

MECHANICAL ENGINEERING

REQUISITION LETTER

From,

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

To,

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

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program-reg

We have planned to conduct a certificate Program for I and II year ME-Manufacturing and II, III and IV year BE-Mechanical students on “**ADVANCED GAS DYNAMICS**” from **20.09.2021** to **25.09.2021** by program coordinator Mr.K.SRIRAM.,M.E, AP/MECH. So, I request you to kindly provide permission to conduct the certificate Program.

Thanking You,

Place: T.N.Palayam

Date: 10.09.2021

Yours Truly,



Permitted
Accepted 10/9/21



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GOBI (Tk), ERODE (Dt).



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JKKMCT/CIRCULAR/063/SEP-21

14.09.2021

CIRCULAR


The Department of Mechanical Engineering is planning to organize a Value Added Course on “**Advanced Gas Dynamics**” for the benefit of the students from **20.09.2021 (Monday)** to **25.09.2021(Saturday)**. Students those who are willing to attend the course can enroll their names to their class in-charges respectively on or before 18.09.2021.


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Copy To

All the HODs and Staff Members,

All the students,


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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2021-2022

Program Name : ADVANCED GAS DYNAMICS

Program Code : 21MEAGDCP01

Program Coordinator Name: Mr.K.SRIRAM.,M.E,

Total Hours: 36 hrs

PROGRAM SYLLABUS

CHAPTER 1: GOVERNING EQUATION FOR A HEAT CONDUCTION VISCOUS COMPRESSIBLE FLUID

- Mathematical preliminaries
- Reynolds transport theorem, various divergence theorems
- Conservation equations in integral form
- Mass, momentum, energy, specie (conserve scalars)
- Conservation equations in differential form
- Jump conditions and discontinuity analysis
- Simple constitutive theory for an ideal gas with heat conduction and viscosity
- Equations of a compressible heat conduction, viscous fluids

CHAPTER 2: DIMENSIONAL ANALYSIS

- Effects of compressibility
- Regimes of the Mach number
- Nearly incompressible
- Compressible flow
- Transonic flow
- Hypersonic flow



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CHAPTER 3: EQUATIONS OF GAS DYNAMICS FOR BOTH GENERAL AND IDEAL EQUATION OF STATE

- Basic thermodynamic review and needed results
- Primitive form
- Conservative form
- Acoustic limit and the sound speed

CHAPTER 4: GENERAL THEOREMS OF GAS DYNAMICS

- Irrotational flow
- Homotropic flow
- Isentropic flow
- Circulation theorem
- Crocco's theorem

CHAPTER 5: PROPERTIES OF HIGH-TEMPERATURE GASES

- Microscopic description of the gas
- Boltzmann Distribution
- Evaluation of the Thermodynamic Properties
- Equilibrium Constant
- Chemical Equilibrium

Prepared by:

Name : Mr.K.SRIRAM.,M.E,

Designation : AP/MECH

PROGRAM COORDINATOR

HOD

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PROGRAM SCHEDULE

Title of the Course : **Advanced Gad Dynamics**

Period : **20.09.2021 to 25.09.2021**

Date	09:30 AM to 11:30 AM (2 Hrs)		11.45 AM to 1.45 PM (2 Hrs)		2:30 PM to 4.30 PM (2 Hrs)
20.9.2021	Mathematical preliminaries	BREAK	Reynolds transport theorem, various divergence theorems	LUNCH	Conservation equations in integral form Mass
21.9.2021	Conservation equations in differential form;		Jump conditions and discontinuity analysis,		Equations of a compressible heat conduction, viscous fluid
22.9.2021	Effects of compressibility, Regimes of the Mach number		Nearly incompressible Compressible flow		Transonic flow Hypersonic flow
23.9.2021	Basic thermodynamic review and needed results		Primitive form Conservative form		Acoustic limit and the sound speed
24.9.2021	Irrotational flow Homotropic flow		Isentropic flow		Circulation theorem Crocco's theorem
25.9.2021	Microscopic description of the gas Boltzmann Distribution		Evaluation of the Thermodynamic Properties		Equilibrium Constant Chemical Equilibrium

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RESOURCE PERSON PROFILE

Title of the Program	ADVANCED GAS DYNAMICS
Duration and Timing of the Program	20.09.2021 to 25.09.2021
Name of the Resource Person	Mr.K.SRIRAM.,M.E,
Photo Image of the Resource Person	
E-mail	sriramks@jkkmct.edu.in
Mobile No:	+91 8056748680
Designation	AP/MECH
Official Address	Department of Mechanical Engineering, JKKMCT, T.N.Palayam-638506, Erode (Dt)
Educational Qualification	B.E(Mechanical Engineering), M.E(Energy Engineering)
Experience	8 years of Teaching Experience as Assistant Professor
Field of Interest	Gad Dynamics, Thermal Engineering, IC Engines.



