

AUTOMOBILE

REQUISITION LETTER

From,

Head of the Department,
Automobile Engineering,
J.K.K Munirajah College of Technology,
T.N.Palayam.

To,

The Principal,
J.K.K Munirajah college of Technology,
T.N.Palayam.

Permitted
Sreed

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program-Reg

We have planned to conduct a Certificate Program for II-, III- and IV-year AUTO students on "ADVANCED AUTOMOTIVE TECHNOLOGY" from 13.09.2021 TO 18.09.2021 by program coordinator Mr.S.GANESH KUMAR , AP/AUTO . So, I request you to kindly provide permission to conduct the Certificate Program.

Thanking You,

Place: T.N.Palayam

Date: 03.09.2021

Yours Truly

V.N.S

Sreed

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



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JKKMCT/CIRCULAR/SEP-21

06.09.2021

CIRCULAR

The Department of Automobile Engineering is planning to organize a Certificate Program on “**ADVANCED AUTOMOTIVE TECHNOLOGY**” for the benefit of the students from **13.09.2021 (Monday) TO 18.09.2021 (Saturday)**. Students those who are willing to attend the course can enroll their names to their class in-charges respectively on or before 10.09.2021.



PRINCIPAL

Copy To

All the HODs and Staff Members,

All the students,

Notice Boards & File Copy


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DEPARTMENT OF AUTOMOBILE ENGINEERING

ProgramName : ADVANCED AUTOMOTIVE TECHNOLOGY

ProgramCode : 21AEAATCP01

ProgramCoordinatorName: Mr.S.GANESH KUMAR, M.E TotalHours: 36hrs

CHAPTER I—ADVANCED AUTOMOTIVE ENGINEERING BASICS

- Identify and choose safe working practices, environment regulations and housekeeping.
- Select and make use of various precision measuring instruments, determine the dimension of components and record the data.
- Interpret specifications, different engineering drawing and apply for different application in the field of work.
- Organize and carry out various metal testing methods, determine the values and compare with the standards

CHAPTER II -AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEM –

DIAGNOSIS & REPAIR FOR HYBRID VEHICLES

- Plan and perform the trouble shooting, diagnosis of automotive electronics and communication system, determine and solve the problems and justify the results.
- Demonstrate troubleshoot and Diagnosis of vehicle safety system.
- Plan and organize the trouble shooting, diagnosis of automotive electrical accessories, determine and solve the problems and justify the results.



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CHAPTER III - AUTOMOTIVE ENGINE – DIAGNOSIS AND REPAIR FOR ADVANCED

MPFI

- Plan and organize the troubleshooting and diagnosis of intake and exhaust system.
- Plan and organize the troubleshooting and diagnosis of power plant (Engine: Construction, Petrol and Diesel).
- Plan and perform the trouble shooting, diagnosis of automotive electronics and
- communication system, determine and solve the problems and justify the results.
- Plan and organize the troubleshooting and diagnosis of cooling and lubricating system.

CHAPTER IV- DIAGNOSIS AND REPAIR FOR ADVANCED HIGH SPEED AUTOMATIC

TRANSMISSION

- Plan and organize to find the faults and Diagnosis of manual Transmission system and suggest appropriate measure for manual transmission, transaxle, differential and final drive.
- Examine/interpret the faults in Diagnosis of automatic Transmission system and suggest appropriate measure for automatic Gear boxes.



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CHAPTER V- ADVANCED AUTOMOTIVE AIR CONDITIONING AND CLIMATE

CONTROL SYSTEM

Plan and organize to carry out maintenance and overhauling of different types of transmission in two and three wheelers, determine its functionality and its performance.

- Plan and organize to find the faults and Diagnosis of air conditioning and climate control system and suggest appropriate measure for brake, suspension and steering system.
- Plan and organize to find the faults and Diagnosis of climate system and suggest appropriate measure for its functionality.

Prepared By :

Name : S.GANESH KUMAR, M.E

Designation : AP/AUTO

PROGRAM COORDINATOR

HOD

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DEPARTMENT OF AUTOMOBILE ENGINEERING

