LESSON PLAN FOR EVEN SEM
SESSION 2017-18

NAME OF ASSISTANT PROFESSOR :Ms. SAVITA RANI
CLASS/SECTION : M.Sc. Applied Physics SEM-IV
SUBJECT : MATERIAL SCIENCE II (PAPER-I), COMMUNICATION SYSTEMS(PAPER-V)

UNIT/PART I	TOPIC	
	THEORY	**PRACTICAL**
DAY1 DATE 1-1-18	……	COMPUTER LAB algorithm of quadratic equation
DAY2 DATE 2-1-18	……	OPTICS LAB Fabrication of optical equilateral prism(pitch number-100) ELECTRONICS LAB Electronics project
DAY3 DATE 3-1-18	Introduction to polymers	COMPUTER LAB flowchart of quadratic equation OPTICS LAB Fabrication of optical equilateral prism(pitch number-100)
DAY4 DATE 4-1-18	Different kinds of polymers	ELECTRONICS LAB Electronics project MECHANICAL LAB Fabrication of spanner(distribution of iron slab)
DAY5 DATE 5-1-18	Examples of polymers	MECHANICAL LAB Fabrication of spanner(measurement of size of slab)
DAY6 DATE 6-1-18	Polymerization	……
DAY7 DATE 8-1-18	……	COMPUTER LAB Program of quadratic equation
DAY8 DATE 9-1-18	……	OPTICS LAB: Fabrication of optical equilateral prism(pitch number-100) ELECTRONICS LAB: Electronics project
DAY9 DATE 10-1-18	Types of polymerization	COMPUTER LAB: Program of quadratic equation OPTICS LAB: Fabrication of optical equilateral

		prism(pitch number-100)
DAY10 DATE 11-1-18	Molecular weight	ELECTRONICS LAB: Electronics project MECHANICAL LAB: Fabrication of spanner(drilling of slab)
DAY11 DATE 12-1-18	Molecular weight distribution	MECHANICAL LAB: Fabrication of spanner(drilling of slab)
DAY12 DATE 13-1-18	Amorphous Polymers	……
DAY13 DATE 15-1-18	……	COMPUTER LAB: algorithm of bisection method
DAY 14 DATE 16-1-18	……	OPTICS LAB: Fabrication of optical equilateral prism(pitch number-120) ELECTRONICS LAB: Electronics project
DAY15 DATE 17-1-18	Crystalline Polymers	COMPUTER LAB flowchart of bisection method OPTICS LAB Fabrication of optical equilateral prism(pitch number-120)
DAY16 DATE 18-1-18	Response of polymers to stress over a temperature range	ELECTRONICS LAB Electronics project MECHANICAL LAB Fabrication of spanner(cutting of drilled part)
DAY17 DATE 19-1-18	Rigid Region	MECHANICAL LAB Fabrication of spanner(cutting of drilled part)
DAY18 DATE 20-1-18	Viscoelastic Region	……
DAY19 DATE 22-1-18	**HOLIDAY**	
DAY20 DATE 23-1-18	**SPORTS DAY**	
DAY21 DATE 24-1-18	**HOLIDAY**	
DAY22 DATE 25-1-18	Rubbery Region	ELECTRONICS LAB: Electronics project MECHANICAL LAB: Fabrication of spanner(cutting of drilled part)
DAY23 DATE 26-1-18	**HOLIDAY**	

DAY 24 DATE 27-1-18	Maxwell and Kelvin Elements	**……**
UNIT/PART II	**TOPIC**	
	THEORY	**PRACTICAL**
DAY1 DATE 29-1-18	**……**	COMPUTER LAB: Program of bisection method
DAY2 DATE 30-1-18	**……**	OPTICS LAB: Fabrication of optical equilateral prism(pitch number-120) ELECTRONICS LAB Electronics project
DAY3 DATE 31-1-18	**HOLIDAY**	
DAY4 DATE 1-2-18	Mechanical analog for behaviour of polymers	ELECTRONICS LAB Electronics project MECHANICAL LAB Fabrication of spanner(scrapping and shaping)
DAY5 DATE 2-2-18	Engineering polymers	MECHANICAL LAB: Fabrication of spanner(scrapping and shaping)
DAY6 DATE 3-2-18	Conducting polymers	**……**
DAY7 DATE 5-2-18	**……**	COMPUTER LAB Program of bisection method
DAY8 DATE 6-2-18	**……**	OPTICS LAB Fabrication of optical equilateral prism(pitch number-120) ELECTRONICS LAB Electronics project
DAY9 DATE 7-2-18	Introduction to ceramics	COMPUTER LAB algorithm of simpson's 1/3 rule OPTICS LAB Fabrication of optical equilateral prism(pitch number-220)
DAY10 DATE 8-2-18	Physical properties of ceramics	ELECTRONICS LAB Electronics project MECHANICAL LAB Fabrication of spanner(scrapping and shaping)
DAY11 DATE 9-2-18	**ASSIGNMENT 1**	MECHANICAL LAB Fabrication of spanner(scrapping and shaping)
DAY12 DATE 10-2-18	**HOLIDAY**	

