



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

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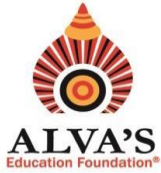
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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

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DEPARTMENT OF MECHANICAL ENGINEERING

HOW TO BUILD HYPOTHESIS IN ENGINEERING, MANAGEMENT & SCIENCE BASED
RESEARCH



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TECHNICAL TALK REPORT

Objectives of the Technical talk:

Technical talks in engineering colleges serve several important objectives, both for students and faculty. These talks are designed to provide a platform for students to gain knowledge, exposure, and insights into various technical subjects and emerging trends in engineering. Here are the main objectives of technical talks in engineering colleges:

1. Technical talks are a means to disseminate knowledge on a wide range of topics, including new technologies, engineering innovations, and research findings.
2. These talk / interactions help students and faculty stay updated with the latest developments in their respective fields.
3. Technical talks enhance the educational experience by providing students with the opportunity to learn from experts in the field. These talks can cover topics beyond the curriculum and practical understanding of engineering concepts.
4. Inviting accomplished professionals and researchers as speakers can inspire students to set higher goals



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HOW TO BUILD HYPOTHESIS IN ENGINEERING, MANAGEMENT & SCIENCE BASED RESEARCH

Mode: OFFLINE

Date: 12/06/23

Resource Person: Dr.Lewlyn L.R. Rodrigues

Rtd. Professor ,

Dept. of Humanities & Management , MIT, Manipal

Outcomes :

- 1.Students understood how to build hypothesis in engineering projects
2. Students showed interest towards research



Department of Mechanical Engineering organized a Research Methodology talk on ‘Hypothesis Building ’on 12/06/2023. The session was handled by Prof. Dr. Lewlyn L. Raj Rodrigues

He explained how Hypothesis Formulation is need to be conducted what are the learning objectives & he listed following points as learning objectives

Learning Objectives:

- 1) How to think like a researcher
- 2) Know the meaning & role of hypothesis in research
- 3) Comprehend criteria for hypothesis formulation
- 4) Identify the need for having a hypothesis in research
- 5) Understand characteristics types & concepts of hypothesis and test
- 6) Appreciate the decision rule in hypothesis testing
- 7) Exercise on hypothesis building



He also listed out the Criteria For Hypothesis Formulation which included Standards to be met in formulating a hypothesis It should be empirically testable, whether it is right or wrong

It should be specific and precise The statement in the hypothesis should not be contradictory
It should specify variables between which the relationship is to be established It should
describe only one issue.

He also Emphasized the Need for having Working Hypothesis citing valid reasons for the same
Gives a definite point to the investigation Specifies the sources of data, which shall be studied
in the right context Determines the data needs Suggests what type of research is likely to be
more appropriate Determines the most appropriate technique of analysis Contributes to the
development of theory.

Characteristics of Good Hypothesis:

- Conceptual Clarity
- Specificity
- Testability
- Availability of Techniques
- Theoretical relevance
- Consistency
- Objectivity
- Simplicity.





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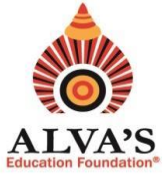
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Testing of Hypothesis – Limitations:

- The tests are only useful aids for decision-making. Hence, “proper interpretation of statistical evidence” is important to intelligent decisions.
- Test do not explain the reasons as to why does the difference exist, say between the means of the two samples.
- Results of significance tests are based on probabilities and as such cannot be expressed with full certainty.
- Statistical inferences based on the significance tests cannot be said to be entirely correct evidences concerning the truth of the hypotheses, especially in small samples. For greater reliability, the size of samples be sufficiently enlarged.

Hence, in problems of statistical significance, the inference techniques (or the tests) must be combined with adequate knowledge of the subject-matter along with the ability of good judgement.





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Conclusion:

hypothesis building is an essential process in scientific inquiry and research. It involves formulating educated guesses or predictions based on existing knowledge, observations, and logical reasoning. The primary purpose of hypothesis building is to guide and structure research investigations, enabling scientists to test and validate their ideas.

ANNEXURE



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Date -05/06/23

To

IQAC Chairman

AIET, Mijar

Respected Sir

Sub: Requesting for permission conduct a Technical talk

We are happy to inform you that Department of Mechanical Engineering, is planning to organize a technical talk on 12/06/23 The details are mentioned below, kindly request you do the needful.

Resource Person Details

Name: **Dr.Lewlyn L.R. Rodrigues**

Designation: **Professor, Dept. of Humanities & Management , MIT, Manipal**

Title : **HOW TO BUILD HYPOTHESIS IN ENGINEERING, MANAGEMENT & SCIENCE
BASED RESEARCH**

Venue: **CAMD lab**

Date/month/year: **12/06/23**

Mode : **OFFLINE**



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Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225



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Aiet/Mech/AY2022-23/015

Date-5/06/23

CIRCULAR

All the students from Department of Mechanical Engineering, are hereby informed to attend the Technical Talk by **Dr. Lewlyn L.R. Rodrigues Professor, Dept. of Humanities & Management, MIT, Manipal**


