ALL BRANCHES \*MC409/\*MC309: CONSTITUTION OF INDIA**  
**B.TECH II Year I Sem.**

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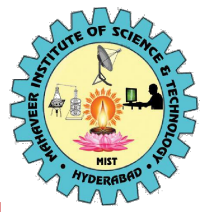
The Constitution of India is the supreme law of India. Parliament of India cannot make any law which violates the Fundamental Rights enumerated under the Part III of the Constitution. The Parliament of India has been empowered to amend the Constitution under Article 368, however, it cannot use this power to change the “basic structure” of the constitution, which has been ruled and explained by the Supreme Court of India in its historical judgments. The Constitution of India reflects the idea of “Constitutionalism” – a modern and progressive concept historically developed by the thinkers of “liberalism” – an ideology which has been recognized as one of the most popular political ideology and result of historical struggles against arbitrary use of sovereign power by state. The historic revolutions in France, England, America and particularly European Renaissance and Reformation movement have resulted into progressive legal reforms in the form of “constitutionalism” in many countries. The Constitution of India was made by borrowing models and principles from many countries including United Kingdom and America.

The Constitution of India is not only a legal document but it also reflects social, political and economic perspectives of the Indian Society. It reflects India’s legacy of “diversity”. It has been said that Indian constitution reflects ideals of its freedom movement; however, few critics have argued that it does not truly incorporate our own ancient legal heritage and cultural values. No law can be “static” and therefore the Constitution of India has also been amended more than one hundred times. These amendments reflect political, social and economic developments since the year 1950. The Indian judiciary and particularly the Supreme Court of India has played an historic role as the guardian of people. It has been protecting not only basic ideals of the Constitution but also strengthened the same through progressive interpretations of the text of the Constitution. The judicial activism of the Supreme Court of India and its historic contributions has been recognized throughout the world and it gradually made it “as one of the strongest court in the world”.

### **Course content**

1. Meaning of the constitution law and constitutionalism
2. Historical perspective of the Constitution of India

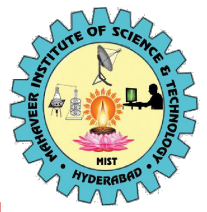




## DEPARTMENT OF MECHANICAL ENGINEERING

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3. Salient features and characteristics of the Constitution of India
4. Scheme of the fundamental rights
5. The scheme of the Fundamental Duties and its legal status
6. The Directive Principles of State Policy – Its importance and implementation
7. Federal structure and distribution of legislative and financial powers between the Union and the States
8. Parliamentary Form of Government in India – The constitution powers and status of the President of India
9. Amendment of the Constitutional Powers and Procedure
10. The historical perspectives of the constitutional amendments in India
11. Emergency Provisions: National Emergency, President Rule, Financial Emergency
12. Local Self Government – Constitutional Scheme in India
13. Scheme of the Fundamental Right to Equality
14. Scheme of the Fundamental Right to certain Freedom under Article 19
15. Scope of the Right to Life and Personal Liberty under Article 21



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CLASS TIME TABLE**

Academic Year : 2020-2021

Year: III

SEM: I

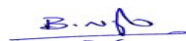
Section: A`

W.E.F: 24-08-2020

Day/Time	9.30 - 10.30	10.40 - 11.40	11.50 - 12.50		02.00 - 03.00		
MON	DOM	TE-II	MMT	<b>LUNCH</b> 12.50 - 1.40	BEFA		
TUE	DOM	TE-II	MMT		BEFA		
WED	DOM	DOMM-I	OR		BEFA		
THU	DOM	DOMM-I	OR		BEFA		
FRI	TE-II	DOMM-I	OR		MMT		
SAT	TE-II	DOMM-I	OR		MMT		

S.NO.	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	ME501PC	DYNAMICS OF MACHINERY	DOM	DR. G. SRIKANTH REDDY
2	ME502PC	DESIGN OF MACHINE MEMBERS-I	DMM-I	G K SHANMUKH DEV
3	ME503PC	METROLOGY & MACHINE TOOLS	MMT	SRAVAN KUMAR
4	SM504MS	BUSINESS ECONOMICS & FINANCIAL ANALYSIS	BE&FA	CH RAGHUNATH REDDY
5	ME505PC	THERMAL ENGINEERING-II	TE-II	B NAGESWAR
6	ME506PC	OPERATIONS RESEARCH	OR	B. BHARATH KUMAR
7	ME507PC	THERMAL ENGINEERING LAB	TE LAB	B NAGESWAR
8	ME508PC	METROLOGY & MACHINE TOOLS LAB	MMT LAB	SRAVAN KUMAR
9	ME509PC	KINEMATICS & DYNAMICS LAB	KOM LAB	DR. G. SRIKANTH REDDY
10	*MC510	INTELLECTUAL PROPERTY RIGHTS	IPR	FAIZ ALI

