	HINDU COLLEGI	E OF ENGINEERING, SONEPAT	- Salera
	L	ECTURE PLAN	
	ER/CLASS	2ND SE	SSION JAN JUNE 2018
	<b>CODE</b> : ME-101-		
SESSION	AL MARKS: 25	THEORY MARKS: 75 DURA	TION OF EXAMS: 3 HOURS
NAME OI	TEACHER :	ANKUR KAUSHIK DEPAI	RTMENT : MECHANICAL
OBJECTI	VES OF CONCER	NED SUBJECT:	
TO UNDEI INFLUEN(		E BEHAVIOUR AND PROPERTY OF MATERIAL A	AS THEY ARE ALTERED AND
OUTCOM	IE OF CONCERNE	ED SUBJECT:	
ABILITY	TO MEASURE MP V	ARIABLE IN A WORKSHOP AND PROCESS	
		1	1
Lecture No.	Lecture Dates	TOPICS	TEXT/REFERENCE BOOKS
1.	15/01/2018	INTRODUCTION TO MANUFACTURING PROCESS AND THEIR CLASSIFICATION	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
2.	16/01/2018	AUTOMATION IN MANUFACTURING, INDUSTRIAL SAFETY	
3.	23/01/2018	INTRODUCTION ,TYPES OF ACCIDENTS, CAUSES AND COMMAN SOURCES OF ACCIDENTS	WORK SHOP TECHNOLOGY
4.	24/01/2018/	METHODS OF SAFETY	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
5.	25/01/2018	ELECTRIC SAFETY MEASURES, FIRST AID	WORK SHOP TECHNOLOGY
6.	29/01/2018/	PLANT LAYOUT, PRINCIPAL OF PLANT LAYOUT, OBJECTIVE OF PLANT LAYOUT	$1 \sqrt{11} $
7.	30/01//2018	TYPES OF PLANT AND SHOP LAYOUT AND THEIR ADVANTAGES	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY

8.	31/01/2018	INTRODUCTION TO WELDING AND ITS CLASSIFICATION	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
9.	01/02/2018	GAS WELDING: OXY ACETYLENE WELDING	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
10	05/02/2018	RESISTANCE WELDING: SPOT &SEAM	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
11.	06/02/2018	ARC WELDING : TIG &MIG	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
12.	07/02/2018	WELDING DEFECTS AND REMEDIES	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
13.	08/02/2018	COMPARISONS AMONG WELDING, BRAGING. SOLDERING	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
14.	12/02/2018	SURFACE FINISHING PROCESS	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
15.	13/02/2018	INTRODUCTION TO HEAT TREATMENT PROCESS	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
16.	15/02/2018	ESTIMATING MANUFACTURING COST	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
17.	19/02/2018	SHEETMETALOPERATION:MEASURING,LAYOUT,MARKING,SHEARING,PUNCHING,BLANKING	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
18.	20/02/2018	PIERCING, FORMING, BENDIND AND JOINING WITH ADVANTAGES AND DISADVANTAGES	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
19.	21/02/2018	HOT WORKING & COLD WORKING PROCESS, ADVANTAGES & DISADVANTAGES	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
20.	26/02/2018	PRINCIPAL OF HOT WORKING PROCESS : FORGING	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND CHAUDHARY
21.	27/02/2018	ROLLING	WORK SHOP TECHNOLOGY VOL1 & VOL 2

22.	01/03/2018	EXTRUTION & WIRE DRAWING	WORK SHOP TECHNOLOGY
			VOL1 & VOL 2
		INTRODUCTION TO MACHINE TOOL:	WORK SHOP TECHNOLOGY
23.	05/03/2018	LATHE MACHINE, DRILLING MACHINE	VOL1 & VOL 2-HAZRE AND
		SHAPER & PLANER, MILLING MACHINE	CHAUDHARY
		INTRODUCTION TO NOMENCLATURE OF	WORK SHOP TECHNOLOGY
24.	06/03/2018	SINGLE POINT CUTTING TOOL	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
25.	12/03/2018	MECHANICS OF CHIP FORMATION AND ITS	WORK SHOP TECHNOLOGY
	12,00,2010	TYPES	VOL1 & VOL 2-HAZRE AND
		LISE OF COOLENT IN MACHINE AND TOOL	CHAUDHARY WORK SHOP TECHNOLOGY
26.	13/03/2018	USE OF COOLENT IN MACHINE AND TOOL WEAR	VOL1 & VOL 2-HAZRE AND
		WLAR	CHAUDHARY
27	1.1/02/2010/	/GENERAL PROPERTIES & APPLICATION OF	WORK SHOP TECHNOLOGY
27	14/03/2018/	ENGG. MATERIAL	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
28	15/03/2018	MILD STEEL, MEDIUM CARBON STEEL, HIGH	WORK SHOP TECHNOLOGY
-0	10,00,2010	CARBOMN STEEL, HIGH SPEED STEEL	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY WORK SHOP TECHNOLOGY
29	19/03/2018	CAST IRON	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
• •			WORK SHOP TECHNOLOGY
30	20/03/2018	NON FERROUS MATERIAL	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
31	21/03/2018	SHOP TOOL & SUPER ALLOY MATERIAL	WORK SHOP TECHNOLOGY
			VOL1 & VOL 2-HAZRE AND
		INTRODUCTION TO CASTING PROCESS AND	CHAUDHARY WORK SHOP TECHNOLOGY
32	22/03/2018	INTRODUCTION TO CASTING PROCESS AND ITS STEP	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
22	26/02/2010		WORK SHOP TECHNOLOGY
33	26/03/2018	PATTERN & ITS TYPES	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
	27/03/2018	PATTERN ALLOWANCE	WORK SHOP TECHNOLOGY
			VOL1 & VOL 2-HAZRE AND CHAUDHARY
			WORK SHOP TECHNOLOGY
34	28/03/2018	RUNNER, RISER , GATES	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
25	02/04/2010	MOLDING SAND & ITS COMPOSITION, SAND	WORK SHOP TECHNOLOGY
35	02/04/2018	PREPARATION	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
36	03/04/2018	MOLDIND METHOD, CORE SAND & CORE	WORK SHOP TECHNOLOGY
		MAKING	VOL1 & VOL 2-HAZRE AND CHAUDHARY
			WORK SHOP TECHNOLOGY
37	04/0/4/2018	CORE & MOLD ASSEMBLY	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
20	05/02/2010		WORK SHOP TECHNOLOGY
38	05/03/2018	CUPOLA FURNACE	VOL1 & VOL 2-HAZRE AND
			CHAUDHARY