Date: 12/06/23

Time: 03:00 pm-05:00 pm

**Title of the Talk: HOW TO BUILD HYPOTHESIS IN ENGINEERING,
MANAGEMENT & SCIENCE BASED RESEARCH**

Venue : CAMD lab,

MODE: OFFLINE


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Principal table/Deans/HODs/AO/Office/---



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DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY ATTENDANCE LIST

Sl.No.	Faculty Name	Signature
1	Dr. Satyanarayana	
2	Mr. Veerendra kumar	
3	Mr. Sharathchandra Prabhu	
4	Dr. G. B. Vaggar	
5	Mr. Hemanth Suvarna	
6	Mr. Suresh P S	
7	Mr. Sadashiv Bellubbi	
8	Mr. Kiran C H	
9	Mr. Pramod Badyankal	
10	Mr. M.R. Ganesh	
11	Mr. Kumar Swamy M.C	
12	Mr. Gopal Krishna U.B	
13	Mr. Deepak Kothari	
14	Mr. Srinivas C S	
15	Mr. Pramod kumar N	
16	Mr. Praveen K C	
17	Mr. Sudheer PN	

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DEPARTMENT OF MECHANICAL ENGINEERING

STUDENT ATTENDANCE LIST

Semester : 6th semester

Sl no.	Name	USN	Sign
1	ADHWITH	4AL20ME001	Adwitya..
2	AKSHAR N	4AL20ME002	Akshar N
3	BABUGOUDA SHANKARAGOUDA	4AL20ME003	Babugouda
4	CHANDAN BHOSALE	4AL20ME004	Chandan
5	CH'RANTH H S	4AL20ME006	Chanth H S
6	DILEEP P R	4AL20ME007	Dileep P.R.
7	FRISON NIKHIL MARTIS	4AL20ME008	Frison
8	GIRISH B BANNIKOPPA	4AL20ME009	Girish B
9	JENNY FERNANDES	4AL20ME011	Jenny
10	MANOJ KUMAR KARNAM	4AL20ME012	Manoj K
11	MANU K N	4AL20ME013	Manu K N
12	MOHAMMED SWAHID	4AL20ME014	M. Swahid
13	MOHAMMED FAHAD H	4AL20ME015	Mohammed
14	NAVYASHREE H B	4AL20ME016	Navyashree
15	PALLAVI P	4AL20ME017	Pallavi P
16	PAVANKUMAR H R	4AL20ME018	Pavankumar H.R.
17	RAKSHITH S	4AL20ME019	Rakshith S
18	VARUN S BHANDARY	4AL20ME021	Varun S
19	VIGNESH	4AL20ME022	Vignesh
20	DODDAMALLAIAH	4AL21ME400	Doddamalliah
21	RAHUL KUMBAR	4AL21ME401	Rahul K
22	RAKESH KELAGADE	4AL21ME402	Rakesh Kelagade
23	SACHIN RATHOD	4AL21ME403	Sachin Rathod
24	SANDEEP JARALE	4AL21ME404	Sandeep Jarale



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Semester : 4th semester

Sl no.	Name	USN	Sign
1	AJITH R	4AL21ME001	
2	AKHIL SHARMA K	4AL21ME002	
3	AKSHAY KRISHNA M	4AL21ME003	
4	CHARAN KUMAR	4AL21ME004	
5	DHARSHITH A	4AL21ME005	
6	MELVIN VINAY SERA	4AL21ME006	
7	MOHAMMAD SWALIH	4AL21ME007	
8	NARAYAN V	4AL21ME008	
9	NAVANEETH H SHETTY	4AL21ME009	
10	NITHIN M	4AL21ME010	
11	PAIGAMBAR S NADAF	4AL21ME011	
12	HASHWATH R GOWDA	4AL21ME013	
13	SUDESH D SHETTY	4AL21ME015	
14	KARTHIK VISWANATH DHANNUR	4AL22ME401	
15	PRAVEEN VEERAPPA CHAVADI	4AL22ME402	
17	KRISHNA KYADGIHALLI	4AL22ME403	
18	KARTHIK GOWDA B C	4AL22ME400	

Forum Coordinator

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FEEDBACK FORM

1. Name of the Resource Person: Dr. Lewlyn L.R. Rodrigues

2. Topic of the Technical talk: HOW TO BUILD HYPOTHESIS IN ENGINEERING, MANAGEMENT & SCIENCE BASED RESEARCH

Please give feedback on how well this session met its objectives, indicate your response by putting check mark to relevant box

Sl. No.		Poor	Fair	Good	Very good	Excellent
		1	2	3	4	5
1	Relevance of the topic in today's scenario		13%	5%	55%	27 %
2	Clarity of the presentation		6%	30%	30%	34%
3	The presentation contained Practical examples & useful techniques that can be applied to current work			23%	62%	15%
4	The visual aids were effective				53%	47%
5	The resource person was knowledgeable about the topic & any related issues		2%	10%	39%	49%
6	Resource person clarified all queries			20%	61%	19%
7	How was your overall experience			3%	23%	74%

Any other comments : Participants had few queries regarding maintenance of regular lab.

Action Taken : all queries were answered by the resource person .

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