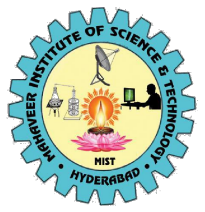
CLASS TEACHER :SRAVAN KUMAR



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## DEPARTMENT OF MECHANICAL ENGINEERING

\*MC510: INTELLECTUAL PROPERTY RIGHTS  
III Year B.Tech. MECH I-Sem

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### UNIT – I

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

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Unfair competition: Misappropriation right of publicity, false advertising.

### UNIT – V

New development of intellectual property: new developments in trade mark law; copy right law, patent law, intellectual property audits.  
International overview on intellectual property, international – trade mark law, copy right law, international patent law, and international development in trade secrets law.

### TEXT & REFERENCE BOOKS:

1. Intellectual property right, Deborah. E. Bouchoux, Cengage learning.
2. Intellectual property right – Unleashing the knowledge economy, prabuddha ganguli, Tata McGraw Hill Publishing company ltd



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CLASS TIME TABLE**

Academic Year : 2020-2021

Year:II

SEM: II

Section: A

W.E.F: 25-01-2021

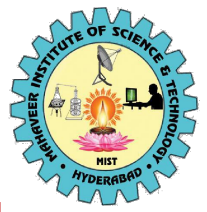
Day/Time	10.00 - 10.50	11.00 -11.50	12.50 -12.50	LUNCH 12.50 - 1.40	02.00 - 02.50		
MON	ICS	BEEE	TE-I		FMHM		
TUE	BEEE	ICS	TE-I		KOM		
WED	TE-I	BEEE	KOM		FMHM		
THU	FMHM	ICS	KOM		TE-I		
FRI	KOM	BEEE	TE-I		FMHM		
SAT	KOM	FMHM	BEEE		ICS		

S.NO	SUB CODE	COURSE NAME	SUB. ABBV.	NAME OF THE FACULTY
1	EE401ES	Basic Electrical and Electronics Engineering	BEEE	AYESHA TASKEEN
2	ME402PC	Kinematics of Machinery	KOM	T. SHAHINSHA
3	ME403PC	Thermal Engineering -I	TE-1	B. NAGESWAR
4	ME404PC	FMHM Fluid Mechanics and Hydraulic Machines	FMHM	P. DURGA RAVI PRASAD
5	ME405PC	Instrumentation and Control Systems	ICS	E. KRISHNA DEEPAK
6	EE409ES	Basic Electrical and Electronics Engineering Lab	BEEE LAB	AYESHA TASKEEN
7	ME407PC	Fluid Mechanics and Hydraulic Machines Lab	FMHM LAB	P. DURGA RAVI PRASAD
8	ME408PC	Instrumentation and Control Systems Lab	ICS LAB	E. KRISHNA DEEPAK
9	*MC409	Gender Sensitization Lab	GS LAB	M ANIL

**CLASS TEACHER: E.KRISHNA DEEPAK**

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

MC300HS: GENDER SENSITIZATION LAB

B.Tech. II Year II Sem.

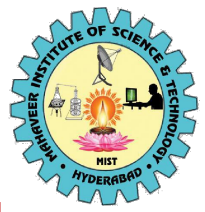
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### Course Objectives:

- To develop students' sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
- To introduce students to information about some key biological aspects of genders.
- To expose the students to debates on the politics and economics of work.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

### Course Outcomes:

- Students will have developed a better understanding of important issues related to gender in contemporary India.
- Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature, and film.
- Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
- Students will acquire insight into the gendered division of labour and its relation to politics and economics.
- Men and women students and professionals will be better equipped to work and live together as equals.
- Students will develop a sense of appreciation of women in all walks of life.
- Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.