39	09/04/2018	POURING & FETTLING	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
40	10/04/2018	CASTING DEFECTS	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND
			CHAUDHARY
41	11/04/2018	TESTING OF CASTING	WORK SHOP TECHNOLOGY VOL1 & VOL 2-HAZRE AND
			CHAUDHARY

- А.
- B.
- C.

Home Assignments: 4 –5 assignments are given during the semester.

#### **Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage)	15 Marks
	Minor Test I : 06 – 09 March, 2018	
	Minor Test II : 17 -20 April, 2018	
4.	Major test (University Examination)	75 Marks

Attendance Record – Candidate should attend at least75% attendance of the total classes held of the subject

Chamber consultation hour: Any vacant period.

- 1. In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit I, 3 & 4 from unit II, 5 & 6 from unit III and 7 & 8 from unit IV). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
- 2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.

#### LECTURE PLAN



SEMESTER/CLASS

2<sup>nd</sup>/B.Tech

SESSION JAN. - JUNE 2018

**DEPARTMENT** : ELECTRICAL

SUBJECT CODE : EE 101B

**DURATION OF EXAMS: 3 HOURS** 

SUBJECT: PRINCIPLES OF ELECTRICAL ENGINEERING

SESSIONAL MARKS: 25 THEORY MARKS: 75

NAME OF TEACHER : MR. NAVEEN KUMAR

**OBJECTIVES OF CONCERNED SUBJECT:** 

This subject aims at providing knowledge of electrical basic concepts & amp; motivates students to solve simple circuits.

**OUTCOME OF CONCERNED SUBJECT:** 

1. Distinguish between dc and ac circuits and analyze them.

2. Solve electrical networks mathematically.

3. Obtain basic knowledge of Measuring Instruments.

4. Imbibe elementary knowledge of electric machines.

Lecture No.	Lecture Dates	TOPICS	TEXT/REFERENCE BOOKS
1	08/01/2018	D.C. CIRCUIT ANALYSIS: Basic Concepts Of Electric Circuits, Ohm's Law	Electrical Technology (Vol-I): B.L Theraja
2	10/01/2018	Independent Energy Sources, Dependent Energy Sources, Passive Elements, Circuit Properties	Electrical Technology (Vol-I): B.L Theraja
3	11/01/2018	Kirchoff's Laws, Applications Of Kirchoff's Laws	Electrical Technology (Vol-I): B.L Theraja
4	15/01/2018	Nodal And Loop Methods Of Analysis	Electrical Technology (Vol-I): B.L Theraja
5	17/01/2018	Superposition Theorem, Thevenin's Theorem	Electrical Technology (Vol-I): B.L Theraja
6	18/01/2018	Norton's Theorem	Electrical Technology (Vol-I): B.L Theraja
7	22/01/2018	Reciprocity Theorem, Maximum Power Transfer Theorem	Electrical Technology (Vol-I): B.L Theraja
8	25/01/2018	Millman's Theorem, Star-Delta Or Delta-Star Transformation	Electrical Technology (Vol-I): B.L Theraja
9	31/01/2018	Applications Of Network Theorems P-Spice For DC Circuit Analysis.	Electrical Technology (Vol-I): B.L Theraja
10	01/02/2018	A.C. CIRCUITS: Sinusoidal Signal, Phasors, Polar & Rectangular, Exponential & Trigonometric Representations	Electrical Technology (Vol-I): B.L Theraja
11	05/02/2018	Resistance, Inductance & Capacitance Components	Electrical Technology (Vol-I): B.L

