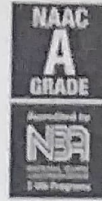




# SAVEETHA ENGINEERING COLLEGE

**AUTONOMOUS**



Affiliated to Anna University | Approved by AICTE

DEPARTMENT OF MECHANICAL ENGINEERING

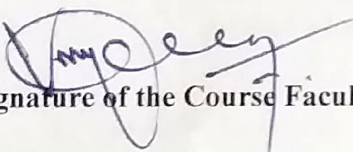
ACTIVITY BASED LEARNING

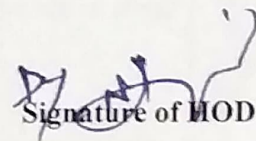
ACADEMIC YEAR 2020-21

Course Code & Course Title : 19ME302 & ENGINEERING DRAWING  
 Year/Sem/Branch : I/I/COMMON TO ALL (except Mech, Civil, Agri)  
 Faculty : Dr MUTHUKUMAR V  
 Designation : PROFESSOR  
 Unit Title : *FREE HAND SKETCHING*  
 Topic : Freehand sketching of engineering components  
 LO : The learners should able to Sketch by free hand the orthographic views from the given pictorial view with its engineering applications  
 Bloom's Taxonomy Level : APPLY-K3

S.No.	Title	Description
1	Concept	The learners must able to Sketch by free hand the orthographic views from the given pictorial view with its engineering applications
2	Challenges Faced	<ol style="list-style-type: none"> <li>1. At the beginning of the classroom teaching, teachers need to invest a lot of energy and time to adapt to the new teaching methods, change the mode of thinking, and carefully prepare the teaching materials.</li> <li>2. Some learners were not interested in this activity, Then proper counseling with providing brief guidelines/procedure to perform each activity.</li> </ol>
3	Name of the Activity	<b>BY MAKING MODEL</b>
4	Description of the Activity	<ol style="list-style-type: none"> <li>1. Implemented by making model method for drawing the Free hand sketching of engineering component.</li> <li>2. The students are required to make their own models before the class, apply what they learn in the classroom, and work with other students, which then makes it possible to get immediate feedback from the instructor.</li> <li>3. Moodle &amp; mobile-based learning management system was used to share resources such as (i) e-text (ii) Videos (iii) Self assessments and (iv) links for references and further readings through WhatsApp.</li> <li>4. Created youtube channel and successfully uploaded the recorded learning video titled "Free Hand Sketching". Link:</li> </ol>

		<a href="https://www.youtube.com/watch?v=hpbzPkNL-Gs">https://www.youtube.com/watch?v=hpbzPkNL-Gs</a> 26,440 views, 711 subscribers
5	<b>Feedback from Learners (Consolidated)</b>	<ul style="list-style-type: none"> <li>Feedback is collected from the student. Proof attached.</li> </ul>
6	<b>Feedback of the Faculty about this activity</b>	<ul style="list-style-type: none"> <li>By making model method is a good supplement to the shortcomings of the existing ED teaching methods, so that teachers can have a lot of time to guide the students' drawing, exercises and other practical activities in the classroom.</li> <li>The results show that the students who have been taught by making the model can understand the free hand sketch concept easily and perform better than traditional one.</li> <li>Providing brief guidelines/procedure with proper motivation boost up the students to perform each activity.</li> </ul>

  
 Signature of the Course Faculty

  
 Signature of HOD

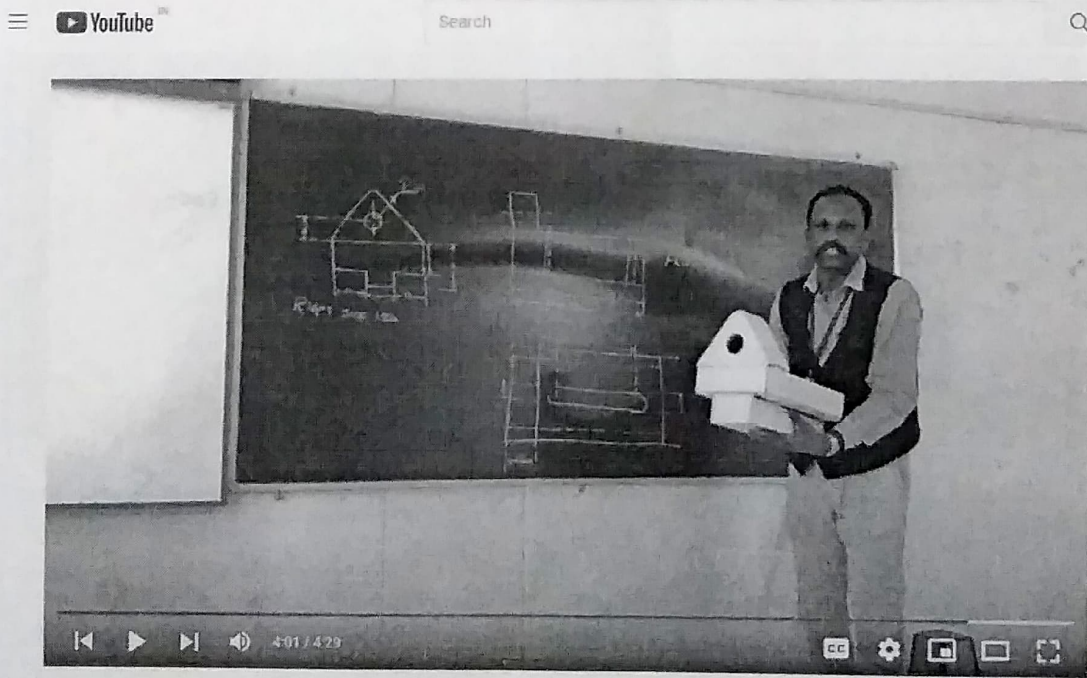
**Evidences/Proofs (To be attached along with this document)-Mandatory**

