



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

**Requisition Letter**

**Date: 12.08.2019**

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,

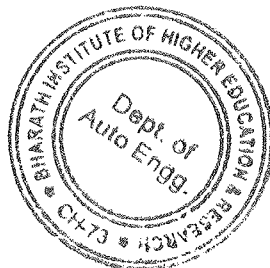
Sub: Requisition for conducting Value added course – reg.

School of Mechanical Engineering has planned to conduct Value added course on “Skill Development on CNC Lathe Machine” on 19/08/2019. 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: 14.08.2019

### Circular

The of Department of Automobile Engineering, BIHER glad to conduct on five days value added program on "*The Skill Development on CNC Lathe Machine*" from 19.08.2019 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. M. Senthil Kumar and Mr. V. P. Durai Raj**

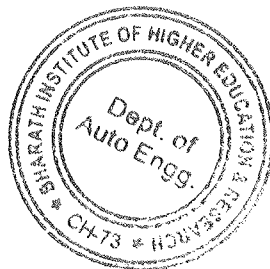
Maximum no. of registration allowed – 60.

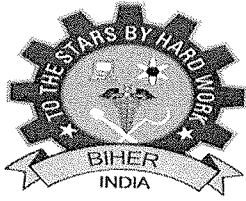
**\*First come first serve basis.**

**Program coordinator**

 **Mr. E. Raja**

 **Mr. R. Anbazhagan**





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## Department of Automobile Engineering

Five days Value added Program on “*The Skill Development on CNC Lathe Machine*” from  
19<sup>th</sup> August to 23<sup>rd</sup> August 2019

Date	Morning Session (9 AM to 12 PM)	Afternoon Session (1.30 PM to 3.30 PM)
19.08.2019 (Monday)	<b>Dr. M. Senthil Kumar</b> 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.	<b>Mr. V. P. Durai Raj</b> 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.
20.08.2019 (Tuesday)	<b>Dr. M. Senthil Kumar</b> 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.	<b>Mr. V. P. Durai Raj</b> 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.
21.08.2019 (Wednesday)	<b>Dr. M. Senthil Kumar</b> 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.	<b>Mr. V. P. Durai Raj</b> CNC part programming with simple exercises and various programming codes. Practice on CNC machine simulator.
22.08.2019 (Thursday)	<b>Dr. M. Senthil Kumar</b> CNC turning center operation in various modes: jog, single block, auto, MDI,	<b>Mr. V. P. Durai Raj</b> Machining parts on CNC lathe with parallel, taper, step, radius turning, grooving and threading of different

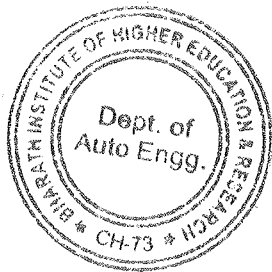
	edit, etc. Program entry. Setting of tool offsets, entry of tool nose radius and orientation.	pitches. First 60 % of the practice is on CNC machine simulator, followed by 40 % on machine.
23.08.2019 (Friday)	<b>Dr. M. Senthil Kumar</b> Demo of parts of CNC machining center - control switches, console 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	<b>Mr. V. P. Durai Raj</b> 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.

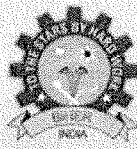
Program Coordinator:

Mr.R. Anbazhagan

Mr.E. Raja

E-Mail: [raja.auto@bharathuniv.ac.in](mailto: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**

# **THE SKILL DEVELOPEMENT ON CNC LATHE MACHINE**

**Date**

**19.08.2019**

**Resource Person**

**Dr. M. Senthil Kumar**  
**Mr. V. P. Durai Raj**

**Program Coordinator**

**Mr. R. Anbazhagan, AP / Automobile**  
**Mr. E. Raja, 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 : ..... AUTOMOBILE .....

Date : ..... 20.08.2019. .....

Event / Speaker Name : ..... Dr. M. Senthil Kumar. .....

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

S.NO	Parameters	Below Average	Average	Good	Excellent	Outstanding
1.	<b>The Topic</b>					
	The choice of topic was relevant to me				✓	
2.	<b>The Lecturer / Speaker</b>					
	Self-confidence					✓
	Communication skills				✓	
	Doubts/ queries were answered satisfactorily				✓	
3.	<b>The Content (Topic)</b>					
	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?

