

 <b>VITS, BHOPAL</b>		<b>VAISHNAVI INSTITUTE OF TECHNOLOGY &amp; SCIENCE</b>  <b>DEPT. NAME: BASIC SCIENCE</b>  <u><b>LECTURE PLAN</b></u>	<b>FORM NO</b>	<b>VITS/A/001</b>
<b>BRANCH</b>	<b>ME/CE/CSE/EE</b>		<b>REV. NO</b>	<b>01</b>
<b>SEMESTER</b>	<b>I/II</b>		<b>REV. DT</b>	<b>18/07/2018</b>
<b>NAME OF FACULTY: ROSHNI PAWAR</b>  <b>SUBJECT: ENGINEERING PHYSICS</b>  <b>CODE : BT-201</b>				

### **ASSIGNMENT-1**

1. **EXPLAIN QUANTUM MECHANICS?**
2. **RELATION BETWEEN PHASE AND GROUP VELOCITY?**
3. **EXPLAIN UNCERTAINTY PRINCIPLE?**
4. **EXPLAIN FREE PARTICLE WAVE FUNCTION?**
5. **EXPLAIN SCHRÖDINGER WAVE EQUATIONS?**

### **ASSIGNMENT-2**

1. **EXPLAIN FARUNHOFER DIFFRACTION?**
2. **DEFINE INTERFERENCE IN THIN FILM?**
3. **EXPLAIN NEWTON'S RING?**
4. **EXPLAIN MICHELSON'S INTERFEROMETER?**
5. **EXPLAIN DIFFRACTION AT SINGLE DOUBLE AND N SLIT?**

### **ASSIGNMENT-3**

- 1. EXPLAIN KRONING PENNEY MODEL?**
- 2. EXPAIN SOLAR CELL?**
- 3. EXPLAIN ENERGY BAND?**
- 4. EXPLAIN ZENER DIODE?**
- 5. EXPLAIN HALL EFFECT?**

### **ASSIGNMENT-4**

- 1. EXPLAIN LASER AND IT'S PROPERTIES?**
- 2. EXPLAIN WORKING OF RUBY LASER?**
- 3. EXPLAIN CONSTRUCTION AND WORKING OF HE-NE LASER?**
- 4. EXPLAIN OPTICAL FIBRE?**
- 5. PROPAGATION OF LIGHT THROUGH STEP INDEX FIBRE?**

### **ASSIGNMENT-5**

- 1. EXPLAIN ELECTRIC FIELD?**
- 2. EXPLAIN ELECTROSTATIC POTENTIAL FOR A CHARGE DISTRIBUTION?**
- 3. EXPLAIN CONTINUITY EQUATION FOR CURRENT DENSITIES?**
- 4. EXPLAIN POYNTING VECTOR?**
- 5. EXPLAIN STOKES' THEOREM?**