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STUDENTS WILLING LIST

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1.	731220410001	MANOJ U	<i>M. Manoj</i>
2.	731221410001	DEEPA S	<i>Deepesth</i>
3.	731221410002	DENNIS MATHEW	<i>Dennis Mathew</i>
4.	731221410003	DHARMADURAI T	<i>Dharmadurai T</i>
5.	731221410004	GOWTHAM V	<i>Gowtham V</i>
6.	731221410005	GURUPRABHU K	NOT WILLING
7.	731221410006	JENITH CHRISTOBER J	NOT WILLING
8.	731221410007	PERIYASAMY N	NOT WILLING
9.	731221410008	SIVASANKAR A	<i>A Sivasankar</i>
10.	731221410009	VINOTH A	NOT WILLING
11.	731221410010	VINOTH KUMAR R	<i>R. Vinoth Kumar</i>
12.	731220114001	JAGANKUMAR S	<i>Jagankumar S</i>
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17.	731220114006	PARTHIPAN M	<i>Parthipan M</i>
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19.	731220114008	RAVINDRAN L	<i>Ravindran L</i>
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21.	731220114011	THIRUMURUGAN M	NOT WILLING
22.	731220114012	THIRUNAVUKKARASU S	<i>Thirunavukkarasu S</i>
23.	731220114013	VELLINGIRI A	<i>A. Vellingiri</i>



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24.	731219114001	ANISHKUMAR L	L. Anish
25.	731219114002	ARUNKUMAR S	S. Arun
26.	731219114003	BALAMURUGAN V	NOT WILLING
27.	731219114004	BANGARU C	C. Bangaru
28.	731219114005	DHARMARAJ M	NOT WILLING
29.	731219114006	DINESH S	S. Dinesh
30.	731219114007	DINESH KUMAR R	R. Dinesh
31.	731219114009	KARTHI M	M. Karthi
32.	731219114011	KAVINKUMAR M	M. Kavinkumar
33.	731219114013	MANOJ J	J. Manoj
34.	731219114014	MANO RANJITH K	K. Manoranjan
35.	731219114015	MURUGESH M	M. Murugesan
36.	731219114018	PALANIKUMAR M	P. Palanikumar
37.	731219114019	SHANKER GANESH K	K. Shanker
38.	731219114021	SATHISH KUMAR S	NOT WILLING
39.	731219114022	SIVANANTH K	NOT WILLING
40.	731219114023	THAMARAI SELVAN	Thamarai
41.	731219114024	VIGNESH P	NOT WILLING
42.	731219114027	YOKESH E	E. Yokesh
43.	731219114501	DINESH KUMAR B	NOT WILLING
44.	731218114001	AATHI DHINAKARAN N	N. Aathi
45.	731218114002	ANILPRADEEPKUMAR R	R. Anilpradeep
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47.	731218114004	ATHILAKSHMANAN K	K. Athilakshmanan
48.	731218114005	CHANDRU S	S. Chandru
49.	731218114007	DHANAPAL P	P. Dhana



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52.	731218114011	GOWTHAM S	<i>Gowtham S</i>
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54.	731218114013	KATHIRVEL M	<i>Kathirvel M</i>
55.	731218114015	MATHAVAN J	<i>Mathavan J</i>
56.	731218114018	PARTHIPAN V	<i>Parthipan V</i>
57.	731218114019	PRASATH B	<i>Prasath B</i>
58.	731218114020	PRAVEEN T	NOT WILLING
59.	731218114022	RAJA V	NOT WILLING
60.	731218114023	SARATH M	<i>M. Sarath M</i>
61.	731218114025	SIVASANKAR M	<i>Sivasankar M</i>
62.	731218114026	SOUNDHAR G	<i>Soundhar G</i>
63.	731218114027	SURESH K	<i>Suresh K</i>
64.	731218114029	THAMARAI SELVAN S	NOT WILLING
65.	731218114030	VIJAY RP	<i>Vijay RP</i>
66.	731218114031	VIJAYAKUMAR I	<i>Vijayakumar I</i>
67.	731218114301	RAMESH KANNAN M	<i>Ramesh Kannan M</i>

