



INNOVATIVE TEACHING- Active Learning

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Active learning

Course title: Machine Drawing

Topic for which this activity was designed: Teaching of sleeve and cotter joint

Strategy :

- 5 minutes general theory behind the concepts
- 5 minutes practical applications of the sleeve and cotter joint
- 5 minutes discussion on how to draw various views of the components
- 5 minutes for global learners to preconceive the sketch
- 10 minutes showing macro model and demo
- 20 minutes (for four batches each will have five minutes) for assembly and disassembly

Active learning

Strategy implementation

- Initially the need and practical significance of the general joint will be addressed without mentioning the content what we are going to be learn.
- Then specific practical application of the sleeve and cotter joint will be mentioned
- Then students will be asked to do the rough sketch of the part based on their own understanding

Active learning

- Here the global learners are having freedom to think and have broad outlook of the joint and they will try to sketch on their own.
- After 10 minutes students are asked to explain what they have done.
- Few of them will do nothing
- Then the macro model will be shown to the students and proper explanation and calculation will be shown
- To address the active learning part, the students will be allowed to do assembly and disassembly of the joint.

Active learning teaching aid

SLEEVE AND COTTER JOINT



Active learning teaching aid

GIB AND COTTER JOINT



Active learning teaching aid

COUPLINGS



Active learning teaching aid

UNIVERSAL COUPLING



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Thank you