



RAAK

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

From

01/08/2019

Mr.G.Krishnakumar
Assistant professor, Mechanical Engineering
RAAK College of Engineering and Technology
Puducherry -110

To

The Principal
RAAK College of Engineering and Technology
Puducherry -110

Respected sir,

Sub: Requisition for Approval to Conduct Skill Development program / Value added Course on "19ME01- Cryogenic Engineering" - reg.

This is to bring to your kind notice that the Skill Development Team is planning to conduct a Program on "19ME01- Cryogenic Engineering" for the Third Year Mechanical Engineering students from 09-08-2019 to 13-08-2019

The syllabus and course plan structured are not listed in the Pondicherry University Curriculum and the same have been verified and approved by the Principal/HoD/Professors and Skill development team.

Hence, I kindly request you to approve event planned. The details and the necessary proofs are attached with this letter.

Thanking you,

Yours faithfully,

Mr.G.Krishnakumar

AP/MECH

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
PRINCIPAL
RAAK College of Engineering & Technology
No.1, Muthupillai Palayam Road,
Sulthanpet Post,
Puducherry - 605 110





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COLLEGE OF ENGINEERING AND TECHNOLOGY

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RAAKCET/PRINCIPAL/CIR/AUG2019

02/08/2019

CIRCULAR

This is to inform that the Skill Development Team is planning to conduct a value added course on "19ME01- Cryogenic Engineering" for the **Third Year Mechanical Engineering** students from 09-08-2019 to 13-08-2019. Students are asked to utilize this opportunity and improve their skills.





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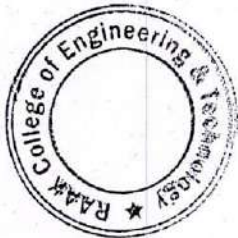
Circulation to:

1. All Students
2. All Faculty & Staff Members
3. All HoDs

Copy to:

1. All HoDs
2. Office


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NO.1, MUTHUPILLAI PALAYAM ROAD, G.N. PALAYAM, VILLIANUR, PUDUCHERRY - 606 119

DEPARTMENT OF MECHANICAL ENGINEERING

PRESENTS

VALUE ADDED COURSE ON CRYOGENIC ENGINEERING

2019-2020

DATE: 09/08/2019 to 13/08/2019

VENUE: RAAKCET

TIME: 09 am to 04 pm

Resource Person:

Mr. A. Chandiran, M.Tech.,
Assistant Professor,
Alpha college of Engg & Tech.

For Registration Contact:

Mr. K. Krishnabharathy, AP/MECH.,
8248273383, 9486304735.

HOD

Mr. Krishnakumar.G



PRINCIPAL

Dr. Sivakumar.A

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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VALUE ADDED COURSES

2019-2020

Department of Mechanical Engineering

19ME01- Cryogenic Engineering

Syllabus

Duration: 36 hours

Course Objective:

- To Builds a solid foundation in the fundamentals of cryogenics
- To encourage a“hand’s-on”approach to solving cryogenic problems
- To provide update cryogenic information

Course outcome

- To provide the knowledge of evolution of low temperature science
- To provide knowledge on the properties of materials at low temperature
- To familiarize with various gas liquefaction and refrigeration systems and to provide design aspects of cryogenic storage and transfer lines

Module 1:

(6 Hours)

Insight on Cryogenics, Properties of Cryogenic fluids, Material properties at Cryogenic Temperatures. Applications of Cryogenics-Space Programs, Super conductivity, Cryo Metallurgy, Medical applications.

Module 2:

(6 Hours)

Carnot Liquefaction Cycle, F.O.M. and Yield of Liquefaction Cycles. Inversion Curve-Joule Thomson Effect .Linde Hampson Cycle, Precooled Linde Hampson Cycle,

Module 3:

(6 Hours)

Claude Cycle Dual Pressure Cycle, Ortho-Para hydrogen conversion, Critical Components in Liquefaction Systems.



