



**K S RANGASAMY COLLEGE OF TECHNOLOGY**  
**Tiruchengode – 637215**  
**(An Autonomous Institution, Affiliated to Anna University, Chennai)**  
**DEPARTMENT OF MECHANICAL ENGINEERING**



Flipped Class			
<b>Programme &amp; Branch</b>	<b>B.E. &amp; Mechanical Engineering</b>	<b>Year/Sem/Sec</b>	<b>III / V / A</b>
<b>Course Code &amp; Name</b>	<b>50 ME 503 – Design of Machine Elements</b>	<b>Date</b>	<b>08.11.2022</b>

The students are informed to watch the video by the link <https://youtu.be/Qn6irCeqRnQ?t=407>. The video is covering the topic of introduction of bearing and there will be an activity on the same topic on 09.11.2022 (3<sup>rd</sup> Hour) in our classroom.

**Course Instructor**  
**(Mr.B.Balaji)**



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**Flipped Class Activity Report**

<b>Programme &amp; Branch</b>	<b>B.E. &amp; Mechanical Engineering</b>	<b>Year/Sem/Sec</b>	<b>III / V / A</b>
<b>Course Code &amp; Name</b>	<b>50 ME 503 – Design of Machine Elements</b>	<b>Date Hour</b>	<b>09.11.2022 3<sup>rd</sup> Hour</b>

**Questions:**

- 1) List the function of bearing.
- 2) \_\_\_\_\_ bearing is the load acting at right angles to the bearing axis
- 3) \_\_\_\_\_ bearing is the load acting along the bearing axis.
- 4) Lubrication is required in sliding contact bearing, Justify?
- 5) Name the bearing that has more number of parts and also list the parts.

The above questions have been asked to the students and they shared their answers. All the students answered questions no.1, no.2 and no.3 correctly. But few students only answered questions no.4 and no.5 correctly. So, I discussed the non-answered topic in the classroom.

**Course Instructor**  
(Mr.B.Balaji)

**Module Coordinator**  
(Dr.S.Jeyaprakasam)



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Flipped Class questions and answers			
<b>Programme &amp; Branch</b>	<b>B.E. &amp; Mechanical Engineering</b>	<b>Year/Sem/Sec</b>	<b>III / V / A</b>
<b>Course Code &amp; Name</b>	<b>50 ME 503 – Design of Machine Elements</b>	<b>Date Hour</b>	<b>09.11.2022 3<sup>rd</sup> Hour</b>

**Questions and Answers:**

1) List the function of bearing.

- Support the moving machine element (shaft).
- It permits a relative motion between the contact surfaces of the members.
- Reduce friction and make rotation more smooth

2) Radial bearing is the load acting at right angles to the bearing axis

3) Thrust bearing is the load acting along the bearing axis.

4) Lubrication is required in sliding contact bearing, Justify?

Yes, Lubrication is required in sliding contact bearing.

Sliding actions between the shaft and bearing create wear and friction and this has been reduced by the lubrication oil.

5) Name the bearing that has more number of parts and also list the parts.

Roller bearing has more number of parts. They are inner race, ball, cage and outer race.

**Course Instructor**

(Mr.B.Balaji)

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