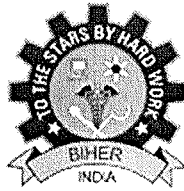
1. Below Average	2. Average	3. Good	4. Excellent	5. Outstanding
				✓

- Comments (If any):

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## FEEDBACK FORM

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Name of Department : ..... *Mechanical* .....

Date : ..... *20.08.2019* .....

Event / Speaker Name : ..... *Mr. V. P. Durai Raj* .....

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

S.NO	Parameters	Below Average	Average	Good	Excellent	Outstanding
1.	<b>The Topic</b>					
	The choice of topic was relevant to me				✓	
2.	<b>The Lecturer / Speaker</b>					
	Self-confidence					✓
	Communication skills					✓
	Doubts/ queries were answered satisfactorily				✓	
3.	<b>The Content (Topic)</b>					
	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):

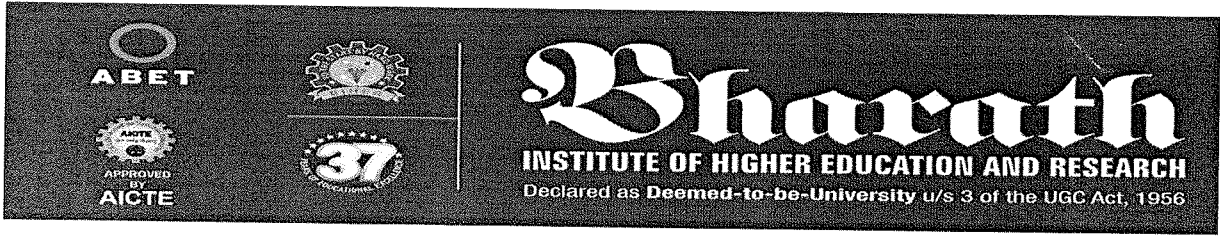
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**DEPARTMENT OF AUTOMOBILE ENGINEERING**

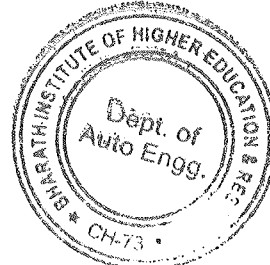
**STUDENTS NAME LIST**

**COURSE: Skill Development on CNC Lathe Machine**

**DATE: 20.04.2020**

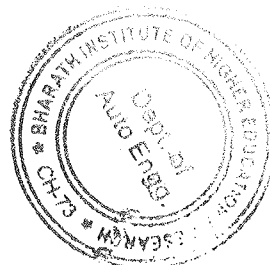
**ACADEMIC YEAR: 2019-2020**

S.No	REG.NO	STUDENT NAME	DEPARTMENT	SIGNATURE
1	U16AM012	MOHAMED IMTHIYAZ M	AUTOMOBILE	<i>[Signature]</i>
2	U16AM014	KARMUGILAN V	AUTOMOBILE	<i>[Signature]</i>
3	U16AM015	PARIMI SAI SURYA VAMSI	AUTOMOBILE	<i>[Signature]</i>
4	U16AM017	AMAL PHILIP GEORGE	AUTOMOBILE	<i>[Signature]</i>
5	U16AM009	THAMIM ANSARI K	AUTOMOBILE	<i>[Signature]</i>
6	U17AM002	PRAVEEN KUMAR G	AUTOMOBILE	<i>[Signature]</i>
7	U17AM003	ALIHUSSAIN MURTAZA	AUTOMOBILE	<i>[Signature]</i>
8	U17AM004	NAVEEN KUMAR U	AUTOMOBILE	<i>[Signature]</i>
9	U17AM005	SUNDERJI G	AUTOMOBILE	<i>[Signature]</i>
10	U17AM006	RANJITH R	AUTOMOBILE	<i>[Signature]</i>
11	U17AM007	YOGESHWARAN K	AUTOMOBILE	<i>[Signature]</i>
12	U18AM005	DULAM YESWANTH REDDY.	AUTOMOBILE	<i>[Signature]</i>
13	U18AM006	CHANDRU J	AUTOMOBILE	<i>[Signature]</i>
14	U18AM007	ADDURI SAI AKHIL	AUTOMOBILE	<i>[Signature]</i>





