LOK JAGRUTI UNIVERSITY (LJU)

INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Artificial Intelligence and Machine Learning (704)

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

Course Code:	**017042193**
Course Name:	**Computer Workshop - Laboratory**
Category of Course:	Engineering Science (ESC)
Prerequisite Course:	---

Teaching Scheme			
Lecture (L)	**Tutorial (T)**	**Practical (P)**	**Credit**
0	**0**	**4**	**2**

Sr No.	Practical Title	Link to Theory Syllabus
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	--

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

Proposed Theory + Practical Evaluation Scheme by Academicians
(% Weightage Category Wise and it's Marks Distribution)

L :	**0**	**T:**	**0**	**P:**	**4**

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%

Group (Theory or Practical)	Group (Theory or Practical) Credit	Total Subject Credit	Category	% Weightage	Marks Weightage
Theory	**0**	**2**	MCQ	0%	0
Theory			Theory Descriptive	0%	0
Theory			Formulas and Derivation	0%	0
Theory			Numerical	0%	0
Expected Theory %	**0%**		**Calculated Theory %**	**0%**	**0**
Practical	**2**		Individual Project	0%	0
Practical			Group Project	0%	0
Practical			Internal Practical Evaluation (IPE)	0%	0
Practical			Viva	20%	20
Practical			Seminar	80%	80
Expected Practical %	**100%**		**Calculated Practical %**	**100%**	**100**
Overall %	**100%**			**100%**	**100**

Course Outcome	
	Upon completion of the course students will be able to
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

Suggested Reference Books

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.

List of Open Source Software/Learning website	
1	www.youtube.com
2	www.wikihow.com
3	www.tomsguide.com
4	www.tutorialspoint.com
5	www.makeuseof.com