## DEPARTMENT OF MECHANICAL ENGINEERING

### UNIT-I

#### UNDERSTANDING GENDER

**Gender:** Why Should We Study It? (*Towards a World of Equals*: Unit -1)

**Socialization:** Making Women, Making Men (*Towards a World of Equals*: Unit -2)

Introduction. Preparing for Womanhood. Growing up Male. First lessons in Caste. Different Masculinities.

### UNIT-II

#### GENDER AND BIOLOGY

**Missing Women:** Sex Selection and Its Consequences (*Towards a World of Equals*: Unit -4)

Declining Sex Ratio. Demographic Consequences.

**Gender Spectrum:** Beyond the Binary (*Towards a World of Equals*: Unit -10)

Two or Many? Struggles with Discrimination.

### UNIT-III

#### GENDER AND LABOUR

**Housework:** the Invisible Labour (*Towards a World of Equals*: Unit -3)

“My Mother doesn’t Work.” “Share the Load.”

**Women’s Work:** Its Politics and Economics (*Towards a World of Equals*: Unit -7)

Fact and Fiction. Unrecognized and Unaccounted work. Additional Reading: Wages and Conditions of Work.

### UNIT-IV

#### ISSUES OF VIOLENCE

**Sexual Harassment:** Say No! (*Towards a World of Equals*: Unit -6)

Sexual Harassment, not Eve-teasing- Coping with Everyday Harassment- Further Reading: “Chupulu”.

**Domestic Violence:** Speaking Out (*Towards a World of Equals*: Unit -8)

Is Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives. Additional Reading: New Forums for Justice.

Thinking about Sexual Violence (*Towards a World of Equals*: Unit -11)

Blaming the Victim-“I Fought for my Life...” - Additional Reading: The Caste Face of Violence.

### UNIT-V

#### GENDER: CO - EXISTENCE

**Just Relationships:** Being Together as Equals (*Towards a World of Equals*: Unit -12)

Mary Kom and Onler. Love and Acid just do not Mix. Love Letters. Mothers and Fathers.

Additional Reading: Rosa Parks-The Brave Heart.

#### TEXTBOOK

All the five Units in the Textbook, “*Towards a World of Equals: A Bilingual Textbook on*

Vysapuri, Bandlaguda Post:Keshavgi,  
Hyderabad-500 005, TELANGANA INDIA  
Tel: 040-64596979,8978380692,Fax: 040-24455003  
E-mail: [e3hod.mech@gmail.com](mailto:e3hod.mech@gmail.com),  
Website: [www.mist.ac.in](http://www.mist.ac.in),

# MAHAVEER

## INSTITUTE OF SCIENCE & TECHNOLOGY

Approved by AICTE, Affiliated to JNTUH,Hyd.



## DEPARTMENT OF MECHANICAL ENGINEERING

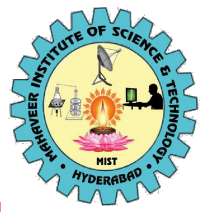
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*Gender*” written by A. Suneetha, Uma Bhrugubanda, Duggirala Vasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu and published by **Telugu Akademi, Hyderabad**,Telangana State in the year **2015**.

**Note:** Since it is an Interdisciplinary Course, Resource Persons can be drawn from the fields of English Literature or Sociology or Political Science or any other qualified faculty who has expertise in this field from engineering departments.

### REFERENCE BOOKS:

1. Menon, Nivedita. Seeing like a Feminist. New Delhi: Zubaan-Penguin Books, 2012
2. Abdulali Sohaila. *“I Fought For My Life...and Won.”* Available online at:  
<http://www.thealternative.in/lifestyle/i-fought-for-my-lifeand-won-sohail>



## DEPARTMENT OF MECHANICAL ENGINEERING

### CLASS TIME TABLE

Academic Year : 2021-2022

Year: II

SEM: I

Section: A

W.E.F: 18-10-2021

Day/Time	9.30 - 10.20	10.20 11.10	11.10 - 12.00	12.00 - 12.50	LUNCH 12.50 - 1.40	01.40- 02.30	02.30- 03.20	03.20- 04.10
MON	MOS	MSM	PS&CV	PS&CV		PT	TD	COUN/ SEMINAR
TUE	MSM	PT	TD	MOS		MMS & MOS LAB		
WED	MOS	PS&CV	TD	MSM		TD	PT	SPORTS
THU	PS&CV	PT	MOS	TD		PRODUCTION TECHNOLOGY LAB		
FRI	MSM	PS&CV	MOS	TD		MACHINE DRAWING PRACTICE		
SAT	NPTEL/INT	MOS	PT	CI		MSM	PS&CV	LIBRARY