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PROGRAM COORDINATOR

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6.	731221410008	SIVASANKAR A
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9.	731220114002	KODEESWARAN S
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14.	731220114008	RAVINDRAN L
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17.	731220114013	VELLINGIRI A
18.	731219114001	ANISHKUMAR L



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19.	731219114002	ARUNKUMAR S
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37.	731218114007	DHANAPAL P
38.	731218114009	GOKUL U



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40.	731218114011	GOWTHAM S
41.	731218114012	KARAN A
42.	731218114013	KATHIRVEL M
43.	731218114015	MATHAVAN J
44.	731218114018	PRRTHIPAN V
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46.	731218114023	SARATH M
47.	731218114025	SIVASANKAR M
48.	731218114026	SOUNDHAR G
49.	731218114027	SURESH K
50.	731218114030	VIJAY RP
51.	731218114031	VIJAYAKUMAR I
52.	731218114301	RAMESH KANNAN M


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CERTIFICATE PROGRAM ON ADVANCED GAD DYNAMICS-ATTENDANCE SHEET

S.NO	NAME OF THE STUDENT	ATTENDANCE OF THE PARTICIPANTS													
		20/9/21		21/9/21		22/9/21		23/9/21		24/9/21		25/9/21			
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
ME- I YEAR															
1.	MANOJU	/	/	/	/	/	/	/	/	/	/	/	/	/	/
ME- II YEAR															
2.	DEEPA S	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	DENNIS MATHEW	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	DHARMADURAI T	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	GOWTHAM V	/	/	/	/	/	a	/	/	/	/	/	/	/	/
6.	SIVASANKAR A	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	VINOTH KUMAR R	/	/	/	/	a	/	/	/	/	/	/	/	/	/
BE- II YEAR															
8.	JAGANKUMAR S	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	KODEESWARAN S	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	KUMARAVEL M	/	/	a	/	/	/	/	/	/	/	/	/	/	/
11.	MAHENDRAN D	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	MANIKANDAN S	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	PARTHIPAN M	/	/	/	/	/	/	/	a	/	/	/	/	/	/
14.	RAVINDRAN L	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	SENTHILKUMAR G	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	THIRUNAVUKKARASU S	/	/	a	/	/	/	/	/	/	/	/	/	/	/
17.	VELLINGIRI A	/	/	/	/	/	/	/	/	/	/	/	a	/	/



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44.	PARTHIPAN V	/	/	/	a	/	/	/	/	/	/	/	/
45.	PRASATH B	a	/	/	/	/	/	/	/	/	/	a	/
46.	SARATH M	/	/	/	/	/	/	/	/	/	/	/	/
47.	SIVASANKAR M	/	/	/	/	/	a	/	/	/	/	/	/
48.	SOUNDHAR G	a	/	/	/	/	/	/	/	/	/	/	/
49.	SURESH K	/	/	/	/	/	/	/	a	/	/	/	/
50.	VIJAY RP	/	/	/	/	/	/	/	/	/	/	/	/
51.	VIJAYAKUMARI	/	/	/	/	/	/	/	/	/	/	/	/
52.	RAMESH KANNAN M	/	/	/	/	/	a	/	/	/	/	/	/
Total Number of present		48	52	47	50	51	45	50	50	49	49	49	51
Total Number of Absent		04	0	05	02	01	08	02	02	03	03	03	01
Signature of program Coordinator		<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>	<i>K.B.</i>
Signature of HOD		<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>	<i>M.P.</i>

K.B.
PROGRAM COORDINATOR

M.P.
HOD

Sreedh.
PRINCIPAL

Sreedh.
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ASSESSMENT-ADVANCED GAS DYNAMICS

ANSWER ALL THE QUESTIONS (15x2=30 MARKS)

1. A cycle consisting of one constant pressure, one constant volume and two isentropic processes is known as
 - a) Carnot cycle
 - b) Stirling cycle
 - c) Otto cycle
 - d) Diesel cycle

2. The amount of heat required to raise the temperature of the unit mass of gas through one degree at constant volume, is called
 - a) specific heat at constant volume
 - b) specific heat at constant pressure
 - c) kilo Joule
 - d) none of these

3. The processes occurring in open system which permit the transfer of mass to and from the system, are known as
 - a) flow processes
 - b) non-flow processes
 - c) adiabatic processes
 - d) none of these