Schedule Period : 13.09.2021 TO 18.09.2021

Dates/ Duration	09:30 AM to 11:30 AM (02.00 hr)	BREAK	11.45 AM to 1.15 PM (01.30 hr)	LUNCH	2:00 PM to 4.20 PM (02.30hr)
13.09.2021	Identify and choose safe working practices, environment regulations and housekeeping.		Sections used for structural steel, Analysis & design philosophies		Interpret specifications, different engineering drawing and apply for different application in the field of work.
14.09.2021	Organize and carry out various metal testing methods, determine the values and compare with the standards.		Identify and explain the hydraulic and pneumatic components in the workshop and vehicles.		Organize and measure various engine parameters (torque, BHP, BMEP, IHP etc.)
15.09.2021	Organize and carry out joining of metals using different methods and test for defects.		Check and interpret vehicle specification data and VIN and prepare a job card.		Plan and perform various basic tests related with auto electrical and electronics and interpret the values
16.09.2021	Obtained by comparing with the standards.		Plan and perform the trouble shooting, diagnosis of automotive electrical system, determine and solve the problems and justify the results		Plan and perform the trouble shooting, diagnosis of automotive electronics and communication system
17.09.2021	Demonstrate troubleshoot and Diagnosis of vehicle safety system.		Plan and organize the trouble shooting, diagnosis of automotive electrical accessories		Plan and organize the troubleshooting and diagnosis of intake and exhaust system.
18.09.2021	Plan and organize the troubleshooting and diagnosis of power plant (Engine: Construction, Petrol, Diesel)		Plan and perform the trouble shooting, diagnosis of automotive emission control system		Examine/interpret the faults in Diagnosis of vehicle control system

S. Jee
PROGRAM COORDINATOR

V. V. V.
HOD

Jee
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Jee

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DEPARTMENT OF AUTOMOBILE ENGINEERING

RESOURCE PERSON PROFILE

Title of the Program	ADVANCED AUTOMOTIVE TECHNOLOGY
Duration and Timing of the Program	13.09.2021 TO 18.09.2021
Name of the Resource Person	Mr.S.GANESH KUMAR.,M.E,
Photo Image of the Resource Person	
E-mail	ganeshkumars@jkkmct.edu.in
Mobile No:	8012026446
Designation	AP/AUTO
Official Address	Department of Auto, JKKMCT, T.N.Palayam-638506, Erode (Dt)
Educational Qualification	B.E(Mechanical Engineering), M.E(Manufacturing Engineering)
Experience	7 years of Teaching Experience as Assistant Professor
Field of Interest	Automotive Systems



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DEPARTMENT OF AUTOMOBILE ENGINEERING

ACADEMIC YEAR:2021-2022

CERTIFICATE PROGRAM - ADVANCED AUTOMOTIVE TECHNOLOGY

STUDENT WILLING LIST

S.NO	REGISTER NUMBER	STUDENT NAME	STUDENT SIGNATURE
1	731218102001	ARUN BOOPATHI M	<i>Arun B</i>
2	731218102003	LOGU P	<i>P Logu</i>
3	731218102004	MOHAMMED RIYAZ KHAN M	<i>Mohammed Riyaz</i>
4	731219102001	AJAY KRISHNA	<i>Ajay</i>
5	731219102002	ARAVINTH R	<i>Aravinth</i>
6	731219102003	DHINESH KUMAR K	<i>K. Dinesh</i>
7	731219102004	HARIPRASATH T	<i>T. Hariprasath</i>
8	731219102007	SIRANJEEVI G	<i>Siranjeevi</i>
9	731219102008	UMAMAHESWARAN D	<i>D. Umamaheswaran</i>
10	731219102301	MOHAN KUMAR M	<i>M. Mohan</i>
11	731219102302	RAJ R	<i>R. Raj</i>
12	731219102303	SANJAY KRISHNAN S	<i>S. Sanjay</i>
13	731220102001	DHANALAKSHMANAN B	<i>B. Dhana</i>

S. Gan
PROGRAM COORDINATOR

V. V. V.
HOD

Sreedh
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DEPARTMENT OF AUTOMOBILE ENGINEERING

ACADEMIC YEAR:2021-2022

CERTIFICATE PROGRAM - ADVANCED AUTOMOTIVE TECHNOLOGY

STUDENT NAME LIST

S.NO	REGISTER NO	STUDENT NAME
1.	731218102001	ARUN BOOPATHI M
2.	731218102003	LOGU P
3.	731218102004	MOHAMMED RIYAZ KHAN M
4.	731219102001	AJAY KRISHNA
5.	731219102002	ARAVINTH R
6.	731219102003	DHINESH KUMAR K
7.	731219102004	HARIPRASATH T
8.	731219102007	SIRANJEEVI G
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10.	731219102301	MOHAN KUMAR M
11.	731219102302	RAJ R
12.	731219102303	SANJAY KRISHNAN S
13.	731220102001	DHANALAKSHMANAN B


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DEPARTMENT OF AUTOMOBILE ENGINEERING