DAY13 DATE 12-2-18	**……**	COMPUTER LAB flowchart of simpson's 1/3 rule
DAY14 DATE 13-2-18	**HOLIDAY**	
DAY15 DATE 14-2-18	Mechanical properties of ceramics	COMPUTER LAB Program of simpson's 1/3 rule OPTICS LAB Fabrication of optical equilateral prism(pitch number-220)
DAY16 DATE 15-2-18	New Ceramics	ELECTRONICS LAB Electronics project MECHANICAL LAB Fabrication of spanner(scrapping and shaping)
DAY17 DATE 16-2-18	Comparison between Traditional and New ceramics	MECHANICAL LAB Fabrication of spanner(polishing)
DAY18 DATE 17-2-18	Introduction to cement	**……**
DAY19 DATE 19-2-18	**……**	COMPUTER LAB Program of simpson's 1/3 rule
DAY20 DATE 20-2-18	**……**	OPTICS LAB Fabrication of optical equilateral prism(pitch number-220) ELECTRONICS LAB Electronics project
DAY21 DATE 21-2-18	Introduction to concrete	COMPUTER LAB algorithm of simpson's 3/8rule OPTICS LAB: Fabrication of optical equilateral prism(pitch number-302)
DAY22 DATE 22-2-18	Comparison between cement and concrete	ELECTRONICS LAB: Electronics project MECHANICAL LAB: Fabrication of spanner(polishing)
DAY23 DATE 23-2-18	Examples of traditional and new ceramics	MECHANICAL LAB: Fabrication of spanner(fine touch)
UNIT/PART III	**TOPIC**	
	THEORY	**PRACTICAL**
DAY1 DATE 24-2-18	Introduction to errors	**……**
DAY2 DATE 26-2-18	**……**	COMPUTER LAB: flowchart of simpson's 3/8rule
DAY3 DATE 27-2-18	**TEST & SEMINAR (PG CLASSES)**	
DAY4 DATE 28-2-18	**HOLIDAY**	

DAY5 DATE 1-3-18	**HOLIDAY**	
DAY6 DATE 2-3-18	**HOLIDAY**	
DAY7 DATE 3-3-18	**HOLIDAY**	
DAY8 DATE 5-3-18	**……**	COMPUTER LAB Program of simpson's 3/8rule
DAY9 DATE 6-3-18	**……**	OPTICS LAB Fabrication of optical equilateral prism(pitch number-302) ELECTRONICS LAB Electronics project
DAY10 DATE 7-3-18	Error control coding	COMPUTER LAB Program of simpson's 3/8rule OPTICS LAB Fabrication of optical equilateral prism(pitch number-304)
DAY11 DATE 8-3-18	Methods of controlling errors	ELECTRONICS LAB Electronics project MECHANICAL LAB Fabrication of spanner(fine touch)
DAY12 DATE 9-3-18	Introduction to Facsimile	MECHANICAL LAB Fabrication of screw driver(distribution of iron rod)
DAY13 DATE 10-3-18	**ASSIGNMENT 2**	**……**
DAY 14 DATE 12-3-18	**……**	COMPUTER LAB algorithm of least square curve fitting
DAY15 DATE 13-3-18	**……**	OPTICS LAB Fabrication of optical equilateral prism(pitch number-304) ELECTRONICS LAB Electronics project
DAY16 DATE 14-3-18	Transmission in Facsimile	COMPUTER LAB flowchart of least square curve fitting OPTICS LAB Fabrication of optical equilateral prism(pitch number-304)
DAY17 DATE 15-3-18	Reception in Facsimile	ELECTRONICS LAB Electronics project MECHANICAL LAB Fabrication of screw driver(measurement of size of iron