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Module 4:


(6 Hours)

J.T.Cryo coolers, Stirling Cycle Refrigerators, G.M.Cryocoolers, PulseTube Refrigerators Regenerators used in Cryogenic Refrigerators, Magnetic Refrigerators


Module 5:

(6 Hours)


Cryogenic Dewar Design, Cryogenic Transfer Lines .Insulations in Cryogenic Systems, Different types of Vacuum Pumps, Instruments to measure Flow, Level and Temperature.




Course Designed by



Approved by



Principal



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CO - ATTAINMENT MAPPING

Sl. No	Register Number	Student Name	CO1	CO2	CO3
1	17TB3101	AKASH.P	✓	✓	✓
2	17TB3102	DENNIS REGANNATHAN.J	✓	✓	✓
3	17TB3103	GOVINDHAN.D	✓	✓	✓
4	17TB3104	KARTHIKEYAN.M	✓	✓	✓
5	17TB3105	KARUNAMOORTHY.S	✓	✓	✓
6	17TB3106	KUMARAGURU.C	✓	✓	✓
7	17TB3107	KUMARAVEL.K	✓	✓	✓
8	17TB3108	MANIKANDAN.M	✓	✓	✓
9	17TB3109	MICHEAL JASS.R	✓	✓	✓
10	17TB3110	MOHAMAD ALLAUDDIN.A	✓	✓	✓
11	17TB3111	MUTHUKUMARAN.S	✓	✓	✓
12	17TB3112	NIHAL AHAMED.N	✓	✓	✓
13	17TB3114	PATTAPPAN.S	✓	✓	✓
14	17TB3115	PRAVEENKUMAR.N	✓	✓	✓
15	17TB3116	SIVABALAN.P	✓	✓	✓



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VALUE ADDED COURSES

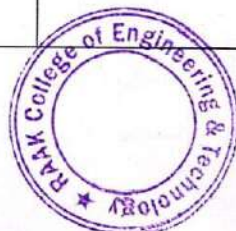
2019-2020

Department of Mechanical Engineering

19ME01- Cryogenic Engineering

COURSE PLAN

S.no	Date	Hours	Time	Topic	Resource person
DAY -1					
1	09.08.19	1,2	9AM -11AM	Insight on Cryogenics, Properties of Cryogenic fluids, Material properties at Cryogenic Temperatures.	Mr.A.chandiran & Mr.R.Dhineshbabu
2		3,4	11.15AM – 1.15 PM	Applications of Cryogenics-Space Programs,	Mr.A.chandiran &
3		5,6	2 PM -4PM	Super conductivity, Cryo Metallurgy, Medical applications.	Mr.R.Dhineshbabu
DAY 2					
4	10.08.19	7,8	9AM -11AM	Carnot Liquefaction Cycle, F.O.M. and Yield of Liquefaction Cycles	Mr.A.chandiran
5		9,10,	11.15AM – 1.15 PM	Inversion Curve-Joule Thomson Effect	Mr.R.Dhineshbabu
6		11,12	2 PM -4PM	Linde Hampson Cycle, Precooled Linde Hampson Cycle ,	Mr.A.chandiran
DAY -3					
7	11.08.19	13,14	9AM -11AM	Claude Cycle Dual Pressure Cycle,,	Mr.R.Dhineshbabu
8		15,16	11.15AM – 1.15 PM	Ortho-Para hydrogen conversion	Mr.A.chandiran
9		17,18	2 PM -4PM	Critical Components in Liquefaction Systems.	Mr.R.Dhineshbabu
DAY -4					
10	12.08.19	19,20	9AM -11AM	J.T.Cryo coolers, Stirling Cycle Refrigerators, G.M.Cryocoolers, PulseTube Refrigerators Regenerators	Mr.A.chandiran



