



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

Requisition Letter

Date: 20.01.2020

From

The Head of the Department,
Department of Automobile Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai - 73

To

The Dean Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai - 73

Respected Sir,

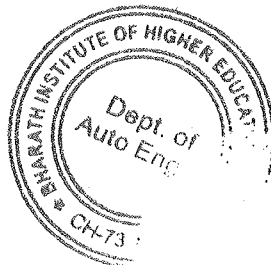
Sub: Requisition for conducting Value added course – reg.

School of Mechanical Engineering has planned to conduct Value added course on “Operation & Programming of CNC Machines” on 17/02/2020. In this regard we kindly request you to grant permission for the same.

Thanking You

HOD/AUTO

Dean Engineering





Sharath

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Department of Automobile Engineering

Date: 05.02.2020

Circular

The of Department of Automobile Engineering, BIHER glad to conduct on five days value added program on “*Operation and Programming of CNC Machines*” from 17.02.2020 for 30 hours. Those who are interested to participate do register your name to the program coordinator.

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

Resource person: Dr.S. Thirumavalavan and Mr. C. Thamotharan

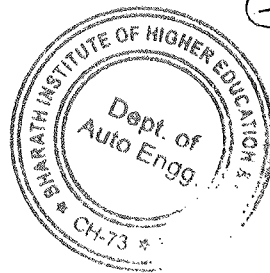
Maximum no. of registration allowed – 60.

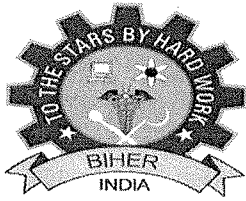
***First come first serve basis.**

Program coordinator

Mr. E. Raja

Mr. S. Manavalan





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Department of Automobile Engineering

Five days Value added Program on “Operation and Programming on CNC Machines” from
17th Feb to 21st Feb 2020

Date	Morning Session (9 AM to 12 PM)	Afternoon Session (1.30 PM to 3.30 PM)
17.02.2020 (Monday)	<p>Dr. S. Thirumavalavan Precision Instruments reading and handling, Holding of round job in an independent chuck and truing it. Holding the tool in a tool post, centering the job with the tool. Facing & drilling. Parallel turning between centers, parting off, chamfering using roughing, finishing and parting off tools.</p>	<p>Mr. C. Thamocharan Holding the job in three jaw chuck truing, centering facing. Step turning undercutting, knurling drilling and boring. Taper turning by swiveling compound rest, setting the compound rest to correct degree, checking the tool height, clamping the saddle for no longitudinal movement, checking up with precision instruments.</p>
18.02.2020 (Tuesday)	<p>Dr. S. Thirumavalavan Introduction to milling machine, demonstration on working principle, setting of job, setting of cutter in arbor, setting of vice on table. Safety points to be observed while working on a milling machine. Sequence of milling six faces of a solid block. Checking the accuracy with the help of trisquare scribing block and vernier height gauge. Step milling using side and face cutter checking with micrometer.</p>	<p>Mr. C. Thamocharan Straddle operations including up-milling and down milling. Introduction to indexing head types, setting and aligning of indexing head with reference to job on milling machine. Milling square / hexagonal job by simple indexing method.</p>
19.02.2020 (Wednesday)	<p>Dr. S. Thirumavalavan Demo of parts of CNC machine - control switches, console buttons and machines specifications Demonstration of CNC lathe parts - bed, spindle motor and drive, chuck, tailstock, tool changer, axes motor and balls crews, guide ways, LM guides, console, electrical, coolant system, hydraulic system, chip conveyor. Working of parts explained using multimedia CNC teach ware. Parts shown on machine.</p>	<p>Mr. C. Thamocharan CNC part programming with simple exercises and various programming codes. Practice on CNC machine simulator.</p>
20.02.2020 (Thursday)	<p>Dr. S. Thirumavalavan CNC turning center operation in various modes: jog, single block, auto, MDI, edit, etc. Program entry.</p>	<p>Mr. C. Thamocharan Machining parts on CNC lathe with parallel, taper, step, radius turning, grooving and threading of different pitches.</p>