		rod)
DAY18 DATE 16-3-18	Satellite Communication	MECHANICAL LAB Fabrication of screw driver(grinding)
DAY19 DATE 17-3-18	Expression to find height in satellite communication	……
DAY20 DATE 19-3-18	……	COMPUTER LAB: Program of least square curve fitting
DAY21 DATE 20-3-18	……	OPTICS LAB: Fabrication of optical equilateral prism(pitch number-304) ELECTRONICS LAB: Electronics project
DAY22 DATE 21-3-18	**CONDITIONAL TEST**	……
DAY23 DATE 22-3-18	**CONDITIONAL TEST**	……
DAY 24 DATE 23-3-18	**HOLIDAY**	
DAY 25 DATE 24-3-18	Orbits and mathematical expression	……
UNIT/PART IV	**TOPIC**	
	THEORY	**PRACTICAL**
DAY1 DATE 26-3-18	……	COMPUTER LAB Program of least square curve fitting
DAY2 DATE 27-3-18	……	OPTICS LAB polishing of prism ELECTRONICS LAB Electronics project
DAY3 DATE 28-3-18	Station keeping	COMPUTER LAB Program of least square curve fitting OPTICS LAB polishing of prism
DAY4 DATE 29-3-18	**HOLIDAY**	
DAY5 DATE 30-3-18	Satellite Altitudes	MECHANICAL LAB: Fabrication of screw driver(grinding)
DAY6 DATE 31-3-18	Transmission path	……
DAY7 DATE 2-4-18	……	COMPUTER LAB revision
DAY8	……	OPTICS LAB

DATE 3-4-18		polishing of prism ELECTRONICS LAB Electronics project
DAY9 DATE 4-4-18	Path losses and mathematical expression	COMPUTER LAB: revision OPTICS LAB Fabrication of optical equilateral prism(revision)
DAY10 DATE 5-4-18	Concept of noise consideration and Introduction to point to point communication	ELECTRONICS LAB Electronics project MECHANICAL LAB Fabrication of screw driver(grinding)
DAY11 DATE 6-4-18	Different types of point to point communication with History of telephone networks and Switching systems	MECHANICAL LAB Fabrication of screw driver(scrapping and shaping)
DAY12 DATE 7-4-18	Automatic exchange switching devices	……
DAY13 DATE 9-4-18	……	COMPUTER LAB revision
DAY14 DATE 10-4-18	……	OPTICS LAB Fabrication of optical equilateral prism(revision) ELECTRONICS LAB Electronics project
DAY15 DATE 11-4-18	Introduction to computer based communication	COMPUTER LAB Revision OPTICS LAB Fabrication of optical equilateral prism(revision)
DAY16 DATE 12-4-18	Integrated service digital network(ISDN)	ELECTRONICS LAB Electronics project MECHANICAL LAB Fabrication of screw driver(polishing)
DAY17 DATE 13-4-18	Local area network(LAN)	MECHANICAL LAB Fabrication of screw driver(polishing)
DAY18 DATE 14-4-18	**HOLIDAY**	
DAY19 DATE 16-4-18	……	COMPUTER LAB revision
DAY20 DATE 17-4-18	……	OPTICS LAB Fabrication of optical equilateral

		prism(revision) ELECTRONICS LAB: Electronics project
DAY21 DATE 18-4-18	**HOLIDAY**	
DAY22 DATE 19-4-18	RADAR system: Primary RADAR and Secondary Surveillance RADAR (SSR)	ELECTRONICS LAB: Electronics project MECHANICAL LAB: Fabrication of screw driver(handle joining)
DAY23 DATE 20-4-18	Introduction to TV systems and standards	MECHANICAL LAB: Fabrication of screw driver(fine touch)

NAME OF ASSISTANT PROFESSOR: Ms. SAVITA RANI

CLASS/SECTION: M.Sc. Applied Physics(IInd sem)

SUBJECT : QUANTUM MECHANICS(PAPER-I)
ELECTROMAGNETIC THEORY(PAPER-II)