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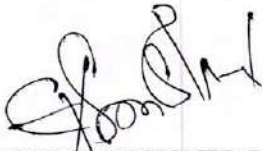
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11		21,22	11.15AM – 1.15 PM	G.M.Cryocoolers, PulseTube Refrigerator	Mr.A.chandiran
12		23,24	2 PM -4PM	Regenerators used in Cryogenic Refrigerators, Magnetic Refrigerators	Mr.A.chandiran & Mr.R.Dhineshababu
DAY-5					
13		25,26	9AM -11AM	Cryogenic Dewar Design, Cryogenic Transfer Lines	Mr.A.chandiran &
14	13.08.19	27,28	11.15AM – 1.15 PM	.Insulations in Cryogenic Systems, Different types of Vacuum Pumps,	Mr.R.Dhineshababu
15		29,30	2 PM -4PM	Instruments to measure Flow, Level and Temperature	Mr.A.chandiran &
ASSESSMENT EXAM WILL BE CONDUCTED AFTER ONE WEEK OF COURSE COMPLETION *					

BREAK TIME: 11.00 TO 11.15 AM


LUNCH BREAK: 1.15 PM TO 2.00 PM


COURSE DESIGNED BY
Mr.G.KRISHNAKUMAR


APPROVED BY
SKILL DEVELOPMENT TEAM


PRINCIPAL




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VALUE ADDED COURSES

2019-2020

Department of Mechanical Engineering

EVENT REPORT

Name of the Course: 19ME01- Cryogenic Engineering

Name of the Instructors: Mr.A.chandiran & Mr.R.Dhineshabu

Year/ Branch: III / Mechanical

Duration of Course: 30 Hours (09-08-2019 to 13-08-2019)

Assessment Date: 20.08.2019

Post Event Summary:

The course was inaugurated on 09-08-2019 at 9.30 A.M. by our respectable principal and sessions were continued as per the schedule. Students were enriched their knowledge by attending the course. Finally, the course concluded by vote of thanks.

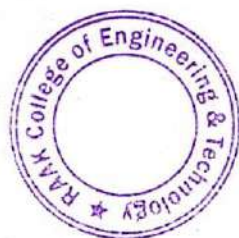
On 20.08.2019 assessment was conducted and feedbacks were collected from all the participants.


CO - Attainment:

CO1: To builds a solid foundation in the fundamentals of cryogenics

CO2: To encourage a“hand’s-on”approach to solving cryogenic problems

CO3: To provide update cryogenic information




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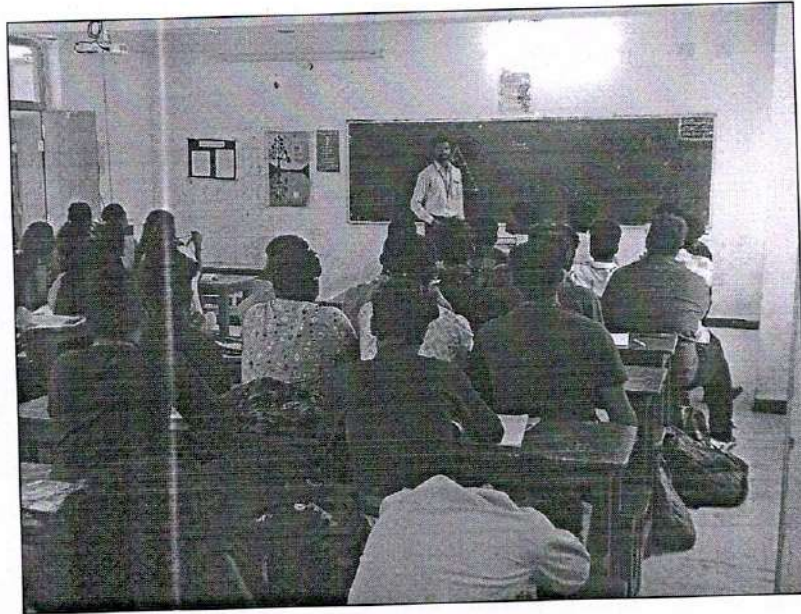


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Value Added Courses on Cryogenic Engineering 2019-20



Carnot Liquefaction Cycle, F.O.M. and Yield of Liquefaction Cycles on 10.08.19




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From

02/08/2019

Mr.G.Krishnakumar
Assistant professor, Mechanical Engineering
RAAK College of Engineering and Technology
Puducherry -110

To

The Principal
RAAK College of Engineering and Technology
Puducherry -110

Respected Sir,

Sub: Requisition for Approval to Conduct Skill Development program / Value added Course on "19ME02-vehicle dynamics"- reg.