ACADEMIC YEAR:2021-22

CERTIFICATE PROGRAM ON ADVANCED AUTOMOTIVE TECHNOLOGY - ATTENDANCE SHEET

Schedule Period : 13.09.2021 TO 18.09.2021

Sl. NO	NAME OF THE PARTICIPANT	ATTENDANCE OF THE PARTICIPANTS											
		13-09-21		14-09-21		15-09-21		16-09-21		17-09-21		18-09-21	
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
IV YEAR													
1	ARUN BOOPATHI M	/	/	/	/	/	/	/	/	/	/	/	/
2	LOGU P	/	a	/	/	/	/	/	a	/	/	/	a
3	MOHAMMED RIYAZ KHAN M	/	/	/	a	/	/	/	/	/	/	/	/
4	AJAY KRISHNA	/	/	/	/	/	a	/	/	/	/	/	/
III YEAR													
5	ARAVINTH R	/	/	/	/	/	/	/	/	/	/	/	a
6	DHINESH KUMAR K	/	/	/	/	/	/	/	/	/	/	/	/
7	HARIPRASATH T	/	a	/	/	/	/	/	/	/	/	/	/
8	SIRANJEEVI G	/	/	/	/	/	/	/	/	/	/	/	/
9	UMAMAHESWARAN D	/	/	a	/	/	a	/	/	/	/	/	/
10	MOHAN KUMAR M	/	/	/	/	/	/	/	/	/	a	/	/
11	RAJ R	/	/	/	a	/	/	/	a	/	/	/	/



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DEPARTMENT OF AUTOMOBILE ENGINEERING

ASSESSMENT ON ADVANCED AUTOMOTIVE TECHNOLOGY

ANSWER ALL QUESTIONS (15*1= 15 MARKS)

Question No. 01

The stroke of an engine is the

- (A) Volume of the cylinder
- (B) Length of the connecting rod
- (C) Internal diameter of the cylinder
- (D) Distance between T.D.C. and B.D.C.

Question No. 02

The braking control type traction control system (TCS) generally operates in the speed range of

- (A) Less than 20 kmph
- (B) Less than 40 kmph
- (C) Less than 60 kmph
- (D) More than 60 kmph

Question No. 03

The component that connects the steering rack to the knuckles is

- (A) Tie rod
- (B) Sector gear
- (C) Pivot
- (D) Spline



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Question No. 04

The cetane number of a Diesel fuel is a measure of

- (A) Volatility
- (B) Viscosity
- (C) Ignition quality
- (D) Delay period

Question No. 05

The capacity of a battery is usually expressed in terms of

- (A) Volts
- (B) Amperes
- (C) Weight
- (D) Ampere hours

Question No. 06

The most commonly used power plant in automobiles is

- (A) Gas turbine
- (B) I.C. engine
- (C) Battery
- (D) None of these



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Question No. 07

In a square type engine

- (A) Geometrical shape is square
- (B) Diameter and length of piston are same
- (C) Two cylinders are placed horizontal and two vertical
- (D) Stroke length and cylinder bore are same

Question No. 08

The connecting rods are generally made of _____ shaped cross-section.

- (A) I
- (B) C
- (C) L
- (D) H

Question No. 09

If the air-fuel mixture ignites before the spark takes place at spark plug, the condition is called

- (A) Detonation
- (B) Ignition
- (C) Pre-ignition
- (D) Rumble



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Question No. 10

The engine oil viscosity is defined by _____ ratings.

- (A) Automatic transmission fluid (ATF)
- (B) Society of automotive engineers (SAE)
- (C) Gross vehicle weight (GVW)
- (D) American petroleum institute (API)

Question No. 11

The octane rating of petrol commercially available is

- (A) 85-95
- (B) 95-100
- (C) 100-110
- (D) 110-125

Question No. 12

The vehicle ride will be comfortable if

- (A) Unsprung mass is kept minimum
- (B) Sprung mass is kept minimum
- (C) Vehicle mass is kept minimum
- (D) All of these



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Question No. 13

The acid used in automobile battery is

- (A) 0.2 mm
- (B) 0.5 mm
- (C) 1 mm
- (D) 1.5 mm

Question No. 14

The torque converter uses _____ to transfer torque.

- (A) Air
- (B) Automatic transmission fluid (ATF)
- (C) Gears
- (D) Steel belt

Question No. 15


A traction control system (TCS) in automobiles controls the

- (A) Vibrations on the steering wheel
- (B) Engine power during acceleration
- (C) Torque that is transmitted by the tyres to the road surface
- (D) Stopping distance in case of emergency


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DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE PROGRAM - ADVANCED AUTOMOTIVE TECHNOLOGY


STUDENT MARK LIST

S.NO	REGISTER NO	STUDENT NAME	STUDENT MARK
1.	731218102001	ARUN BOOPATHI M	85
2.	731218102003	LOGU P	75
3.	731218102004	MOHAMMED RIYAZ KHAN M	90
4.	731219102001	AJAY KRISHNA	65
5.	731219102002	ARAVINTH R	75
6.	731219102003	DHINESH KUMAR K	70
7.	731219102004	HARIPRASATH T	80
8.	731219102007	SIRANJEEVI G	85
9.	731219102008	UMAMAHESWARAN D	25
10.	731219102301	MOHAN KUMAR M	75
11.	731219102302	RAJ R	80
12.	731219102303	SANJAY KRISHNAN S	85
13.	731220102001	B.DHANALAKSHMANAN	20