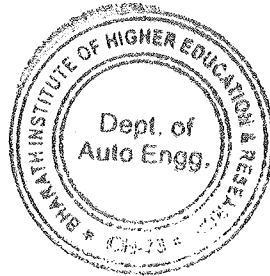
	Setting of tool offsets, entry of tool nose radius and orientation.	First 60 % of the practice is on CNC machine simulator, followed by 40 % on machine.
21.02.2020 (Friday)	Dr. S. Thirumavalavan Demo of parts of CNC machining center - control switches, console buttons and machines specifications (spindle power, axes traverse, etc.). Demonstration of machine parts - bed, spindle motor and drive, tool changer, axes motors and ball screws, guideways, LM guides, console, electrical, coolant system, hydraulic system, chip conveyor. Working of parts explained using multimedia CNC teach ware. Parts shown on machine	Mr. C. Thamocharan CNC part programming with simple exercises and various programming codes. Practice on CNC machine simulator. CNC machining center operation in various modes: jog, single block, auto, MDI, edit, etc. Program entry. Setting of tool offsets, entry of tool radius. Practice on CNC machine simulator.

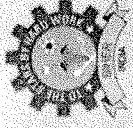
Program Coordinator:

Mr.S. Manavalan

Mr.E. Raja

E-Mail: raja.auto@bharathuniv.ac.in





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ACCREDITED WITH 'A' GRADE BY NAAC

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
SCHOOL OF MECHANICAL ENGINEERING
DEPARTMENT OF AUTOMOBILE ENGINEERING
CONDUCTING VALUE ADDED COURSE ON
OPERATION AND PROGRAMMING OF
CNC MACHINES

Date

17.02.2020

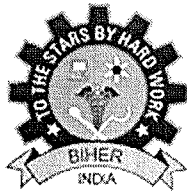
Resource Person

Dr. S. Thirumavalavan
&
Mr. C. Thamotharan

Program Coordinator

Mr. E. Raja, AP / Automobile

Mr. S. Manavalan, AP / Automobile



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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.

Name of Department : Medical.

Date : 17/2/2020

Event / Speaker Name : Dr. S. Thirumavalavan.

- Please rate the session on the scale indicated. Your comments are most appreciated.

S.NO	Parameters	Below Average	Average	Good	Excellent	Outstanding
1.	The Topic				✓	
	The choice of topic was relevant to me					✓
2.	The Lecturer / Speaker				✓	
	Self-confidence				✓	
	Communication skills				✓	✓
	Doubts/ queries were answered satisfactorily				✓	
3.	The Content (Topic)				✓	
	Refers to latest developments in the field				✓	
	Career oriented				✓	
	Innovative learning, if any				✓	

- Overall, how would you rate this Guest Lecture / Workshop / Seminar / Event/Value added course?

1. Below Average	2. Average	3. Good	4. Excellent	5. Outstanding
			✓	

- Comments (If any):



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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.

Name of Department : *Automobile*

Date : *17.02.2020*

Event / Speaker Name : *Dr. S. Thirumavalavan*

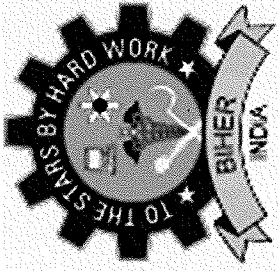
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2.	The Lecturer / Speaker					
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	Communication skills					✓
	Doubts/ queries were answered satisfactorily					✓
3.	The Content (Topic)					
	Refers to latest developments in the field				✓	
	Career oriented					✓
	Innovative learning, if any					✓

- Overall, how would you rate this Guest Lecture / Workshop / Seminar / Event/Value added course?