This is to bring to your kind notice that the Skill Development Team is planning to conduct a Program on "19ME02-vehicle dynamics" for second Year Mechanical Engineering students from 09-08-2019 to 13-08-2019.

The syllabus and course plan structured are not listed in the Pondicherry University Curriculum and the same have been verified and approved by the Principal/HoD/Professors and Skill development team.

Hence, I kindly request you to approve event planned. The details and the necessary proofs are attached with this letter.

Thanking you,

Yours faithfully

G.Krishnakumar

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RAAKCET/PRINCIPAL/CIR/AUG2019

03/08/2019

CIRCULAR

This is to inform that the Skill Development Team is planning to conduct a value added course on "19ME02-Vehicle dynamics" for the **Second Year Mechanical Engineering** students from 09-08-2019 to 13-08-2019. Students are asked to utilize this opportunity and improve their skills.

PRINCIPAL

Circulation to:

1. All Students
2. All Faculty & Staff Members
3. All HoDs

Copy to:

1. All HoDs
2. Office



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DEPARTMENT OF MECHANICAL ENGINEERING

PRESENTS

VALUE ADDED COURSE ON VEHICLE DYNAMICS

2019-2020

DATE: 09/08/2019 to 13/08/2019

VENUE: RAAKCET

TIME: 09 am to 04 pm

Resource Person:

Mr. R.Dhineshababu

Assistant Professor.

Krishnaswami College of Engg & Tech.

For Registration Contact:

Mr. K. Krishnabharathy, AP/MECH,

9486522525,

HOD

Mr.Krishnakumar.G



PRINCIPAL

Dr. Sivakumar.A

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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RAAK College of Engineering & Technology
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VALUE ADDED COURSES

2019-2020

Department of Mechanical Engineering

19ME02-vehicle dynamics

Syllabus

Duration: 30 hours

Course Objective:

- In-depth understanding of specialist bodies of knowledge within the engineering discipline
- Application of established engineering methods to complex engineering problem solving
- Fluent application of engineering techniques, tools and resources

Course Outcome:

Upon successful completion of the course students able to

- Develop physical and mathematical models to predict the dynamic response of vehicles;
- Apply vehicle design performance criteria and how to use the criteria to evaluate vehicle dynamic response;
- Modify a model of a vehicle to enable it to meet design performance criteria

Module 1:

(6 Hours)

Multi Degree of Freedom Systems: Closed coupled system, Eigen value problems, Far coupled systems – Orthogonality of mode shapes-Modal analysis, Forced vibration by matrix inversion .Suspension and Tyres: Requirements. Spring mass frequency.

Module 2:

(6 Hours)

Wheel hop, wheel wobble, wheel shimmy .Choice of suspension spring rate. Calculation of effective spring rate. Vehicle suspension in fore and aft directions. Ride characteristics of tyres,behavior while cornering, power consumed by tyre, effect of driving and braking torque-Gough's tyre characteristics.

Module 3:

(6 Hours)

Vehicle Handling: Oversteer,understeer,steady state concerning.Effect of braking,driving torques on steering.Effect of camber, transient effects in concerning. Directional Stability of vehicles. Stability of Vehicles: Load distribution.



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Module 4:

(6 Hours)

Calculation of tractive effort and reactions for different drives-Stability of a vehicle on a slope, on a curve and a banked road.

Module 5:

(6 Hours)

Numerical Methods: Approximate methods for fundamental frequency, Dunker-Ley's lower bound, Rayleigh's upper bound-Holzer method for close-coupled systems and branched systems.