4. The value of 1 mm of Hg is equal to
 - a) 1.333 N/m²
 - b) 13.33 N/m²
 - c) 133.3 N/m²
 - d) 1333 N/m²



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5. A cycle consisting of two constant pressure and two isothermal processes is known as Ericsson cycle.
- True
 - False
6. which one of the following is proper for a normal shock wave?
- Reversible
 - Irreversible
 - Isentropic
 - Occurs in a converging tube
7. The turbine of the turbo-prop engine as compared to that of turbo-jet engine is
- similar
 - smaller
 - bigger
 - unpredictable
8. The fluid property that remains unchanged across a normal shock wave is
- stagnation enthalpy
 - stagnation pressure
 - static pressure
 - mass density
9. A normal shock
- causes a disruption and reversal of flow pattern
 - may occur only in a diverging passage
 - is more severe than an oblique shock
 - moves with a velocity equal to the sonic velocity
10. which one of the following is the correct sequence of the position of the given components in a Turboprop?
- Propeller, compressor, turbine, burner
 - Compressor, Propeller, burner, turbine
 - Propeller, compressor, burner, turbine
 - Compressor, Propeller, turbine, burner



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11. Fanno line flow is a flow in constant area duct

- a) with friction and heat transfer
- b) with friction and heat transfer and accompanied by work
- c) with friction but in the absence heat transfer or work
- d) without friction but accompanied by heat transfer and work

12. Rayleigh line flow is a flow in constant area duct

- a) with friction but without heat transfer
- b) without friction but with heat transfer
- c) with both friction and heat transfer
- d) without either friction or heat transfer

13. For oblique shock, the downstream Mach number

- a) is always more than unity
- b) is always less than unity
- c) may be less or more than unity
- d) can never be unity

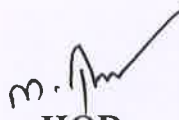
14. Fanno line flow is a flow in constant area duct

- a) with friction and heat transfer
- b) with friction and heat transfer and accompanied by work
- c) with friction but in the absence heat transfer or work
- d) without friction but accompanied by heat transfer and work

15. In a normal shock in a gas, the

- a) upstream flow is supersonic
- b) upstream flow is subsonic
- c) down stream flow is sonic


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STUDENTS MARK LIST

S.NO	REGISTER NO	STUDENT NAME	MARK
1.	731220410001	MANOJ U	93
2.	731221410001	DEEPA S	87
3.	731221410002	DENNIS MATHEW	67
4.	731221410003	DHARMADURAI T	73
5.	731221410004	GOWTHAM V	80
6.	731221410008	SIVASANKAR A	73
7.	731221410010	VINOTH KUMAR R	87
8.	731220114001	JAGANKUMAR S	60
9.	731220114002	KODEESWARAN S	67
10.	731220114003	KUMARAVEL M	87
11.	731220114004	MAHENDRAN D	60
12.	731220114005	MANIKANDAN S	67
13.	731220114006	PARTHIPAN M	<u>33</u>
14.	731220114008	RAVINDRAN L	73
15.	731220114010	SENTHILKUMAR G	73
16.	731220114012	THIRUNAVUKKARASU S	67
17.	731220114013	VELLINGIRI A	<u>40</u>
18.	731219114001	ANISHKUMAR L	73



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19.	731219114002	ARUNKUMAR S	93
20.	731219114004	BANGARU C	<u>40</u>
21.	731219114006	DINESH S	73
22.	731219114007	DINESH KUMAR R	87
23.	731219114009	KARTHI M	73
24.	731219114011	KAVINKUMAR M	87
25.	731219114013	MANOJ J	73
26.	731219114014	MANO RANJITH K	87
27.	731219114015	MURUGESH M	73
28.	731219114018	PALANIKUMAR M	<u>47</u>
29.	731219114019	SHANKER GANESH K	<u>40</u>
30.	731219114023	THAMARAI SELVAN	87
31.	731219114027	YOKESH E	73
32.	731218114001	AATHI DHINAKARAN N	87
33.	731218114002	ANILPRADEEPKUMAR R	73
34.	731218114003	ASHOKKUMAR M	<u>27</u>
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37.	731218114007	DHANAPAL P	73
38.	731218114009	GOKUL U	87