			Theraja
12	07/02/2018	Behavior Of These Components In A.C. Circuits	Electrical Technology (Vol-I): B.L Theraja
13	08/02/2018	Phasor Relationship For Circuit Elements, Impedance & Admittance	Electrical Technology (Vol-I): B.L Theraja
14	12/02/2018	Instantaneous & Peak Values, Average And RMS Values	Electrical Technology (Vol-I): B.L Theraja
15	15/02/2018	Active Power, Reactive Power, Apparent Power	Electrical Technology (Vol-I): B.L Theraja
16	19/02/2018	Power Factor, Complex Power, Behavior Of AC Series , Parallel Circuits	Electrical Technology (Vol-I): B.L Theraja
17	21/02/2018	RC & RLC A.C. Circuits (Series And Parallel), Resonance-Series And Parallel R-L-C Circuits	Electrical Technology (Vol-I): B.L Theraja
18	26/02/2018	Q-Factor, Cut-Off Frequencies & Bandwidth.	Electrical Technology (Vol-I): B.L Theraja
19	28/02/2018	THREE PHASE CIRCUITS: Phase And Line Voltages And Currents, Balanced Star And Delta Circuits	Electrical Technology (Vol-I): B.L Theraja
20	05/03/2018	Power Equation, Measurement Of Power By Two Wattmeter Method	Electrical Technology (Vol-I): B.L Theraja
21	12/03/2018	Measuring Instruments: Principle, Construction & Working Of Moving Coil Type Voltmeter Ammeter	Electrical Technology (Vol-I): B.L Theraja
22	14/03/2018	Moving Iron Type Voltmeter & Ammeter	Electrical Technology (Vol-I): B.L Theraja
23	15/03/2018	Electrodynamic Type Wattmeter, Single-Phase Induction Type Energy Meter.	Electrical Technology (Vol-I): B.L Theraja
24	19/03/2018	TRANSFORMERS: Ampere's Law, Mutual Inductance, Construction, Working Principle And Phasor Diagrams Of Single-Phase Transformer	Electrical Technology (Vol-I): B.L Theraja
25	26/03/2018	Emf Equation, Equivalent Circuit, Testing	Electrical Technology (Vol-I): B.L Theraja
26	28/03/2018	Efficiency And Regulation Of Single-Phase Transformer, Auto Transformer.	Electrical Technology (Vol-I): B.L Theraja
27	29/03/2018	ROTATING MACHINES: Construction And Working Principle Of Dc Motor And Generator And Its Characteristics	Electrical Technology (Vol-I): B.L Theraja
28	02/04/2018	Construction And Working Principle Of 3-Phase Induction Machines	Electrical Technology (Vol-I): B.L Theraja
29	04/04/2018	3-Phase Synchronous Machines.	Electrical Technology (Vol-I): B.L Theraja
30	05/04/2018	Torque-Speed Characterstics	Electrical Technology (Vol-I): B.L Theraja
31	09/04/2018	Revision Class	Electrical Technology (Vol-I): B.L Theraja
32	11/04/2018	Revision Class	Electrical Technology (Vol-I): B.L Theraja

- A. Basic Electrical Engg (2nd Edition) : Kothari & amp; Nagarath, TMH
- B. Electrical Technology (Vol-I): B.L Theraja & amp; A K Theraja, S.Chand
- C. Fundamental of electrical Engineering, Rajendra Prasad, PHI, Edition 2005.
- D. Basic Electrical Engineering, V.N Mittle & amp; Arvind Mittal, TMH, Second Edition
- E. Basic Electrical Engineering, S.N. Singh, PHI

Home Assignments: 4 –5 assignments are given during the semester.

#### **Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage)	15 Marks
	Minor Test I : 06 – 09 March, 2018	
	Minor Test II : 17 -20 April, 2018	
4.	Major test (University Examination)	75 Marks

Attendance Record – Candidate should attend at least75% attendance of the total classes held of the subject

Chamber consultation hour: Any vacant period.

- 1. In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit I, 3 & 4 from unit II, 5 & 6 from unit III and 7 & 8 from unit IV). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
- 2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.

#### **LECTURE PLAN**



SEMESTER/CLASS	ECE/ME/CSE/CE/EE- 2nd	SESSION	JAN JUNE 2018		
SUBJECT: Basic of Electro	nics (BOE)	SUBJECT	CODE : ECE102B		
SESSIONAL MARKS: 25	THEORY MARKS: 75	<b>DURATION O</b>	F EXAMS: 3 HOURS		
NAME OF TEACHER : M	r. Madhwendra Nath & Mr. Amit Banga	D	<b>EPARTMENT</b> : ECE		
<ul> <li>OBJECTIVES OF CONCERNED SUBJECT:</li> <li>To understand the Basics of Electronics</li> <li>To understand the devices of electronics engg.</li> </ul>					

# OUTCOME OF CONCERNED SUBJECT:

The student will get the knowledge of Electronics devices

Lecture No.	Lecture Dates	TOPICS	TEXT/REFERENCE BOOKS
	8/01/18,	Semiconductor Physics, Diodes and Applications:	
	9/01/18,	Basic concepts, intrinsic and extrinsic semiconductors, diffusion and drift currents ,Hall	
1-5	10/01/18	effect and its applications-pn junction under open circuit, reverse bias and forward bias conditions,	"Basics of Electronics" by J.B. Gupta
	11/01/18	p-n junction in the breakdown region, ideal diode, types of diodes –zener diode, varactor diode, LED	
	15/01/18	and photodiode. Rectifier (half wave and full wave).	
	30/01/18,		
	31/01/18,	Amplifiers:	"Basics of Electronics" by J.B.
6-10	05/02/18	Introduction of different types of BJT amplifiers & their characteristics.	Gupta
	06/02/18		
	07/02/18		
	07/02/18		
	08/02/18,	<b>Operational Amplifiers</b> :	"Basics of Electronics" by J.B.
11-15	12/02/18	OP-amps, its characteristics, inverting, non- inverting, summing, averaging, scaling	Gupta
	15/02/18	,difference, integrator and differentiator amplifiers.	
	19/02/18		
16-19	21/02/18	<b>Power Supplies:</b> Introduction and working of switched mode power	"Basics of Electronics" by J.B. Gupta