Course designed by

Approved by

Principal



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CO - ATTAINMENT MAPPING

Sl. No	Register Number	Student Name	CO1	CO2	CO3
1	18TB1201	AJAY.D	✓	✓	✓
2	18TB1202	AMEENUL ISLAM.N	✓	✓	✓
3	18TB1204	DHAYANITHI.A	✓	✓	✓
4	18TB1206	EZHILARASAN.S	✓	✓	✓
5	18TB1207	GANESH.M	✓	✓	✓
6	18TB1208	GNANASEKAR.S	✓	✓	✓
7	18TB1209	KARTHIKEYAN.S	✓	✓	✓
8	18TB1210	KIRAN.K	✓	✓	✓
9	18TB1211	KOWS.R	✓	✓	✓
10	18TB1212	MOHAMED IRSHATH.R	✓	✓	✓
11	18TB1213	SARANVEL.M	✓	✓	✓
12	18TB1214	SELVAGANAPATHY.T	✓	✓	✓
13	18TB1215	SIVA.A	✓	✓	✓
14	18TB1216	SIVARAJ.K	✓	✓	✓



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15	18TB1217	SIVASANKARAN.K	✓	✓	✓
16	18TB1218	VUBALANKA SAI VENKATA SRIRAM	✓	✓	✓
17	18TBL087	GOKULAKRISHNAN.S	✓	✓	✓



S. Seenuvasamurthi
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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VALUE ADDED COURSES

2019-2020

Department of Mechanical Engineering

19ME02-vehicle dynamics

COURSE PLAN

S.no	Date	Hours	Time	Topic	Remarks
DAY -1					
1	09.08.19	1.2	9AM -11AM	Multi Degree of Freedom Systems: Closed coupled system, Eigen value problems, Far coupled systems	Mr.R.Dhineshabu & Mr.A.chandiran
2		3,4	11.15AM – 1.15 PM	Orthogonality of mode shapes-Modal analysis, Forced vibration by matrix inversion	Mr.R.Dhineshabu
3		5.6	2 PM -4PM	Suspension and Tyres: Requirements. Spring mass frequency.	Mr.A.chandiran
DAY 2					
4	10.08.19	7,8	9AM -11AM	Wheel hop, wheel wobble, wheel shimmy .Choice of suspension spring rate. Calculation of effective spring rate.	Mr.R.Dhineshabu
5		9,10,	11.15AM – 1.15 PM	Vehicle suspension in fore and apt directions. Ride characteristics of tyres,behavior while cornering,	Mr.A.chandiran
6		11,12	2 PM -4PM	power consumed by tyre, effect of driving and braking torque-Gough's tyre characteristics.	Mr.R.Dhineshabu
DAY -3					
7	11.08.19	13,14	9AM -11AM	Vehicle Handling: Oversteer,understeer,steady state concerning.Effect of braking,driving torques on steering.Effect	Mr.A.chandiran
8		15,16	11.15AM – 1.15 PM	.Effect of camber, transient effects in concerning. Directional Stability of vehicles	Mr.R.Dhineshabu



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9		17,18	2 PM -4PM	Stability of Vehicles: Load distribution.	Mr.A.chandiran
DAY -4					
10	12.08.19	19,20	9AM -11AM	Calculation of tractive effort and reactions for different drives	Mr.R.Dhineshabu
11		21,22	11.15AM – 1.15 PM	-Stability of a vehicle on a slope	Mr.A.chandiran
12		23,24	2 PM -4PM	Stability of a vehicle on on a curve and a banked road.	Mr.R.Dhineshabu
DAY -5					
13	13.08.19	25,26	9AM -11AM	Numerical Methods: Approximate methods for fundamental frequency	Mr.A.chandiran
14		27,28	11.15AM – 1.15 PM	Dunker-Ley's lower bound ,Rayleigh'supperbound	
15		29,30	2 PM -4PM	Holzer method for close-coupled systems and branched systems.	Mr.A.chandiran
ASSESSMENT EXAM WILL BE CONDUCTED AFTER ONE WEEK OF COURSE COMPLETION *					