1. Below Average	2. Average	3. Good	4. Excellent	5. Outstanding
			✓	

- Comments (If any):



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This is to certify that Mr/Ms **.VEMULA.VENKAT.KUMAR.....** has

attended the **Certificate course on Operation and Programming of CNC**

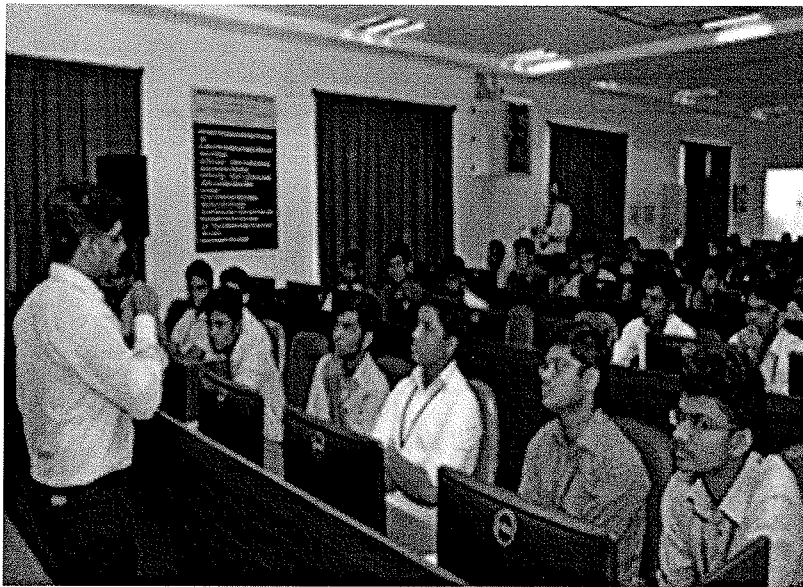
Machines programme organized by Department of Automobile

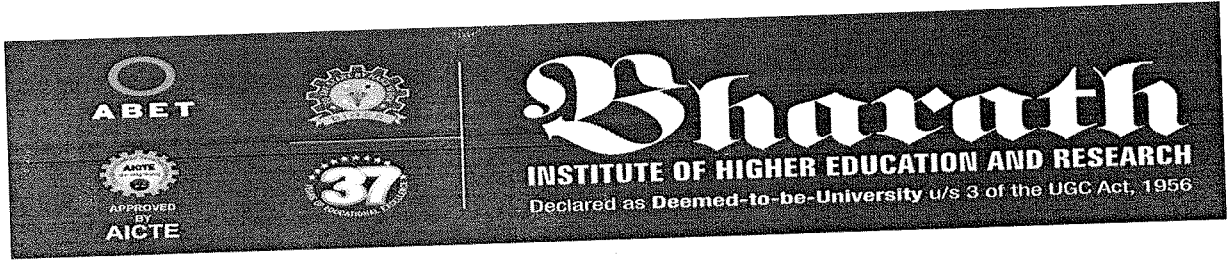
Engineering, Bharath Institute of Higher Education and Research, Chennai