	21/02/18	supply (SMPS), voltage regulator.	
	26/02/18		
	01/03/18,		
	05/03/18,	Digital Electronica	
	12/03/18,	<b>Digital Electronics:</b> Binary, Octal and Hexadecimal number system and conversion, Boolean algebra, truth tables of	
20-24	14/03/18	logic gates AND, OR,NOT,EX-OR,EX-NOR, NAND, NOR AND their implementation using	"Basics of Electronics" by J.B.
	14/03/18	diodes transistors, switches and lamps, Universal	Gupta
	15/03/18	gates.	
	19/03/18,	Electronia Instrumenta	
25-28	21/03/18,	<b>Electronic Instruments:</b> Transducers, Role, importance and applications of general purpose test instruments viz. multi meter	"Basics of Electronics" by J.B.
23-20	21/03/18	(digital and analog), cathode ray oscilloscope (CRO), function/ signal generator.	Gupta
	26/03/18	(CRO), function/ signal generator.	
	28/03/18,		
29-32	28/03/18,	<b>Communication System:</b> Modulation, need of modulation, Block diagram	
2)-32	01/04/18	of basic communication system, overview of AM, FM and PM.	"Basics of Electronics" by J.B. Gupta
	02/04/18		
	03/04/18		
	04/04/18,	Microprocessor:	
33-37	09/04/18	Basics of 8085 & its architecture. Instruction set, Interrupts, Addressing modes.	"Basics of Electronics" by J.B. Gupta
	10/04/18	incirupts, Addressing modes.	
	16/04/18		

#### **Text Books :**

1. "Basics of Electronics" by J.B. Gupta

#### **Reference Books :**

Sedra A S and Smith K C. "Microelectronic Circuits" New York.Oxford University Press, New York 1. Tocci R J and widner N S "Digital Systems" - Principles and Applications", Pearson Education India, 2. new Delhi .

Cooper and Helfric, "Modern Electronic Instrumentation and Measuring Techniques". Prentice Hall of 3. India, New Delhi.

Boylestad and Nashelesky, "Electronic Devices and Circuit Theory", Pearson Education India, New 4. Delhi

5.

Millman and Grabel, "Microelectronics", Tata McGraw Hill Millman and Halkias, "Electronics Devices and Circuits". Tata McGraw Hill 6.

Kennedy and Davis, "Electronic Communication Systems", Tata McGraw Hill 7.

Ramesh S. Gaonkar, "Microprocessor Architecture, Programming, and Applications with the 8. 8085", Penram International Publishing.

Home Assignments: 4 –5 assignments are given during the semester.

#### **Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage)	15 Marks
	Minor Test I : 06 – 09 March, 2018	
	Minor Test II : 17 -20 April, 2018	
4.	Major test (University Examination)	75 Marks

Attendance Record – Candidate should attend at least75% attendance of the total classes held of the subject

Chamber consultation hour: Any vacant period.

- 1. In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit I, 3 & 4 from unit II, 5 & 6 from unit III and 7 & 8 from unit IV). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
- 2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.

#### LECTURE PLAN

SEMESTER/CLASS

2<sup>nd</sup>/ All Common

SUBJECT: MATHEMATICS

SESSIONAL MARKS: 25 THEORY MARKS: 75

NAME OF TEACHER : DR. GEETA JAIN

**OBJECTIVES OF CONCERNED SUBJECT: 1.** To understand the concept of complex variable ,C-R equation, harmonic function and its conjugate.

2. To understand the concept of Fourier series and its complex form.

**OUTCOME OF CONCERNED SUBJECT:** 1.Understand complex variable theory, Application of harmonic conjugate.

2. Expand the periodic function by using Fourier series and complex form of Fourier series.

Lecture No.	Lecture Dates	TOPICS	TEXT/REFERENCE BOOKS
1	10/01/2018	Euler's Formula	
2	16/01/2018	Dirichlet Condition	
3	17/01/2018	Half Range Series	
4	23/01/2018	Half Range Series	A. Fourier Series: Higher Engg. Mathematics: B.S.GREWAL
5	24/01/2018	Half Range Series	B. Advanced Engg. Mathematics by F.Krevszig
6	30/01/2018	Change of interval	
7	31/01/2018	Parseval's theorem	
8	06/02/2018	Waveform	
9	07/02/2018	Taylor Laurent Seris	A. Complex Variable: Higher Engg. Mathematics: B.S.GREWAL
10	20/02/2018	Residue Theorem	B. Advanced Engg. Mathematics by F.Krevszig
11	12/02/2018	Cauchy Theorem	
12	13/03/2018	Line Integral	
13	14/03/2018	Line Integral	



SESSION

**JAN. - JUNE 2018** 

## SUBJECT CODE : MATH-102-B

**DURATION OF EXAMS: 3 HOURS** 

**DEPARTMENT : APPLIED SCIENCE** 

		Surprise Test	
14	21/03/2018	Analytic Function	
15	21/03/2018	Revision	
16	22/03/2018	Analytic Function	
17	27/03/2018	Limit, Logarithmatic and Complex Function	A. Complex Variable: Higher Engg.
18	28/03/2018	Hyperbolic Function	Mathematics: B.S.GREWAL
19	03/04/2018	Hyperbolic Function	B. Advanced Engg. Mathematics by F.Krevszig
20	04/04/2018	Fourier Transform	
21	10/04/2018	Fourier Transform	
22	11/04/2018	Fourier Transform	
23	13/04/2018	Revision Start	

- A. Differential Equation: H.T.H. Piaggio
- B. Advanced Engg. Mathematics : R.K.Jain

Home Assignments: 4 –5 assignments are given during the semester.

#### **Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage)	15 Marks
	Minor Test I : 06 – 09 March, 2018	
	Minor Test II : 17 -20 April, 2018	
4.	Major test (University Examination)	75 Marks

Attendance Record – Candidate should attend at least75% attendance of the total classes held of the subject

Chamber consultation hour: Any vacant period.

- 1. In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit I, 3 & 4 from unit II, 5 & 6 from unit III and 7 & 8 from unit IV). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
- 2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.