{Photos taken during activity (or) Documents collected from Students (Charts, Crossword puzzles, Cards etc.,)}

SL. NO	CONTENT	LINK
1	You tube video on Free Hand Sketching of orthographic views from physical Model - Example 1	<a href="https://www.youtube.com/watch?v=hpbzPkNL-Gs&amp;list=PL0Fu9UMMu0ooIIQ7NIIhkl4&amp;index">https://www.youtube.com/watch?v=hpbzPkNL-Gs&amp;list=PL0Fu9UMMu0ooIIQ7NIIhkl4&amp;index</a>
2	You tube video on Free Hand Sketching of orthographic views from physical Model - Example 2	<a href="https://www.youtube.com/watch?v=mu0eAEw&amp;list=PL0Fu9UMMu0ooIIQ7NIIhkl4&amp;index">https://www.youtube.com/watch?v=mu0eAEw&amp;list=PL0Fu9UMMu0ooIIQ7NIIhkl4&amp;index</a>
3	You tube video on Free Hand Sketching of orthographic views from physical Model - Example 3	<a href="https://www.youtube.com/watch?v=pl0JjJg&amp;list=PL0Fu9UMMu0ooIIQ7NIIhkl4&amp;index">https://www.youtube.com/watch?v=pl0JjJg&amp;list=PL0Fu9UMMu0ooIIQ7NIIhkl4&amp;index</a>
4	You tube video on Free Hand Sketching of orthographic views from	<a href="https://www.youtube.com/watch?v=pl0JjJg&amp;list=PL0Fu9UMMu0ooIIQ7NIIhkl4&amp;index">https://www.youtube.com/watch?v=pl0JjJg&amp;list=PL0Fu9UMMu0ooIIQ7NIIhkl4&amp;index</a>