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39.	731218114010	GOKULAPRASANTH S	73
40.	731218114011	GOWTHAM S	73
41.	731218114012	KARAN A	<u>40</u>
42.	731218114013	KATHIRVEL M	93
43.	731218114015	MATHAVAN J	87
44.	731218114018	PARTHIPAN V	<u>33</u>
45.	731218114019	PRASATH B	73
46.	731218114023	SARATH M	87
47.	731218114025	SIVASANKAR M	73
48.	731218114026	SOUNDHAR G	87
49.	731218114027	SURESH K	<u>47</u>
50.	731218114030	VIJAY RP	73
51.	731218114031	VIJAYAKUMAR I	87
52.	731218114301	RAMESH KANNAN M	73

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SUMMARY/ OUTCOME REPORT

Name of the Certificate Course : **ADVANCED GAD DYNAMICS**
Course Code : **21MEAGDCO1**
Name of the Course Coordinator : **Mr.K.SRIRAM.,M.E,**


I hereby affirm that the entire course contents in the Certificate Program “ADVANCED GAD DYNAMICS” listed in the Add on course Syllabus have been actually performed by the students as the part of the prescribed co-curricular activities through Add on course.

I confirmed that the Certificate Course title as **ADVANCED GAD DYNAMICS** was done by me in the beginning of this semester and course delivery with attendance of the students were recorded.

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


OUTCOME: Students shall be able to gain the knowledge in

- Students learned about the primary differences between an incompressible flow and compressible flow.
- Builds knowledge on the governing equations to derive the commonly known equations and tackles both 2D and 3D problems
- Students understand of the physical concepts of compressible flow and keeps reference to various numerical methods for solving the governing equations.

Signature : 

Name : **Mr.K.SRIRAM.,M.E,**

Designation : **Assistant Professor/Mech**


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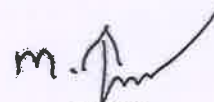




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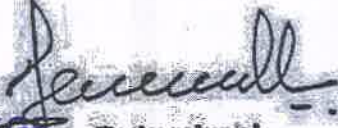
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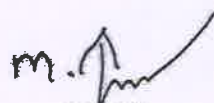


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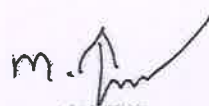



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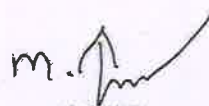


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.....*11nd-BE-MECH*..... has successfully
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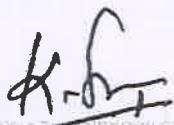
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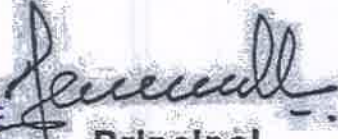
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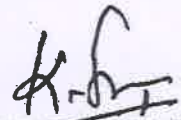
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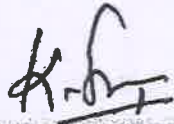
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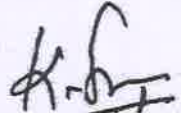
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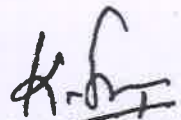
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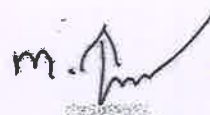


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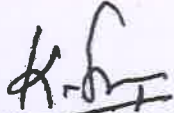
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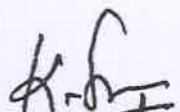
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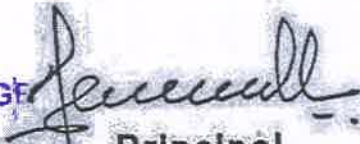
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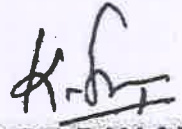
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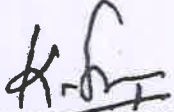
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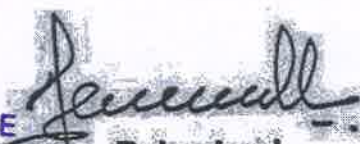
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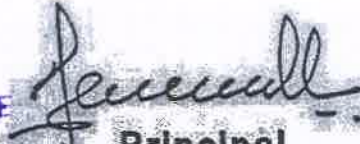
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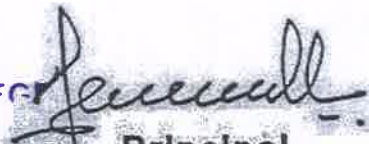
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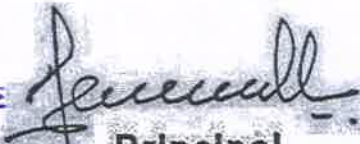
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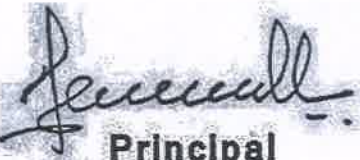
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