LECTURE PLAN



SEMES'	TER/CLASS	$2^{nd}$	SESSION	JAN JUNE 2018
SUBJE	C <b>T</b> :	INTRODUCTION TO COMPUTERS &	PROGRAMMING	
SUBJE	CT CODE :	CSE-101-B		
SESSIO	NAL MARKS: 2	<b>25 THEORY MARKS: 75</b>	DURATION (	OF EXAMS: 3 HOURS
NAME	OF TEACHER :	PUNEET SHARMA		
DEPAR	TMENT :	Computer Science & Engineering		
<b>OBJEC</b>	TIVES OF CON	CERNED SUBJECT:		
Program	mming is abou	Familiar with Basic Fundamental of t Writing the instructions which a C nowledge and Communicate Knowledge	Computer Follows	to enable it to store
OUTCO	OME OF CONCE	ERNED SUBJECT:		
Subject Helps Students to have Specializations in the Programming Core in C. It Helps Students to describe and analyze the behavior of Computer Program.				
			amming Core in C	2. It Helps Students
to descr			amming Core in C	
			amming Core in C	2. It Helps Students TEXT/REFERENCE BOOKS
to descr Lectur	ribe and analyz	e the behavior of Computer Program. TOPICS Anatomy of a Digital Comp different Units of Computer S	outer, ystem,	TEXT/REFERENCE
to descr Lectur e No.	ribe and analyze Lecture Dates 8/01/2018	e the behavior of Computer Program. TOPICS Anatomy of a Digital Comp	outer, System, Systems nd	TEXT/REFERENCE BOOKS
to descr Lectur e No. 1-2	Fibe and analyze           Lecture Dates           8/01/2018           10/01/2018           11/01/2018           15/01/2018	e the behavior of Computer Program. TOPICS Anatomy of a Digital Comp different Units of Computer S Classifications of Computer S Radix Number Systems a	outer, system, ystems nd em to another	TEXT/REFERENCE BOOKS A,B
to descr Lectur e No. 1-2 3-5	Fibe and analyze           Lecture Dates           8/01/2018           10/01/2018           11/01/2018           15/01/2018           17/01/2018           18/01/2018	e the behavior of Computer Program. TOPICS Anatomy of a Digital Comp different Units of Computer S Classifications of Computer S Radix Number Systems a Conversions from one number syste	outer, ystem, ystems nd em to another PIC, ASCII	TEXT/REFERENCE BOOKS A,B A,B
to descr Lectur e No. 1-2 3-5 6-7	Fibe and analyze           Lecture Dates           8/01/2018           10/01/2018           11/01/2018           15/01/2018           17/01/2018           23/01/2018           24/01/2018           25/01/2018	e the behavior of Computer Program. TOPICS Anatomy of a Digital Comp different Units of Computer S Classifications of Computer S Radix Number Systems a Conversions from one number syste Binary codes: BCD, Gray, EBCD Operating System concept Operating System services Types of Operating System Introduction to PC Operating Sy Unix/Linux,	outer, ystem, ystems nd em to another PIC, ASCII	TEXT/REFERENCE         BOOKS         A,B         A,B         A,B         A,B

15-17	05/02/2018	Programming Fundamentals: Problem definition, Algorithms &	A,B
15 17	07/02/2018 08/02/2018	Flowcharts and their symbols	
18-19	12/02/2018	C Fundamentals, Basic data types,	А,,В
	13/02/2018	local & external variables and scope	
20-21	15/02/2018	formatted input/ output, operators & expressions, selection	A,B
	16/02/2018	statements, loops and their applications	
22	10/02/2019	Basic concepts of Computer Networks,	A,B
22	19/02/2018	Working of Internet and its major features	
	21/02/2010	Network Topologies: Bus, Star, Ring, Hybrid, Tree, Complete,	A,B
23	21/02/2018	Irregular;	
		Types of Networks: LAN, MAN and WAN	
26	26/02/2018	Pointers and Arrays	A,B,C
		Electronic Mail:	
		advantages and disadvantages,	
27	05/02/2018	e-mail addresses, message components,	A,C
		message composition, mailer features,	
		e-mail inner workings, e-mail management	
28	12/03/2018	Newsgroups, Mailing lists, Chat rooms	A,C
29	13/03/2018	Functions and Recursion	A,C
30-31	14/03/2018	Strings literals, arrays of strings;	A,C
50 51	15/03/2018	applications	,
32	19/03/2018	Structures, Unions and Enumerations	A,C
		Preprocessor Directives,	
33-34	21/03/2018	Macro definition,	
	22/03/2018	Conditional compilation,	A,C
		Storage Classes	
35-36	26/03/2018	File operations (low level/high level)	
	27/03/2018		A,C
37	28/03/2018	type's qualifiers, error handling	A,C
38-40	02/04/2018	low level programming	
36-40	04/04/2018	(Bit fields in structures, other low level techniques)	A,C
	05/04/2018		

- A. Fundamentals of Computing and C Programming, R. B. Patel, Khanna Publications, 2010.
- B. Computer Fundamentals, Pradeep Sinha & Priti Sinha, 4<sup>th</sup> Edition, BPB Publications
- C. The C Programming Language by Dennis M Ritchie, Brian W. Kernigham, 1988, PHI.

Home Assignments: 4 –5 assignments are given during the semester.

#### **Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage)	15 Marks
	Minor Test I : 06 – 09 March, 2018	
	Minor Test II : 17 -20 April, 2018	
4.	Major test (University Examination)	75 Marks

Attendance Record – Candidate should attend at least75% attendance of the total classes held of the subject

Chamber consultation hour: Any vacant period.

- 1. In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit I, 3 & 4 from unit II, 5 & 6 from unit III and 7 & 8 from unit IV). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
- 2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.

