

### **Requisition Letter**

Date: 01.08.2019

From

The HOD,

Department of Mechanical Engineering,

Bharath Institute of Higher Education and Research,

Selaiyur, Chennai.

To

The Dean Engineering,

Bharath Institute of Higher Education and Research,

Selaiyur, Chennai.

Respected Sir,

Sub: Requisition for conducting Value added course - reg.

School of Mechanical Sciences has planned to conduct Value added course entitled "RESEARCH METHODOLOGY USING REAL WORLD PROJECTS" from 05/08/2019 to 09/08/2019. In this regard we kindly request you to grant permission for the same.

Thanking You

HOD/MECH



Date: 01.08.2019

### **Department of Mechanical Engineering**

### Circular

The of Department of Mechanical Engineering, BIHER is glad to conduct five days value added program entitled "RESEARCH METHODOLOGY USING REAL WORLD PROJECTS" from 05.08.2019 to 09.08.2019 for 30 hours. Those who are interested to participate do register your name to the program coordinator.

The registered students must attend all the classes without fail. The students who have completed the course successfully with good score will get the course completion certificate from the institute/Department.

Resource person: Mr. V. Jose Anand Vino and Mr. Hariharan

Maximum no. of registration Allowed – 60.

Program coordinator

Mr.V.P.Durairaj



### **Department of Mechanical Engineering**

### Research Methodology using Real World Projects

### **OBJECTIVE:**

- The aim of the subject is to provide make the students to understand the Research Methodology using Real World Projects.
- The course aims to introduce undergraduate students to the importance of research methodology and its basic tools. They should be equipped with the ability to understand, and participate in the process of economic research, from problem formulation, sampling, and selection of appropriate tools for analysis.

MODULE 1 (10Hrs)

An introduction to Research methodology: Formulating the Research problems and questions which emerge with the help of examples; Critical Review of Literature on the Research to be conducted: Gaps observed in the past research; Research Design: Qualitative, Quantitative, Macro Study, Case Study, Ethnographic Study; Empirical Research, etc.

MODULE II (5 Hrs)

Data Collection: Sources of Secondary Data, Steps involved in collection of Primary Data - Sampling design, Questionnaire, Interview Method, Observation Method, Focus Group Discussion, etc. Pilot Survey and Modification of Questionnaire if necessary; Data Entry and Cleaning; Coding, Tabulation – preparation of file templates containing variables.

MODULE III (10 Hrs)

Analysis of Data through appropriate Statistical tools and Softwares; Interpretation of results and systematic presentation while preparing research report; Presentation of Qualitative data.

MODULE IV (5 Hrs)

Major Conclusions and Policy issues to be addressed to relevant stakeholders; Preparation of Bibliography and Annexures - Plagiarism detection methods - Referencing methods.



## Department of Mechanical Engineering One Week Value added Program on <u>Research Methodology using Real</u> World Projects"

Date	Morning Session (9 AM – 12 PM)  Afternoon Session (1:30 PM – 4	
05.08.2019	Program Inauguration: Mr. V. Jose Anand Vino An introduction to Research methodology: Formulating the Research problems and questions An introduction to Research methodology: Formulating the Research problems and questions which emerge with the help of examples; Critical Review of Literature on the Research to be conducted: Gaps observed in the past research; Research Design: Qualitative, Quantitative, Macro Study, Case Study, Ethnographic Study; Empirical Research, etc.	- Sampling design, Questionnaire, Interview Method, Observation Method, Focus Group Discussion, etc. Pilot Survey and Modification of Questionnaire if necessary; Data Entry and Cleaning; Coding, Tabulation - preparation of file templates containing
6.08.2019	Dr. R.Hariharan Analysis of Data through appropriate Statistical tools and Softwares; Interpretation of results and systematic presentation while preparing research report; Presentation of Qualitative data.	Mr. V. Jose Anand Vino Major Conclusions and Policy issues to be addressed to relevant stakeholders; Preparation of Bibliography and Annexures - Plagiarism detection methods - Referencing methods.
07.08.2019	Mr. V. Jose Anand Vino Pilot Survey and Modification of Questionnaire if necessary; Data Entry and Cleaning; Coding, Tabulation – preparation of file templates containing variables.	Dr. R.Hariharan Gaps observed in the past research; Research Design: Qualitative, Quantitative, Macro Study, Case Study, Ethnographic Study; Empirical Research, etc
08.08.2019	Dr. R.Hariharan Analysis of Data throug 1 appropriate Statistical tools and Softwares;	Mr. V. Jose Anand Vino Data Entry and Cleaning; Coding, Tabulation – preparation of file templates containing variables
09.08.2019	Mr. V. Jose Anand Vino Sampling design, Questionnaire, Interview Method, Observation Method, Focus Group Discussion, etc. Pilot Survey and Modification of Questionnaire if necessary; An introduction to Research methodology: Formulating the Research problems	examples; Critical Review of Literature on the Research to be conducted: Gaps observed in the past research; Research Design:

