Department of Freshman Engineering

Basic Workshop

| Course Code20ES1153YearISemesterCodeEngineering ScienceBranchMECourse TypeCategoryScienceI-T-P1-0-4PrerequisitesCredits3L-T-P1-0-4PrerequisitesContinuous15Semester End Evaluation35Total MarksInternal EvaluationEvaluationMarksUpon successful completion of the course, the student will be able toCO1Study and practice on basic hand tools and their operations. (L3)CO2Practice on manufacturing of components using workshop trades including Tin sm and carpentry. (L3)CO3Apply basic electrical engineering knowledge for house wiring and soldering practice | | 1 | | | |
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| CO4 Demonstrate basic concepts of software installations, operating systems and networking | ang. (I | _3) | | | |
| Contribution of Course Outcomes towards achievement of Program Outcomes | s & | | | | |
| Strength of correlations (3:High, 2: Medium, 1:Low) | | | | | |
| | PSO1 | PSO2 | | | |
| CO1 3 2 2 2 2 3 2 2 | 3 | 2 | | | |
| CO2 3 2 2 3 2 2 | 3 | 2 | | | |
| CO3 3 2 3 2 2 | 3 | $\frac{2}{2}$ | | | |
| CO4 3 2 2 2 2 2 | 3 | Z | | | |
| Syllabus | | 1.003 | | | |
| | Mapped | | | | |
| 1 Familiarity with different types of woods and tools used in wood working and make following joints | | | | | |
| | | | | | |
| 2. Mortise and Tenon joint. | CO CC | , | | | |
| 3. Corner Dovetail joint or Bridle joint. | | | | | |
| 2 Familiarity with different types of tools used in sheet metal | | | | | |
| working, Developments of following sheet metal job from GI sheets | | | | | |
| 1. Tapered tray | CO | 11 | | | |
| 2. Conical funnel | CC | , | | | |
| 3. Elbow pipe | | ,2 | | | |
| 3 Familiarity with different types of tools used in fitting and do the | | | | | |
| following fitting exercises | | | | | |
| 1. V-fit 2. Deveteil fit | CO1, | | | | |
| Dovetail fit Semi-circular fit | | 02 | | | |
| 4. Bicycle tire puncture and change of two wheeler tire | | | | | |
| 4 Familiarities with different types of basic electrical circuits and | | | | | |
| make the following connections | | | | | |
| 1. Preparation of a circuit for Parallel and series connection. | CC | 11 | | | |
| 2. Preparation of a circuit for Go down lighting using Two-way | CO1, CO3 | | | | |
| switch to connect tube light. | | | | | |
| 3. Soldering of wires | | | | | |

PVP20

Department of Freshman Engineering

| 5 | Students have to be given a PC which does not boot due to improper assembly or defective peripherals. They should identify the problem and fix it to get the computer back to working condition. Installation of MS-Windows and Linux. Connection of LAN and access the Internet, Configuration of TCP/IP setting and access of websites and email. Exploring MS-Word and sample tasks. Document creation and editing text documents in your web browser using Google docs. | CO4 | | | |
|-----------|---|-----|--|--|--|
| | Learning Resources | | | | |
| Text Bool | Text Books | | | | |
| 1. W | 1. Work shop Manual - P.Kannaiah/ K.L.Narayana/ Scitech Publishers. | | | | |
| 2. W | orkshop Manual / Venkat Reddy/ BS Publications/Sixth Edition. | | | | |

PVP20