BREAK TIME: 11.00 TO 11.15 AM

LUNCH BREAK: 1.15 PM TO 2.00 PM

COURSE DESIGNED BY
Mr.G.Krishnakumar

APPROVED BY
SKILL DEVELOPMENT TEAM

PRINCIPAL



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VALUE ADDED COURSES

2019-2020

Department of Mechanical Engineering

EVENT REPORT

Name of the Course: 19ME02-Vehicle dynamics

Name of the Instructors: Mr.R.Dhineshababu & Mr.A.chandiran

Year/ Branch: II/ Mechanical

Duration of Course: 30 Hours (09-08-2019 to 13-08-2019)

Assessment Date: 20.08.2019

Post Event Summary:

The course was inaugurated on 09-08-2019 at 9.30 A.M. by our respectable principal and sessions were continued as per the schedule. Students were enriched their knowledge by attending the course. Finally, the course concluded by vote of thanks.

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CO2: Application of established engineering methods to complex engineering problem solving

CO3: Fluent application of engineering techniques, tools and resources



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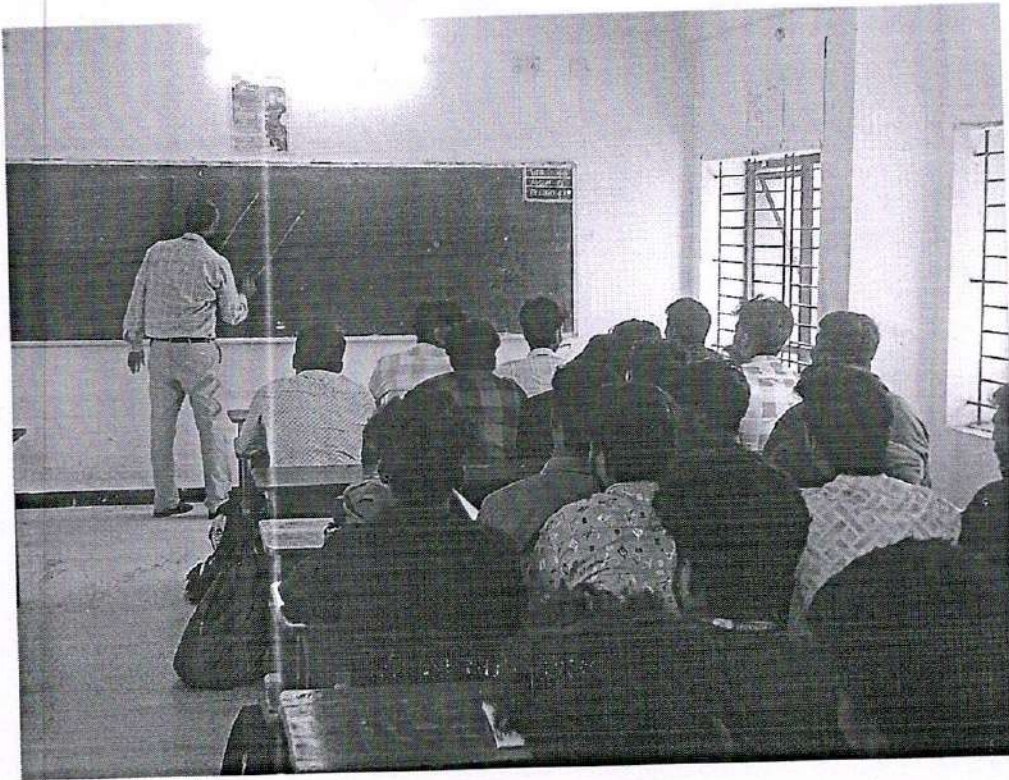


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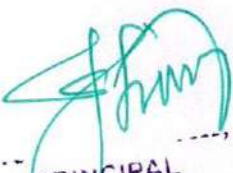
(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

Value Added Courses On Vehicle Dynamics 2019-20



Vehicle suspension in fore and aft directions. Ride characteristics of tyres, behavior while cornering
on 09.08.19




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