#### **LECTURE PLAN**



SEMESTER/CLASS	2 <sup>ND</sup>	SESSION	JAN JUNE 2018
SUBJECT: ENGINEERING CHEMISTRY		SUBJECT CODE : CH101B	
SESSIONAL MARKS: 25	THEORY MARKS: 75	DURATION OF EXAMS:	3 HOURS
NAME OF TEACHER : DR. MANJU RANI		DEPARTMENT : APPLIED SCI	ENCE

#### **OBJECTIVES OF CONCERNED SUBJECT:**

To Make Students Familiar with Basic Fundamental of Engineering Chemistry.

#### OUTCOME OF CONCERNED SUBJECT:

Subject Helps Students to have knowledge about applications of Chemistry.

Lecture No.	Lecture Dates	ΤΟΡΙCS	TEXT/REFERENCE BOOKS
1-2	11.1.2018	<b>Polymers and Polymerization:</b> Organic polymers, polymerisation, various types of polymerisation, effect of structure on properties of polymers, preparation properties and technical applications of thermoplastics (PE, PVC, PVA, Teflon),	A,B
3	12.1.2018	thermosets (PF, UF & MF)	А,В,
4	16.1.2018	and elastomers (Synthetic Rubber including SBR, Buna-S, Buna-N, Thiokol & Polyurethanes),	А,В,
5-6	18.1.2018	Inorganic polymers (general properties), Glass transition temperature, silicones	А,В,
7	19.1.2018	Composite Materials & their application: optical fibres, Fullerenes ,organic electronic material ,	А,В,
8	23.1.2018	composite materials & their classification, constituents of composites, role of interface in composite performance and durability,	А,В,
9-10	25.1.2018	fiber –Reinforced composite, advantage and applications of composites.	А,В,
11	30.1.2018	Thermodynamics: Second law, concept of entropy,	А
12-13	01.02.2018	entropy change for ideal gas, free energy and work functions, free energy change, chemical potential,	А
14	02.02.2018	Gibb's Helmholtz equation, Clausius –Clapeyron equation.	А
15	06.02.2018	Related numerical problems with above topics.	А
16-17	08.02.2018	<b>Phase-rule:</b> Terminology, Derivation of Gibb's Phase Rule equation, One component system(water system),	А

18	09.02.2018	Two components systems, system with Eutectic point (Pb-Ag),	A
19	13.02.2018	system with congruent melting point (Zn-Mg), system with incongruent melting point (Na-K),	А
20	15.02.2018	Applications of above systems. Elementary idea of Zone refining and Zone leveling.	А
21	16.02.2018	Revision	A
22	20.02.2018	Water and its treatment: Hardness of water and its determination, units of hardness	А, В,
23	27.02.2018	alkalinity of water and its determination, related numerical problems,	А,В,
24	01.03.2018	Water softening, Ion-exchange process, mixed bed demineralisation,	А,В,
25	02.03.2018	desalination of water by using different methods.	А,В,
26	13.03.2018	Corrosion and its prevention: Galvanic & concentration cell, dry and wet corrosion, Electrochemical theory of corrosion,	А,В,
27	15.03.2018	Galvanic corrosion, Pitting corrosion , differential aeration corrosion, water line corrosion, stress corrosion,	А,В,
28	16.03.2018	factor effecting corrosion, Preventing measures, electroless Plating of Ni and Cu.	А,В,
29	20.03.2018	Revision	А
30	27.03.2018	Lubricants and fuels: Friction, mechanism of lubrication, classification and properties of lubricants and selection of Lubricants,	А
31-32	29.03.2018	Definition and classification of fuel, Calorific value and methods of its determination.	А
33	30.03.2018	Analytical methods: Thermal methods; Principle, method and application of TGA,DTA & DSC	A
34-35	03 - 05.04.2018	interaction of E.M radiation with a molecule and origin of spectrum, Vibrational & electronic spectra (Experimental details are excluded), spectrophotometry,	A
36	06.04.2018	conductometeric titrations, elementary discussion on Flame-photometery.	A
37	10.04.2018	Revision	А

- A. Engineering Chemistry, B.K. Ambaska (Laxmi Publications)
- B. Engineering Chemistry, Shashi Chawla (DhanpatRai and co.)
- C. Engineering Chemistry, P.C. Jain, Monica Jain (DhanpatRai& Co.).

Home Assignments: 4 –5 assignments are given during the semester.

#### **Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage)	15 Marks
	Minor Test I : 06 – 09 March, 2018	
	Minor Test II : 17 -20 April, 2018	
4.	Major test (University Examination)	75 Marks

Attendance Record – Candidate should attend at least75% attendance of the total classes held of the subject

Chamber consultation hour: Any vacant period. Note:

- 1. In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit I, 3 & 4 from unit II, 5 & 6 from unit III and 7 & 8 from unit IV). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
- 2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.

#### **LECTURE PLAN**



SEMESTER/CLASS	2 <sup>nd</sup>	SESSION	JAN JUNE 2018
SUBJECT: Mathematics	-II	SUBJECT CC	DDE : MATH-102B
SESSIONAL MARKS: 25	THEORY MARKS: 75	<b>DURATION C</b>	OF EXAMS: 3 HOURS
NAME OF TEACHER : 1	Neelu Chaudhary	Departme	ent;: App Sc.Deptt.

