

**LOK JAGRUTI UNIVERSITY (LJU)**  
**INSTITUTE OF ENGINEERING & TECHNOLOGY**

**Department of Computer Engineering (701)**

**Bachelor of Engineering (B.E.) – Semester – I**

<b>Course Code:</b>	<b>017012193</b>
<b>Course Name:</b>	<b>Computer Workshop - Laboratory</b>
<b>Category of Course:</b>	Engineering Science (ESC)
<b>Prerequisite Course:</b>	---

<b>Teaching Scheme</b>			
<b>Lecture (L)</b>	<b>Tutorial (T)</b>	<b>Practical (P)</b>	<b>Credit</b>
<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>

<b>Sr No.</b>	<b>Practical Title</b>	<b>Link to Theory Syllabus</b>
1	Introduction to various components of computer, Input / Output devices.	--
2	BIOS/UEFI settings	--
3	Basics and Installation of operating system, concept of dual booting, virtualization	--
4	Installation of device drivers and other required software, need and method of backup	--
5	Basic security issues: computer viruses, malware, etc., anti-virus software	--
6	Various office tools for text, spreadsheet and presentation documents	--
7	Introduction to various online tools for forms, documents, storage, etc.	--
8	Basic concepts of networking and resource sharing in a network	--

<b>Major Components/ Equipment</b>		
<b>Sr. No.</b>	<b>Component/Equipment</b>	<b>Specification</b>
1	Computer	
2	Software's	MS Office, IP Messenger, Windows OS

<b>Proposed Theory + Practical Evaluation Scheme by Academicians</b> <b>(% Weightage Category Wise and it's Marks Distribution)</b>						
<b>L :</b>	<b>0</b>	<b>T:</b>	<b>0</b>	<b>P:</b>	<b>4</b>	
<b>Note : In Theory Group, Total 4 Test (T1+T2+T3+T4) will be conducted for each subject. Each Test will be of 25 Marks. Each Test Syllabus Weightage: Range should be 20% - 30%</b>						
<b>Group (Theory or Practical)</b>	<b>Group (Theory or Practical) Credit</b>	<b>Total Subject Credit</b>	<b>Category</b>	<b>% Weightage</b>	<b>Marks Weightage</b>	
Theory	<b>0</b>	<b>2</b>	MCQ	0%	0	
Theory			Theory Descriptive	0%	0	
Theory			Formulas and Derivation	0%	0	
Theory			Numerical	0%	0	
<b>Expected Theory %</b>	<b>0%</b>			<b>Calculated Theory %</b>	<b>0%</b>	<b>0</b>
Practical	<b>2</b>		Individual Project	0%	0	
Practical			Group Project	0%	0	
Practical			Internal Practical Evaluation (IPE)	0%	0	
Practical			Viva	20%	20	
Practical			Seminar	80%	80	
<b>Expected Practical %</b>	<b>100%</b>		<b>Calculated Practical %</b>	<b>100%</b>	<b>100</b>	
<b>Overall %</b>	<b>100%</b>			<b>100%</b>	<b>100</b>	

<b>Course Outcome</b>	
	<i>Upon completion of the course students will be able to</i>
CO1	Understand basics of computer hardware
CO2	Install operating systems, drivers related to hardware and other software
CO3	Create reports, presentation, and spread sheets
CO4	Manage security related basic problem using anti-virus software
<b>Suggested Reference Books</b>	

1	Scott Mueller, "Upgrading and repairing PCs", 21st Edition; Pearson Education.
2	Stephen J Bigelow, "Troubleshooting, Maintaining and Repairing PCs", 5th Edition; Tata McGrawHill Publication
3	M.Radhakrishnan and D. Balasubramanian, "Computer Installation and Troubleshooting" ISTE Learning Material.

<b>List of Open Source Software/Learning website</b>
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1	<a href="http://www.youtube.com">www.youtube.com</a>
2	<a href="http://www.wikihow.com">www.wikihow.com</a>
3	<a href="http://www.tomsguide.com">www.tomsguide.com</a>
4	<a href="http://www.tutorialspoint.com">www.tutorialspoint.com</a>
5	<a href="http://www.makeuseof.com">www.makeuseof.com</a>