on **17-02-20.**

Co-Ordinator

Head of the Department





DEPARTMENT OF AUTOMOBILE ENGINEERING

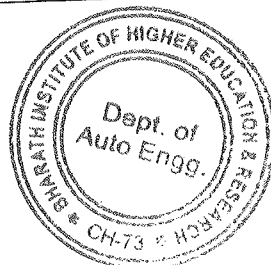
STUDENTS NAME LIST

COURSE: Operations Programme of CNC Machine

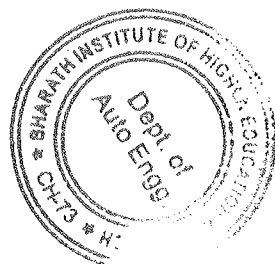
DATE: 17.02.2020

ACADEMIC YEAR: 2019-2020

S.No	REG.NO	STUDENT NAME	DEPARTMENT	SIGNATURE
1	U16AM015	Parimi Sai Surya Vamsi	AUTOMOBILE	<i>Parimi Sai Surya Vamsi</i>
2	U16AM017	Amal Philip George	AUTOMOBILE	<i>Amal Philip George</i>
3	U16AM018	Roshan Romario Francis	AUTOMOBILE	<i>Roshan Romario Francis</i>
4	U16AM019	Antham Jeeva Reddy	AUTOMOBILE	<i>Antham Jeeva Reddy</i>
5	U16AM020	Merugu Shiva Sagar	AUTOMOBILE	<i>Merugu Shiva Sagar</i>
6	U17AM044	INUKONDA CHARAN SRI	AUTOMOBILE	<i>Inukonda Charan Sri</i>
7	U17AM045	KAVINADHITHYA K B	AUTOMOBILE	<i>Kavinadhithya K B</i>
8	U17AM046	VETRIVEL P	AUTOMOBILE	<i>Vetrivel P</i>
9	U17AM047	MANISH P MUTREJA .	AUTOMOBILE	<i>Manish P Mutreja</i>
10	U17AM048	HARIHARAN S	AUTOMOBILE	<i>Harihara S</i>
11	U17AM007	YOGESHWARAN K	AUTOMOBILE	<i>Yogeshwaran K</i>
12	U18AM005	DULAM YESWANTH REDDY.	AUTOMOBILE	<i>Dulam Yeswanth Reddy</i>
13	U18AM006	CHANDRU J	AUTOMOBILE	<i>Chandru J</i>
14	U18AM007	ADDURI SAI AKHIL	AUTOMOBILE	<i>Adduri Sai Akhil</i>
15	U18AM008	NARAYANAM KRISHNA SAI N	AUTOMOBILE	<i>Narayanam Krishna Sai N</i>



16	U16MT003	DINESH J	MECHATRONICS	J. Dine
17	U16MT004	SRINATH B	MECHATRONICS	Srinath B
18	U16MT005	DHANASEKAR R	MECHATRONICS	Dhanasekar R
19	U16MT006	GOUTHAM M	MECHATRONICS	Goutham M
20	U16MT007	SATHIYASEELAN S	MECHATRONICS	Sathyaseelan S
21	U16MT008	RAKESH P	MECHATRONICS	P. Rave
22	U17MT012	TAMILSELVAN A	MECHATRONICS	Tamilselvan A
23	U17MT013	ARUN KUMAR C K	MECHATRONICS	Arun C K
24	U17MT014	MOHAN PIRASATH M	MECHATRONICS	Mohan Pirasath M
25	U17MT015	BAGIYARAJ D	MECHATRONICS	Bagiyaraj D
26	U17MT016	MANOJ KUMAR P	MECHATRONICS	Manoj P
27	U18MT028	S AKASH .	MECHATRONICS	S. Akash
28	U18MT029	GARAPATI NAGA VEERA VENKATA DURGA PRASAD	MECHATRONICS	G. V. D. R. (Sheela)
29	U18MT030	CHILUKURI V D R SURYA CHOWDARY .	MECHATRONICS	C. V. D. R. (Sheela)
30	U18MT031	SENGUTTUVAN A .	MECHATRONICS	Senguttuvan A
31	U18MT032	ASLAM HAMEED N .	MECHATRONICS	Aslam Hameed N
32	U16ME056	YOGESH	MECHANICAL	Yogesh
33	U16ME059	JEFRON	MECHANICAL	Jefron
34	U16ME062	DANIEL	MECHANICAL	Daniel
35	U16ME066	VASANTH KUMAR	MECHANICAL	Vasanth Kumar
36	U17ME102	HARISH	MECHANICAL	Harish
37	U17ME120	SUDDAPALLI JASWANTH SAI KUMAR	MECHANICAL	Somy



38	U17ME125	BURRAREDDYPALLE	MECHANICAL	Burrareddy
39	U17ME131	DASARI	MECHANICAL	Danny
40	U17ME135	VEMULA CHANDU RASAD	MECHANICAL	Vemula
41	U18ME100	EDIPALLI DATTA SAI VARMA	MECHANICAL	E. Sai Varma
42	U18ME104	VEMULA VINOD KUMAR	MECHANICAL	V. Vinod Kumar
43	U18ME117	SURESH	MECHANICAL	Suresh
44	U18ME120	AJAY KUMAR REDDY	MECHANICAL	Ajay Kumar Reddy
45	U18ME126	MALLU SRIKANTH REDDY	MECHANICAL	M. Srikanth Reddy

No of Students Registered: 45

No of Students present: 45