NAME OF TEACHER : Neelu Chaudhary

#### **OBJECTIVES OF CONCERNED SUBJECT:**

To teach the basic concepts of mathematics to the engineering students which they can apply inn their respective branches

**OUTCOME OF CONCERNED SUBJECT:** The students becomes well versed with application area of the concepts taught.

Lecture No.	Lecture Dates	TOPICS	TEXT/REFERENCE BOOKS
1	15.01.2018	Exact diff.equation	B.S.Grewal
2	18.01.2018	Eq. reducible to Exact diff.equation	B.S.Grewal
3	24.01.2018	Eq. reducible to Exact diff.equation	B.S.Grewal
4	25.01.2018	Application of diff.eqs of first order &first degree to simple electric circuits	B.S.Grewal
5	29.01.2018	Orthogonal trajectories	B.S.Grewal
6	1.02.2018	Newton's law of cooling, heat flow	B.S.Grewal
7	5.02.2018	Complete solution, complementary function & particular integral	B.S.Grewal
8	8.02.2018	Complete solution, complementary function & particular integral	B.S.Grewal
9	12.02.2018	Variation if parameters	B.S.Grewal
10	15.02.2018	Cauchys linear diff eqs	B.S.Grewal
11	19.02.2018	Legenders linear diff.eqs	B.S.Grewal
12	22.02.2018	Simultaneous linear diff.eqs with consant coefficients	B.S.Grewal

13	26.02.2018	revisions	B.S.Grewal,H.C
15	20.02.2018		Taneja,Mishra
			9
14	1.03.2018	revisions	B.S.Grewal,H.C
			Taneja,Mishra
15	12.03.2018	Laplace transforms of elementary functions,	B.S.Grewal
		properties existence conditions	D.S.Olewar
1.6	15 00 0010	Transforms of derivatives, transform of integrals,	B.S.Grewal
16	15.03.2018	multiplication by tn	
17	19.03.2018	Division with t	B.S.Grewal
18	22.03.2018	Unit step function	
			B.S.Grewal
19	26.03.2018	Unit impulse & periodic function	
		<u>r</u>	B.S.Grewal
20	29.03.2018	Inverse transforms	D.C.C.
			B.S.Grewal
21	2.04.2018	Convolution theorem	D.C.C.
			B.S.Grewal
22	5.04.2018	Application to linear diff.equation	D.C.C.
			B.S.Grewal
23	9.04.2018	Simultaneous linear diff eqs with consant coefficent	B.S.Grewal
		A	D.S.Grewal
24	12.04.2018	Simultaneous linear diff eqs with consant coefficent	B.S.Grewal
		1	D.S.Grewal
25	16.04.2018	Revision	B.S.Grewal,H.C
			Taneja,Mishra
L			J

- A. Advanced Engg. Mathematics F kreyszig
- B. Higher Engg.Mathematics B.S. Greewal
- C. Higher Engg.Mathematics H.C.Taneja

Home Assignments: 4 –5 assignments are given during the semester.

#### **Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage)	15 Marks
	Minor Test I : 06 – 09 March, 2018	
	Minor Test II : 17 -20 April, 2018	
4.	Major test (University Examination)	75 Marks

Chamber consultation hour: Any vacant period.

- 1. In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit I, 3 & 4 from unit II, 5 & 6 from unit III and 7 & 8 from unit IV). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
- 2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.

# HINDU COLLEGE OF ENGINEERING, SONEPAT LECTURE PLAN SEMESTER/CLASS SUBJECT PHYSICS SESSIONAL MARKS: 25 THEORY MARKS: 75 NAME OF TEACHER : MUKESH

OBJECTIVES OF CONCERNED SUBJECT: TO DEVELOP THEORETICAL FOUNDATION AND EXPERIMENTAL SKILLS TO STUDY NATURAL PHENOMENONA.

OUTCOME OF CONCERNED SUBJECT: STUDENTS HAVE KNOWLEDGE IN DEPTH OF PHYSICS.

Lecture No.	Lecture Dates	TOPICS	TEXT/REFERENCE BOOKS
I.	08/01/2018	CRYSTAL STRUCTURE	AS VASUDEVA
2	15/01/2018	CRYSTAL STRUCTURE	AS VASUDEVA
3	23/01/2018	X-RAY DIFFRACTION	AS VASUDEVA
4	29/01/2018	PLANCKS RADIATION LAW	SATYAPRAKASH
5	02/02/2018	QUANTUM MECHANICS	SATYAPRAKASH
6	05/02/2018	QUANTUM MECHANICS	SATYAPRAKASH
7	06/02/2018	FREE ELECTRON MODEL	SATYAPRAKASH
8	12/02/2018	FERMI ENERGY	SATYAPRAKASH
9	16/02/2018	RICHERDSONS EQUATION	SATYAPRAKASH
10	19/02/2018	MAXWELLS EQUATION	SP TANEJA
11	21/02/2018	WAVE EQUATION	SP TANEJA
12	27/02/2018	POYNTING VECTOR. DIELECTRIC	SP TANEJA
13	12/03/2018	KP-MODEL	SP TANEJA
14	14/03/2018	EFFECTIVE MASS, SEMICONDUTOR	SP TANEJA
15	19/03/2018	HALL EFFECT	SP TANEJA

16	21/03/2018	SUPERCONDUCTIVITY	AS VASUDEVA
17	26/03/2018	MEISSNER EFFECT, ISOTOPE EFFECT	AS VASUDEVA
18	28/03/2018	LONDONS EQUATION	AS VASUDEVA
19	02/04/2018	BCS THEORY, HTS	AS VASUDEVA
20	04/04/2018	NANO-SCIENCE	TP SINGH
21	0604/2018	CNT, QD,NEMS,MEMS	TP SINGH
22	10/04/2018	FULLERENE, GRAPHENE	TP SINGH
23	13/04/20181	APPLICATIONS OF NANOSCIENCE	

- A. ENGINEERING PHYSICS- SATYAPRAKASH
- B. ENGINEERING PHYSICS- SP TANEJA
- C. ENGINEERING PHYSICS- AS VASUDEVA
- D. ENGINEERING PHYSICS- TP SINGH

Home Assignments: 4-5 assignments are given during the semester.