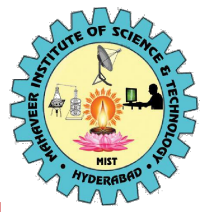
S.NO.	SUB CODE	NAME OF THE SUBJECT	SUB. ABBV.	NAME OF THE FACULTY
1	MA301BS	PROBABILITY AND STATISTICS & COMPLEX VARIABLES	PS&CV 6	RANA FATHIMA
2	ME302PC	MECHANICS OF SOLIDS	MOS 5	K.DEVI SINGH
3	ME303PC	MATERIAL SCIENCE AND METALLURGY	MSM 5	B. SHRAVAN KUMAR
4	ME304PC	PRODUCTION TECHNOLOGY	PT 5	Dr. B. NAGESWARA RAO
5	ME305PC	THERMODYNAMICS	TD 6	E. KRISHNA DEEPAK
6	ME306PC	PRODUCTION TECHNOLOGY LAB	PTL 3	SUMAN
7	ME307PC	MACHINE DRAWING PRACTICE	MDP 3	M.ANIL
8	ME308PC	MATERIAL SCIENCE AND MECHANICS OF SOLIDS LAB	MS&MOS LAB 3	B. SHRAVAN KUMAR
9	*MC309	CONSTITUTION OF INDIA	COI 2	RAMESH BABU
10		NPTEL/INTERNET	NPTEL/INT	K.DEVI SINGH
11		SPORTS	SPT	M.ANIL
12		LIBRARY	LIB	E. KRISHNA DEEPAK
13		COUNSELING/SEMINAR	COUN/SEMINAR	G.BHAVANI

CLASS TEACHER: E. KRISHNA DEEPAK

  
HOD-MECH

  
PRINCIPAL





## DEPARTMENT OF MECHANICAL ENGINEERING

COMMON TO ALL BRANCHES \*MC409/\*MC309: CONSTITUTION OF INDIA  
B.TECH II Year I Sem.

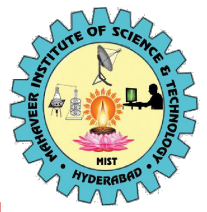
L T P C  
3 0 0 0

The Constitution of India is the supreme law of India. Parliament of India cannot make any law which violates the Fundamental Rights enumerated under the Part III of the Constitution. The Parliament of India has been empowered to amend the Constitution under Article 368, however, it cannot use this power to change the “basic structure” of the constitution, which has been ruled and explained by the Supreme Court of India in its historical judgments. The Constitution of India reflects the idea of “Constitutionalism” – a modern and progressive concept historically developed by the thinkers of “liberalism” – an ideology which has been recognized as one of the most popular political ideology and result of historical struggles against arbitrary use of sovereign power by state. The historic revolutions in France, England, America and particularly European Renaissance and Reformation movement have resulted into progressive legal reforms in the form of “constitutionalism” in many countries.

The Constitution of India is not only a legal document but it also reflects social, political and economic perspectives of the Indian Society. It reflects India’s legacy of “diversity”. It has been said that Indian constitution reflects ideals of its freedom movement; however, few critics have argued that it does not truly incorporate our own ancient legal heritage and cultural values. No law can be “static” and therefore the Constitution of India has also been amended more than one hundred times. These amendments reflect political, social and economic developments since the year 1950. The Indian judiciary and particularly the Supreme Court of India has played an historic role as the guardian of people. It has been protecting not only basic ideals of the Constitution but also strengthened the same through progressive interpretations of the text of the Constitution. The judicial activism of the Supreme Court of India and its historic contributions has been recognized throughout the world and it gradually made it “as one of the strongest court in the world”.