UNIT/PART I	TOPIC	
	THEORY	**PRACTICAL**
DAY1 DATE 1-1-18	Introduction to scattering	LOGIC GATES AND Gate
DAY2 DATE 2-1-18	Theory of scattering	LOGIC GATES OR Gate
DAY3 DATE 3-1-18	Scattering Amplitude	LOGIC GATES NOT Gate
DAY4 DATE 4-1-18	**……**	GRAIN MOISTURE ANALOG Moisture Meter
DAY5 DATE 5-1-18	**……**	GRAIN MOISTURE DIGITAL Moisture Meter
DAY7 DATE 8-1-18	Scattering cross-section	LOGIC GATES AND Gate
DAY8 DATE 9-1-18	Scattering by spherically symmetric potential	LOGIC GATES OR Gate
DAY9 DATE 10-1-18	Method of partial waves	LOGIC GATES NOT Gate
DAY10 DATE 11-1-18	**……**	GRAIN MOISTURE ANALOG Moisture Meter
DAY11 DATE 12-1-18	**……**	GRAIN MOISTURE DIGITAL Moisture Meter
DAY13 DATE 15-1-18	Optical Theorem	LOGIC GATES AND Gate
DAY 14 DATE 16-1-18	Phase Shift	LOGIC GATES OR Gate
DAY15	Phase Shift in terms of potential	LOGIC GATES

DATE 17-1-18		NOT Gate
DAY16 DATE 18-1-18	**……**	GRAIN MOISTURE ANALOG Moisture Meter
DAY17 DATE 19-1-18	**……**	GRAIN MOISTURE: DIGITAL Moisture Meter
DAY19 DATE 22-1-18	**HOLIDAY**	
DAY20 DATE 23-1-18	**SPORTS DAY**	**……**
DAY21 DATE 24-1-18	**HOLIDAY**	
DAY22 DATE 25-1-18	**……**	GRAIN MOISTURE ANALOG moisture Meter
DAY23 DATE 26-1-18	**HOLIDAY**	
UNIT/PART II	**TOPIC**	
	THEORY	**PRACTICAL**
DAY1 DATE 29-1-18	Low energy scattering	LOGIC GATES AND Gate
DAY2 DATE 30-1-18	Significance of phase shift	LOGIC GATES OR Gate
DAY3 DATE 31-1-18	**HOLIDAY**	
DAY4 DATE 1-2-18	**……**	GRAIN MOISTURE: ANALOG Moisture Meter
DAY5 DATE 2-2-18	**……**	GRAIN MOISTURE DIGITAL Moisture Meter
DAY7 DATE 5-2-18	Scattering length	LOGIC GATES AND Gate
DAY8 DATE 6-2-18	Green function in scattering theory	LOGIC GATES OR Gate
DAY9 DATE 7-2-18	Expression for scattering amplitude by Green function	LOGIC GATES NOT Gate
DAY10 DATE 8-2-18	**……**	GRAIN MOISTURE ANALOG Moisture Meter
DAY11 DATE 9-2-18	**ASSIGNMENT 1**	GRAIN MOISTURE DIGITAL Moisture Meter
DAY12 DATE 10-2-18	**HOLIDAY**	
DAY13 DATE 12-2-18	Born Series	LOGIC GATES AND Gate
DAY14 DATE 13-2-18	**HOLIDAY**	
DAY15 DATE 14-2-18	First Born Approximation and its validity	LOGIC GATES NOT Gate
DAY16	**……**	GRAIN MOISTURE:

