G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women)

(AUTONOMOUS) Shaikpet, HYDERABAD - 500 104

B. Tech. I Year

ENGINEERING WORKSHOP

(Common to EEE, ECE, CSE, IT & ETE)

Prerequisites: -

Course Objectives:

The course will enable the students

- 1. To study of different hand operated Power Tools, uses and their demonstration.
- 2. To gain a good basic working knowledge required for the production of various engineering products.
- 3. To provide hands on experience about use of different engineering materials, tools, equipments and processes those are common in the Engineering field.
- 4. To develop a right attitude, team working, precision and safety at work place.
- 5. To study commonly used carpentry joints.
- 6. To have practical exposure to various welding and joining processes.

I)	TRADES FOR EXERCISES: (~ 12 Lecture Hours and 36 Practices)		
	At le	east two exercises from each trade:	12)
	i)	Carpentry	13) beleddy
	ii)	Fitting	
	iii)	Tin-Smithy and Development of jobs car	ried out and Soldering
	iv)	House-wiring	14) PM
	v)	Foundry	100 100
	vi)	Black smithy	15) NOSA
II)	TRADES FOR DEMONSTRATION and EXPOSURE: (~ 12 Lecture Hours)		
	i)	Plumbing	16) R. Balasubrym
	;;)	Machine Chan	16)

- Plumbing ii) Machine Shop
- iii) Wood Turning
- iv) Welding

Text Books:

1. B.L. Juneja, Workshop Practice, Cengage publications.

2. K. Venugopal, Workshop Manual, Anuradha Publications.

Reference Books:

1. P. Kannaiah & K. L. Narayana, Workshop manual, 2nd Edition, Scitech publications (I) Pvt. Ltd., Hyderabad.

2. K. Venugopal, Dr. V. Prabhu Raja, G. Sreekanjana "Workshop

Manual" 1 st Edition, Anuradha Publications 2012 3. Hajra Choudury S.K., Hajra Choudury A.K. and Nirjhar Roy S.K., Elements of Workshop technology, voll 2008 and Vol II 2010, Media Promoters and Publishers private limited, Mumbai.

Online Resources:

1. www.technologystudent.com

Course Outcomes:

At the end of the course, the students will be able to

1. Demonstrate and understand the Engineering workshop safety

2. Identify and use marking tools, measuring equipment and to work to prescribed accuracies.

3. Know various operations in basic engineering workshops.

4. Understand the practical difficulties encountered in industries during any assembly work.

5. Do simple electrical work through their carrier.

6. Design different prototype in the fittings, carpentry, foundry, black smithy and sheet metal work.