#### **Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage) Minor Test 1 : 06 – 09 March, 2018	15 Marks
	Minor Test II : 17 -20 April, 2018	
4.	Major test (University Examination)	75 Marks

Attendance Record – Candidate should attend at least75% attendance of the total classes held of the subject

Chamber consultation hour: Any vacant period.

Note:

- In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit 1, 3 & 4 from unit 11, 5 & 6 from unit 111 and 7 & 8 from unit 1V). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
- 2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.

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#### **LECTURE PLAN**



**SUBJECT CODE** : ME 105B

**DEPARTMENT** : Mechanical Engineering

**DURATION OF EXAMS: 3 HOURS** 

**JAN. - JUNE 2018** 

SESSION

SEMESTER/CLASS	2
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SUBJECT: ELEMENTS OF MECHANICAL ENGG.

SESSIONAL MARKS: 25 THEORY MARKS: 75

#### NAME OF TEACHER :SUKHVINDER SINGH

#### **OBJECTIVES OF CONCERNED SUBJECT:**

To understand the basic concept of mechanical engineering .

**OUTCOME OF CONCERNED SUBJECT:** 

Ability to understand the  $% \left( {{\rm working}} \right)$  of basic mechanical devices as engines , boilers , turbines, power tramission devices etc.

Lecture No.	Lecture Dates	TOPICS	TEXT/REFERENCE BOOKS
1	8/1/2018	THERMODYNAMICS- Elementary definitions in thermodynamics,	В
2	10/1/2018	fundamentals of first and 2nd law of thermodynamic	В
3	11/1/2018	concept of internal energy, enthalpy and entropy,	В
4	12/1/2018	heat pump and refrigerator, elementary numerical problems.	В
5	15/1/2018	PROPERTIES OF STEAM & BOILERS: properties of steam,	А
6	17/1/2018	use of steam tables and mollier diagram, measurement of dryness fraction of steam	А
7	18/1/2018	Carnot and Rankin cycle, elementary numerical problems.	С
8	19/1/2018	Classification of boilers, Comparison of water and fire tube boilers	А
9	24/1/2018	mounting and accessories with their functions,	А
10	25/1/2018	Constructional and operational details of Cochran and Babcock and Wilcox boilers,	А
11	29/1/2018	STEAM TURBINES AND CONDENSERS: Classification of turbines and their working principles,	С
12	31/1/2018	Types of condensers and their uses.	С
13	01/2/2018	I.C. ENGINES AND GAS TURBINES: Introduction, Classification,	А

14	02/2/2018	Constructional details and working of four-stroke diesel and petrol engines	А
15	05/2/2018	Constructional details and working of Two-stroke diesel and petrol engines	А
16	07/2/2018	Efficiency of Otto & Diesel cycles ,	А
17	08/2/2018	Working principle of gas turbine, elementary numerical problems.	А
18	09/2/2018	<b>REFRIGERATION AND AIR CONDITIONING-</b> rating of refrigeration machine, coefficient of	В
19	12/2/2018	performance, simple vapor compression cycle,	В
20	15/2/2018	fundamentals of air conditioning, use of Psychrometric charts.	В
21	16/2/2018	WATER TURBINES AND PUMPS : Introduction, Classification, Construction details and working principle of Pelton	А
22	19/2/2018	Construction details and working principle of Francis and Kaplan turbines,	А
23	21/2/2018	Classification of water pumps	А
24	26/2/2018	construction detail & working principle of centrifugal pump.	А
25	01/3/2018	SIMPLE LIFTING MACHINES: Definition of machine, Velocity ratio, Mechanical advantage, Efficiency,	А
26	02/3/2018	Laws of machines, Reversibility of machine,	А
27	05/3/2018	Wheel and axle, Differential pulley block,	А
28	12/3/2018	Single, double and triple start worm and worm wheel, Single and double purchase winch crabs	А
29	14/3/2018	Simple screw jacks	А
30	15/3/2018	Compound screw jack, elementary numerical problems	А
31	16/3/2018	INTRODUCTION TO POWER TRANSMISSION AND DEVICES: Belt drive, Rope drive, chain drive	А
32	19/3/2018	Types of gear and Gear train,	А
33	21/3/2018	Types and function of clutches,	А
34	26/3/2018	Types and function of brakes.	А
35	28/3/2018	STRESSES AND STRAINS: Introduction, Concept & types of Stresses and strains, Poison's ratio	А
36	30/3/2018	, stresses and strains in simple and compound bars under axial loading	А
37	02/4/2018	Stress-strain diagrams, Hooks law	А
38	04/4/2018	Elastic constants & their relationships.	А
39	05/4/2018	Concept of shear force and bending moments in beams	А
40	06/4/2018	elementary numerical problems.	А
41	09/4/2018	Revision	А
42	11/4/2018	Revision	А
43	12/4/2018	Solution of previous year papers	А
44	16/4/2018	Solution of previous year papers	А

- A. Elements of Mechanical Engineering D.S. Kumar, Pub. Kataria & Sons, New Delhi.
- B. Elements of Mechanical Engineering D.S. Kumar, Pub. Kataria & Sons, New Delhi.
- C. Thermal Engineering D.S. Kumar, Pub. Kataria & Sons, New Delhi.

#### Home Assignments: 4 –5 assignments are given during the semester.

#### **Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage)	15 Marks
	Minor Test I : 06 – 09 March, 2018	
	Minor Test II : 17 -20 April, 2018	
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Attendance Record – Candidate should attend at least75% attendance of the total classes held of the subject

Chamber consultation hour: Any vacant period.

- 1. In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit I, 3 & 4 from unit II, 5 & 6 from unit III and 7 & 8 from unit IV). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
- 2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.