DATE 15-2-18		ANALOG Moisture Meter
DAY17 DATE 16-2-18	……	GRAIN MOISTURE: DIGITAL Moisture Meter
DAY19 DATE 19-2-18	Scattering of an electron by a screened coulomb potential by first Born approximation	LOGIC GATES AND Gate
DAY20 DATE 20-2-18	Introduction to perturbation theory	LOGIC GATES OR Gate
DAY21 DATE 21-2-18	Time Independent perturbation theory for first order and second order in degenerate case	LOGIC GATES NOT Gate
DAY22 DATE 22-2-18	……	GRAIN MOISTURE ANALOG Moisture Meter
DAY23 DATE 23-2-18	……	GRAIN MOISTURE DIGITAL Moisture Meter
UNIT/PART III	**TOPIC**	
	THEORY	**PRACTICAL**
DAY2 DATE 26-2-18	Time Independent perturbation theory for first order and second order in non-degenerate case	LOGIC GATES AND Gate
DAY3 DATE 27-2-18	**TEST & SEMINAR (PG CLASSES)**	LOGIC GATES OR Gate
DAY4 DATE 28-2-18	**HOLIDAY**	
DAY5 DATE 1-3-18	**HOLIDAY**	
DAY6 DATE 2-3-18	**HOLIDAY**	
DAY7 DATE 3-3-18	**HOLIDAY**	
DAY8 DATE 5-3-18	Time Dependent perturbation theory for constant perturbations	LOGIC GATES AND Gate
DAY9 DATE 6-3-18	Time Dependent perturbation theory for harmonic perturbations	LOGIC GATES OR Gate
DAY10 DATE 7-3-18	Zeeman effect without spin	LOGIC GATES NOT Gate
DAY11 DATE 8-3-18	……	GRAIN MOISTURE ANALOG Moisture Meter
DAY12 DATE 9-3-18	……	GRAIN MOISTURE DIGITAL Moisture Meter
DAY13 DATE 10-3-18	**ASSIGNMENT 2**	……
DAY 14 DATE 12-3-18	He atom in ground state	LOGIC GATES AND Gate
DAY15 DATE 13-3-18	Linear Stark effect in hydrogen atom	LOGIC GATES OR Gate

DAY16 DATE 14-3-18	Golden Rule	LOGIC GATES NOT Gate
DAY17 DATE 15-3-18	**……**	GRAIN MOISTURE ANALOG Moisture Meter
DAY18 DATE 16-3-18	**……**	GRAIN MOISTURE DIGITAL Moisture Meter
DAY20 DATE 19-3-18	Interaction of single electron atom with electromagnetic field	LOGIC GATES AND Gate
DAY21 DATE 20-3-18	Semi-classical treatment for electron interaction	LOGIC GATES OR Gate
DAY22 DATE 21-3-18	**CONDITIONAL TEST**	**……**
DAY23 DATE 22-3-18	**CONDITIONAL TEST**	**……**
DAY 24 DATE 23-3-18	**HOLIDAY**	
UNIT/PART IV	**TOPIC**	
	THEORY	**PRACTICAL**
DAY1 DATE 26-3-18	Induced absorption and emission	LOGIC GATES AND Gate
DAY2 DATE 27-3-18	Identical particles and spin	LOGIC GATES OR Gate
DAY3 DATE 28-3-18	Indistinguishability of identical particles	LOGIC GATES NOT Gate
DAY4 DATE 29-3-18	**HOLIDAY**	
DAY5 DATE 30-3-18	**……**	GRAIN MOISTURE DIGITAL Moisture Meter
DAY7 DATE 2-4-18	Symmetry of wave functions with Spin and statistics	LOGIC GATES AND Gate
DAY8 DATE 3-4-18	Pauli exclusion principle	LOGIC GATES OR Gate
DAY9 DATE 4-4-18	Construction of spin functions for two electron systems	LOGIC GATES: NOT Gate
DAY10 DATE 5-4-18	**……**	GRAIN MOISTURE: ANALOG Moisture Meter
DAY11 DATE 6-4-18	**……**	GRAIN MOISTURE: DIGITAL Moisture Meter
DAY13 DATE 9-4-18	Consequences of symmetry effects in the study of He-atom problem	LOGIC GATES: AND Gate
DAY14 DATE 10-4-18	Interaction of field and matter with expression for equation of motion	LOGIC GATES OR Gate
DAY15 DATE 11-4-18	Concept of force and motion along with circular and crossed-field motion	LOGIC GATES NOT Gate

DAY16 DATE 12-4-18	**……**	GRAIN MOISTURE ANALOG Moisture Meter
DAY17 DATE 13-4-18	**……**	GRAIN MOISTURE DIGITAL Moisture Meter
DAY18 DATE 14-4-18	**HOLIDAY**	**……**
DAY19 DATE 16-4-18	Frequency response of dielectrics	LOGIC GATES AND Gate
DAY20 DATE 17-4-18	TE and TM waves in rectangular and circular waveguides	LOGIC GATES OR Gate
DAY21 DATE 18-4-18	**HOLIDAY**	
DAY22 DATE 19-4-18	**……**	GRAIN MOISTURE ANALOG Moisture Meter
DAY23 DATE 20-4-18	**……**	GRAIN MOISTURE: DIGITAL Moisture Meter

SAVITA RANI
NAME OF TEACHER