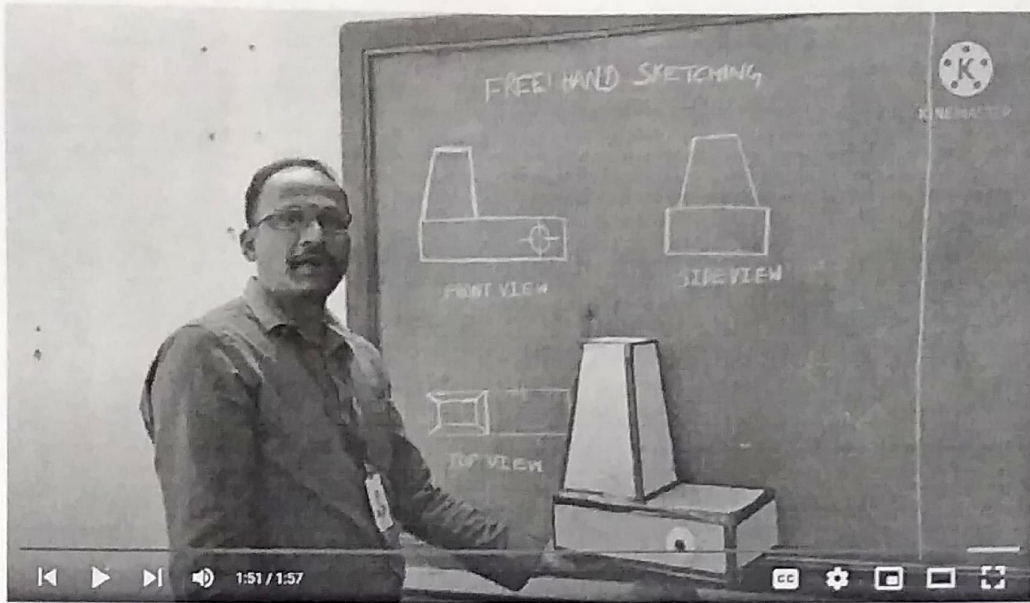


	physical Model - Example 4	<a href="https://www.youtube.com/watch?v=1MHNU&amp;list=PLgMa-9UMMu0ooIIQ7NIIhkl4&amp;index">om/watch?v=1MHNU&amp;list=PLgMa-9UMMu0ooIIQ7NIIhkl4&amp;index</a>
5	You tube video on Free Hand Sketching of orthographic views from physical Model - Example 5	<a href="https://www.youtube.com/watch?v=-bMslTArzcg&amp;list=PL0Fu0gMa-9UMMu0ooIIQ7NIIhkl4&amp;index">https://www.youtube.com/watch?v=-bMslTArzcg&amp;list=PL0Fu0gMa-9UMMu0ooIIQ7NIIhkl4&amp;index</a>
6	You tube video on Free Hand Sketching of orthographic views from physical Model - Example 6	<a href="https://www.youtube.com/watch?v=KluwUQ&amp;list=PLMa-9UMMu0ooIIQ7NIIhkl4&amp;index">https://www.youtube.com/watch?v=KluwUQ&amp;list=PLMa-9UMMu0ooIIQ7NIIhkl4&amp;index</a>
7	You tube video on Free Hand Sketching of orthographic views from physical Model - Example 7	<a href="https://www.youtube.com/watch?v=jQSp70&amp;list=PL0Ma-9UMMu0ooIIQ7NIIhkl4&amp;index">https://www.youtube.com/watch?v=jQSp70&amp;list=PL0Ma-9UMMu0ooIIQ7NIIhkl4&amp;index</a>



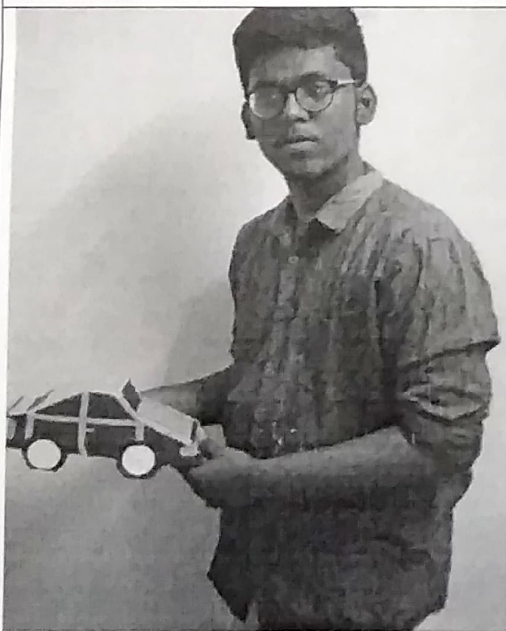
Free Hand Sketching

Save

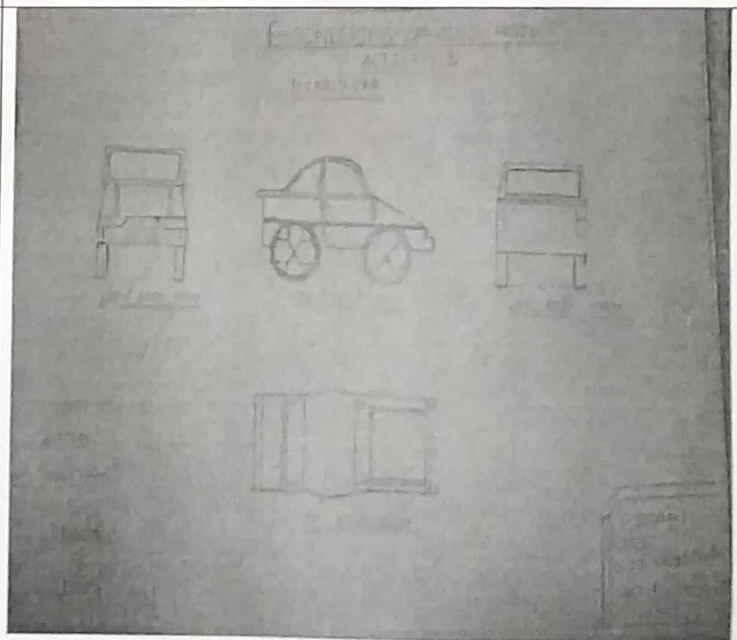


Drawing of orthographic views from physical Model by free hand sketching - Example 5

**Model**



**Freehand sketching views - solution**





## FEEDBACK FORM

(\*) By making this model, I can understand Orthogonal projection of objects.

(\*) It gives more clarity about front view, side view and top view.

(\*) This Model advises me to make some other innovative projects.

(\*) I gain more knowledge about old telephone models.

THANK YOU . . .