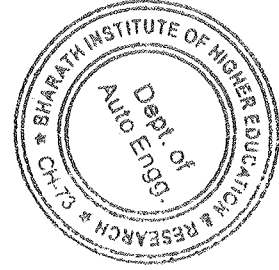
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16	U16MT003	DINESH J	MECHATRONICS	Dinesh.
17	U16MT004	SRINATH B	MECHATRONICS	Srinath.
18	U16MT005	DHANASEKAR R	MECHATRONICS	Dhanasekar
19	U16MT006	GOUTHAM M	MECHATRONICS	Gautham.
20	U16MT007	SATHIYASEELAN S	MECHATRONICS	Sathyaseelan.
21	U16MT008	RAKESH P	MECHATRONICS	Rakesh.
22	U17MT012	TAMILSELVAN A	MECHATRONICS	Tamil Selvan
23	U17MT013	ARUN KUMAR C K	MECHATRONICS	C.K. Arunkumar
24	U17MT014	MOHAN PIRASATH M	MECHATRONICS	Moham M.
25	U17MT015	BAGIYARAJ D	MECHATRONICS	Bagiyaraj.
26	U17MT016	MANOJ KUMAR P	MECHATRONICS	Manoj Kumar
27	U18MT028	S AKASH .	MECHATRONICS	S. Akash.
28	U18MT029	GARAPATI NAGA VEERA VENKATA DURGA PRASAD	MECHATRONICS	G.V.V.V. Durga.
29	U18MT030	CHILUKURI V D R SURYA CHOWDARY .	MECHATRONICS	C.D.R.S. Choudhary
30	U18MT031	SENGUTTUVAN A .	MECHATRONICS	Senthuman
31	U18MT032	ASLAM HAMEED N .	MECHATRONICS	Aslam Hameed
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	JASWANTH SAI	MECHANICAL	Jaswanth Sai

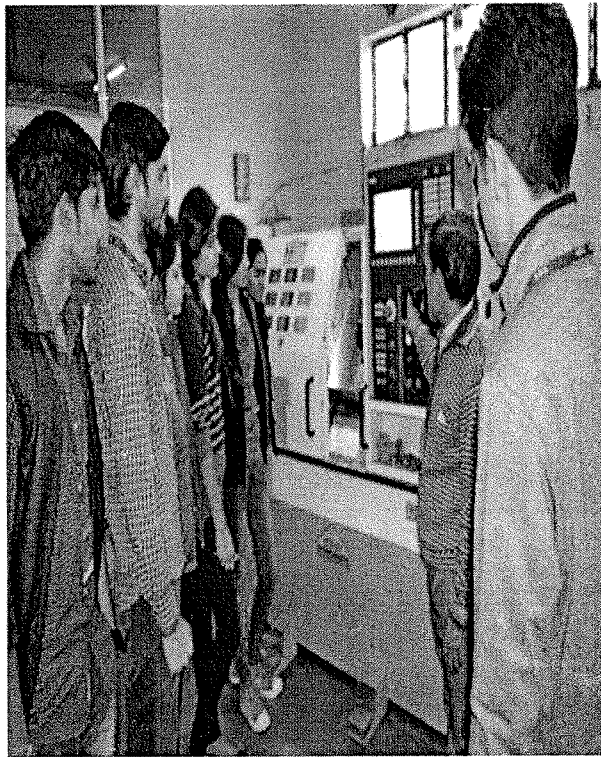


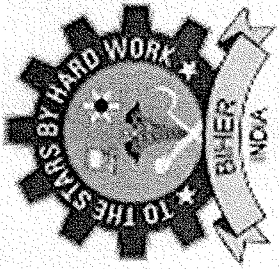
38	U17ME125	BURRAREDDYPALLE	MECHANICAL	Burra Reddy Reddy.
39	U17ME131	DASARI	MECHANICAL	Dasari
40	U17ME135	VEMULA CHANDU RASAD	MECHANICAL	V.Chandupasa

No of Students Registered: 40

No of Students present: 40







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This is to certify that Mr/Ms ..... **RANJITH.R**..... has

attended the *Value Added Course on Skill Development on CNC Lathe Machine*  
programme organized by Department of Automobile Engineering, Bharath  
Institute of Higher Education and Research, Chennai on *19-08-19*.

*E. Anur*  
Co-Ordinator

*M. G. —*  
Head of the Department