### **Program Coordinator:**

Mr.VP.Durairaj Assistant Professor,

E-Mail: vpdurairaj57@gmail.com



### **Attendance sheet**

S.No	Reg.No	Name	Department		
1	U16ME001	PRAVIN K	Mechanical Engineering		
2	U16ME003	BHARATH S	Mechanical Engineering		
3	U16ME004	GIRIDHARAN S	Mechanical Engineering		
4	U16ME005	PRABAKARAN S	Mechanical Engineering		
5	U16ME010	PAVITHRAN P	Mechanical Engineering		
6	U16ME013	ABUBAKKAR M	Mechanical Engineering		
7	U16ME015	HARIHARAN N	Mechanical Engineering		
8	U16ME017	KARTHICK M	Mechanical Engineering		
9	U16ME019	SIDDARTH A	Mechanical Engineering		
10	U16ME020	NISONAN N	Mechanical Engineering		
11	U16ME021	RAJITH R C	Mechanical Engineering		
12	U16ME022	SURIYA RAJ R	Mechanical Engineering		
13	U16ME027	R.UDHAYA KUMAR R	Mechanical Engineering		
14	U16ME028	BANALA RAVI ANISH	Mechanical Engineering		
15	U16ME032	MALARAVAN A	Mechanical Engineering		
16	U16ME034	SHEIK SYBUDEEN M	Mechanical Engineering		
17	U16ME037	THAMIN ANSARI M	Mechanical Engineering		
18	U16ME038	VIGNESH G	Mechanical Engineering		
19	U16ME039	PRADHIP B R	Mechanical Engineering		
20	U16ME040	RAGUL KUMAR S	Mechanical Engineering		
21	U16ME043	AAKASH KAVIN T	Mechanical Engineering		
22	U16ME044	DINESH C	Mechanical Engineering		
23	U16ME045	MUSTAQ AHMED M	Mechanical Engineering		
24	U16ME047	GOWTHAM S	Mechanical Engineering		
25	U16ME048	HEMANTH RAJ R	Mechanical Engineering		
26	U16ME052	SHRIKHANTH R	Mechanical Engineering		
27	U16ME071	SANTHOSH R	Mechanical Engineering		
28	U16ME079	MOHAMMED SHAJI B	Mechanical Engineering		
29	U16ME081	MUKANTHAN T	Mechanical Engineering		
30	U16ME084	SAMPADARAO ASHOK	Mechanical Engineering		
31	U16ME088	GODWIN PRABHU G	Mechanical Engineering		
32	U16ME108	YERRAMSETTI MAHESH BABU .	Mechanical Engineering		
33	U16ME114	REDDYVARI TEJESH	Mechanical Engineering		
34	U16ME123	ABHIJITH A R	Mechanical Engineering		
35	U16ME124	BEENAGONI ANILKUMAR	Mechanical Engineering		

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36	U16ME125	SUJITH H	Mechanical Engineering
37	U16ME126	JAKKAMSETTI BHANU CHAITANYA .	Mechanical Engineering
38	U16ME130	VENKATASRINIVAS M	Mechanical Engineering
39	U16ME132	ASHWIN S	Mechanical Engineering
40	U16ME135	KRISHNAKANTH S	Mechanical Engineering
41	U16ME136	MOHAMMED THAUFEEQ K	Mechanical Engineering
42	U16ME137	DINESHKUMAR S	Mechanical Engineering
43	U16ME141	DEJOEL HAROLD RAYMOND F	Mechanical Engineering
44	U16ME142	JARUPULA REVANTH KUMAR	Mechanical Engineering
45	U16AM020	MERUGU SHIVA SAGAR	Automobile Engineering
46	U16AM021	ANJERI BALU	Automobile Engineering
47	U16AM022	JONATHAN LEVI WILLIAMS S	Automobile Engineering
48	U16AM023	MOHAMED FARIZ	Automobile Engineering
49	U16AM701	B.YASWANTH SAI	Automobile Engineering
50	U16AM702	MOHAMED AZHARUDEEN	Automobile Engineering
51	U16AM703	LAGHUVARAPU SAI SATHISH	Automobile Engineering
52	U16AM704	GUNTAMUKKALA THILAK	Automobile Engineering
53	U16MT014	SARATHKUMAR D	Mechatronics Engineering
54	U16MT015	SOMENDRAN A	Mechatronics Engineering
55	U16MT017	Y MOHAMMED SHAHID SHARIFF	Mechatronics Engineering
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## Sparath Pstitute of Figure Release and Reseaarch

# CERTIFICATE OF PARTICIPATION

This certificate goes to

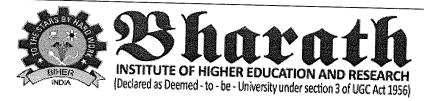
## くこうな ましていなまし

for successfully completing the Value Added Course on "RESEARCH METHODOLOGY USING REAL WORLD PROJECTS" conducted by the School of Mechanical Engineering during the month of August 2019.





HOD MECHANICAL



### FEEDBACK FORM

❖ As part of a continuing improvement process, our college appreciates suggestions and inputs regarding the institution. We request you to sincerely answer these questions under assurance of complete confidentiality. Your interest in making our institution better is greatly appreciated.

S.No	Parameters	Below Average	Average	Good	Excellent	Outstanding
1.	The Topic		7		+	
	The choice of topic was relevant to me				+	V
2.	The Lecturer / Speaker				<b> </b>	
	Self-confidence					1,
	Communication skills				-	1
	Doubts/ queries were answered satisfactorily				<del>                                     </del>	-
3.	The Content (Topic)		***************************************		10)	
	Refers to latest developments in the field					. /
	Career oriented				<u> </u>	
	Innovative learning, if any					
• Or	verall, how would you rate this Guest Lecture / Workshop / Seminourse?    1. Below Average	nar / Ever		lue a	ıdded	[
			9-			

### <u>РНОТО</u>