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DEPARTMENT OF AUTOMOBILE ENGINEERING

SUMMARY/OUTCOME REPORT

Name of the Certificate Program : **ADVANCED AUTOMOTIVE TECHNOLOGY**
Program Code : **21AEAATCPO1**
Name of the Program Coordinator : Mr.S.GANESH KUMAR.,M.E,

I hereby affirm that the entire Program contents in the Certificate Program “ADVANCED AUTOMOTIVE TECHNOLOGY” listed in the Add on Program Syllabus have been actually Learned by the students as the part of the prescribed co-curricular activities through Add on Program by NAAC and NBA.

I confirmed that the Certificate Program title as **ADVANCED AUTOMOTIVE TECHNOLOGY** Bench was done by me in the beginning of this semester and Program delivery with attendance of the students were recorded.

I confirmed that all registered students for this Certificate Program were actively attended and Learned well throughout the duration of this Program. And all students were successfully completed and eligible to receive the participation certificate.

Outcome: Students shall be able to gain the knowledge in

- Plan and organize to find the faults and Diagnosis of vehicle controls (conventional) and suggest appropriate measure for brake, suspension and steering system.
- Examine/interpret the faults in Diagnosis of vehicle control system (advanced) and suggest appropriate measure for antilock brake and power steering.

Name :S.Ganesh Kumar

Designation : AP/AUTO


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CERTIFICATE OF COMPLETION

This is certify that Mr. / Ms**ARUN BOOPATHI M**..... of
.....**IV - AUTO**..... has successfully
completed certificate Program titled “**ADVANCED
AUTOMOTIVE TECHNOLOGY**” organised by
Department of Automobile Engineering

Duration : **13.09.2021 - 18.09.2021**

COORDINATOR

HOD

Principal

J.K.K.MCT

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This is certify that Mr. / Ms**LOGU P.**..... of
.....**IV - AUTO**..... has successfully
completed certificate Program titled “**ADVANCED
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Duration : **13.09.2021 - 18.09.2021**

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J.K.K.MCT



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CERTIFICATE OF COMPLETION


This is certify that Mr. / Ms **..MOHAMMED RIYAZ KHAN..M** of
.....**IV - AUTO**..... has successfully
completed certificate Program titled “**ADVANCED
AUTOMOTIVE TECHNOLOGY**” organised by
Department of Automobile Engineering

Duration : **13.09.2021 - 18.09.2021**


COORDINATOR


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CERTIFICATE OF COMPLETION

This is certify that Mr. / Ms**ATAY KRISHNA**..... of
.....**III - AUTO**..... has successfully
completed certificate Program titled “**ADVANCED
AUTOMOTIVE TECHNOLOGY**” organised by
Department of Automobile Engineering

Duration : **13.09.2021 - 18.09.2021**

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J.K.K.MCT



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CERTIFICATE OF COMPLETION

This is certify that Mr. / Ms**ARAVINTH R.**..... of
.....**III - AUTO**..... has successfully
completed certificate Program titled “**ADVANCED
AUTOMOTIVE TECHNOLOGY**” organised by
Department of Automobile Engineering

Duration : **13.09.2021 - 18.09.2021**

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CERTIFICATE OF COMPLETION

This is certify that Mr. / Ms ..**DHINESH.KUMAR.K.** of
.....**III - AUTO**..... has successfully
completed certificate Program titled “**ADVANCED
AUTOMOTIVE TECHNOLOGY**” organised by
Department of Automobile Engineering

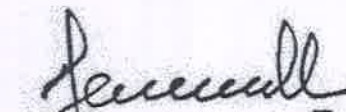
Duration : **13.09.2021 - 18.09.2021**


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CERTIFICATE OF COMPLETION

This is certify that Mr. / Ms**HARIPRASATH T.** of
.....**III - AUTO**..... has successfully
completed certificate Program titled “**ADVANCED
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Duration : **13.09.2021 - 18.09.2021**

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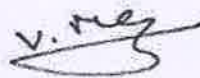



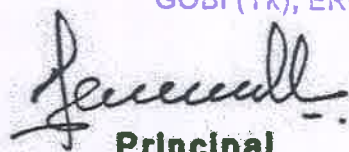
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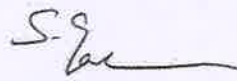
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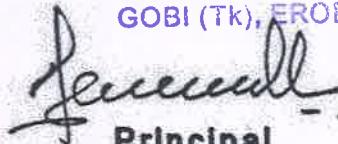
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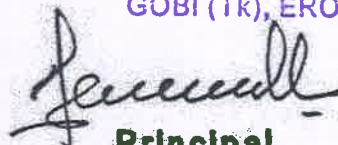
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