### Course content

1. Meaning of the constitution law and constitutionalism
2. Historical perspective of the Constitution of India
3. Salient features and characteristics of the Constitution of India
4. Scheme of the fundamental rights
5. The scheme of the Fundamental Duties and its legal status
6. The Directive Principles of State Policy – Its importance and implementation
7. Federal structure and distribution of legislative and financial powers between the Union and the States
8. Parliamentary Form of Government in India – The constitution powers and status of the President of India
9. Amendment of the Constitutional Powers and Procedure
10. The historical perspectives of the constitutional amendments in India
11. Emergency Provisions: National Emergency, President Rule, Financial Emergency
12. Local Self Government – Constitutional Scheme in India
13. Scheme of the Fundamental Right to Equality
14. Scheme of the Fundamental Right to certain Freedom under Article 19
15. Scope of the Right to Life and Personal Liberty under Article 21



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CLASS TIME TABLE**

Academic Year : 2021-2022

Year: III

SEM: I

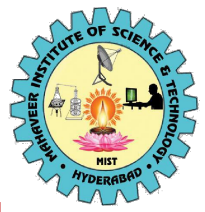
Section: A`

W.E.F: 06-09-2021

Day/Time	9.30 - 10.20	10.20 - 11.10	11.10 - 12.00	12.00 - 12.50	LUNC H 12.50 -	01.40- 02.30	02.30- 03.20	03.20- 04.10
MON	DOM	TE-II	DOMM-I	OR		MACHINETOOLS & METROLOGY LAB		
TUE	DOM	DOMM-I	BEFA	OR		TE LAB/ KOM-DOM LAB		
WED	MMT	DOM	MMT	SPORTS		TE-II	DOMM-I	OR
THU	TE-II	TE-II	BEFA	DOMM-I		OR	MMT	LIBRARY
FRI	TE-II	METROLOGY & MACHINE TOOLS LAB				DOMM-I	DOM	COUN/ SEMINAR
SAT	OR	MMT	BEFA	NPTEL/ INT		KOM-DOM LAB/ TE LAB		
S.NO.	SUB CODE	NAME OF THE SUBJECT		SUB. ABBV.	NAME OF THE FACULTY			
1	ME501PC	DYNAMICS OF MACHINERY		DOM	Dr.G. SRIKANTH REDDY			
2	ME502PC	DESIGN OF MACHINE MEMBERS-I		DMM-I	G. K. SHANMUKH DEV			
3	ME503PC	METROLOGY & MACHINE TOOLS		MM T	D.SANTHOSHKUMAR			
4	SM504MS	BUSINESS ECONOMICS & FINANCIAL ANALYSIS		BE&FA	B. VENKATESWAR REDDY			
5	ME505PC	THERMAL ENGINEERING-II		TE-II	B. NAGESWAR			
6	ME506PC	OPERATIONS RESEARCH		OR	RAMESH BABU			
7	ME507PC	THERMAL ENGINEERING LAB		TE LAB	B. NAGESWAR			
8	ME508PC	METROLOGY & MACHINE TOOLS LAB		MMT LAB	D. SANTHOSH KUMAR			
9	ME509PC	KINEMATICS & DYNAMICS LAB		KOM LAB	Dr. G. SRIKANTH REDDY			
10	*MC510	INTELLECTUAL PROPERTY RIGHTS		IPR	P. DURGA RAVI PRASAD			
11		NPTEL/INTERNET		NPTEL/INT	K.DEVI SINGH			
12		SPORTS		SPT	M.ANIL			
13		COUNSELING/SEMINAR		COUN/ SEMINAR	G.BHAVANI			
<b>CLASS TEACHER: D.SANTHOSHKUMAR</b>								

  
HOD-MECH

  
PRINCIPAL



## DEPARTMENT OF MECHANICAL ENGINEERING

\*MC510: INTELLECTUAL PROPERTY RIGHTS

III Year B.Tech. MECH I-Sem

L T P C  
3 0 0 0

### UNIT – I

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

### UNIT – II

Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes.

### UNIT – III

Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law.

Law of patents: Foundation of patent law, patent searching process, ownership rights and transfer

### UNIT – IV

Trade Secrets: Trade secrete law, determination of trade secrete status, liability for misappropriations

of trade secrets, protection for submission, trade secrete litigation.

Unfair competition: Misappropriation right of publicity, false advertising.

### UNIT – V

New development of intellectual property: new developments in trade mark law; copy right law, patent

law, intellectual property audits.

International overview on intellectual property, international – trade mark law, copy right law,

international patent law, and international development in trade secrets law.

### TEXT & REFERENCE BOOKS:

1. Intellectual property right, Deborah. E. Bouchoux, Cengage learning.
2. Intellectual property right – Unleashing the knowledge economy, prabuddha ganguli, Tata McGraw Hill Publishing company ltd