

## 2.2 Catering to Student Diversity



# Narasu's Sarathy Institute of Technology

Approved by AICTE | Accredited By NAAC | Affiliated to Anna University

Salem Bengaluru Highway NH - 7, Poosaripatty, Kadayampatty Taluk, Salem - 636305.

Admin Office: 93449-72274, Admission Cell: 93449-72275, 73977-56003,  
admin@nsit.edu.in, www.nsit.edu.in

NARASUS SARATHY INSTITUTE OF TECHNOLOGY has assigned this archive as the "Strategy on Advanced and Slow Learners" (NSIT). Through this arrangement, NSIT guarantees to help progressed students in turning out to be more educated by giving add-on courses/exercises and easing back students in further developing scholastics through extra care. The arrangement urges offices to foster their systems and carry out them to help both progressed and slow students in college

### ADVANCED LEARNERS

- A **high level student** is an understudy who accomplishes high grades and takes an interest in **learning exercises quicker** than different understudies.
- **Progressed Learners** are persevering understudies who have the additional potential for getting ideas, the capacity to **think fundamentally**, concoct inventive thoughts, and practice to execute them.
- **Progressed Learners** can learn/accomplish more and **handle scholarly liabilities**, if appointed, than their companions.
- **Progressed Learners** are as a rule at the front line of all new institute drives and will contend in between college rivalries

### SLOW LEARNERS

- **Slow Learners** are frail entertainers who score bad grades or now and again even bomb in tests and **slack in academic review**.
- **Slow students** might experience issues in getting illustrations, remember the idea, less learned capabilities.to connect and execute something very similar and also given the short notes
- **Powerless execution** may because of lacking certainty, **inspiration and backing**, absence of interest, powerlessness to follow the language, interruption from studies or other individual/family issues

### FIND THE STUDENT'S LEARNING IEVELS:

- The Student's profile incorporating marks gives input in recognizing the **learning capacity of understudies** who can be slow students or progressed students.
- Workforce can likewise recognize the learning limit through interaction, **Quiz, Debate, Bunch Discussion, Stimulating Questions, Mind maps**, and so on in the homeroom.
- Understudy's readiness in taking part scholastic related rivalries gives contributions to the distinguishing proof interaction.. The exhibition of the understudy **in internal Assessment Test (IAT)** empowers the employees to gauge the agreement level in the individual subject.

**With Education and Ethics, we create Excellence**

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The class counselors/coaches recognize the **high level students and slow student's based on their general execution in past semesters**, current semester and furthermore criticism from subject staff. Class council gatherings are led three times per semester and input is gathered from subject dealing with resources.

- Mentees learning capacity is distinguished by the **Mentors dependent on their scholarly execution, conduct, social and mental viewpoints during the person cooperation meeting.**
- In view of individual directing meetings, the Student Counselor can likewise give contributions about the getting a **handle on power and centralization of understudy**

### **GUIDELINES FOR ENRICHING ADVANCED LEARNERS:**

- Best friendly and Best Achiever Awards for definite year understudies are organized to urge progressed students to accomplish greatness in the expert and individual life and spurring youngsters to endeavor hard to get such honors.
- Progressed students are urged to go to studios, gatherings, workshops, contests and distribute papers by Advisors and HODs to acquire certainty and information about the most recent advances. Urge them to include them in creative ventures and examination work which are introduced in different displays of scholastics and industry.
- A **specific vested party (SVP), Entrepreneurship Development Cell (EDCI and innovation Cell** has been framed to urge understudies to create inventive modern undertakings. Ideas from the high level students are conceptualized into an inventive undertaking model and are applied for **intellectual Property Rights (IPR) through the Product improvement cell.**
- Understudies are likewise inspired to apply for **TNSCST** supported tasks and industry sponsored projects. Progressed Learners are urged to enroll themselves and get ensured in **MOOCS courses and NPTEL esteem added courses.** Directed to take an interest in Competitive assessments e.g. **GATE, TANCET and TNPSC, Bank tests**, and so on. Advance students are spurred to display their ability in the State level programmers
- A task challenge of public significance supported by **MHRD.** Understudies are allowed to take up esteem added courses training on businesses. Progressed students are urged to take part in between school rivalries. So that they can carry shrubs and grants to them and the foundation. Destin challenges are led in the foundation to empower the high level students to take part in different contests directed both bury and intra school occasions. The coaches support the high level students to contact the specialists in the scholastic **what's more industry to picture their achievement of objectives.**

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### GUIDELINES FOR IMPROVING SLOW LEARNERS:

- Resources will direct the understudies for his/her scholastic execution and character advancement through instructor to-understudy tutoring. **The Class Advisor (CA)/Tutor of each class give guide ward instructing and will deal with the understudies in their studies and private matters.** Each Mentor is appointed with less than 20 understudies to give coordinated directing to generally improvement.
- The Science and Humanities division puts together fundamental communicated in English and Correspondence classes for tire advantage of understudies whose capability in English is low Subject specialists direct medicinal classes for explaining questions, re-clarify the ideas and **practice complex issues for slow students.**
- **Through these classes, the essential abilities of the understudies will likewise be worked on in Mathematics and English.** Bilingual clarifications and conversations are granted to the lethargic students after the class hours for better arrangement.
- Notes are ready and presented on the understudies in Google homeroom by subject instructors for simple openness. **Course materials and tackled earlier year University question papers are appropriated to the understudies.** Being upheld by industry, understudies get the honor of fostering their abilities through training in related regions in the industry.
- **Group learning exercises and friend mentoring are valuable to the lethargic students.** Offering the help of cutting edge students to slow students makes their learning process more participatory and intriguing.
- **Slow students are urged to take part in co-curricular exercises, for example, meetings, specialized conferences, paper introductions, specialized activities, and so on.** The understudies are given preparing on character advancement, using time effectively also inspirational meetings to their resolve Academic and individual advising is given to the sluggish students by the coach, and the guiding cell. **Alumni collaborations are additionally coordinated to propel understudies to accomplish their objectives.**

  
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### 2.2.1 THE INSTITUTION ASSESSES THE LEARNING LEVELS OF THE STUDENTS AND ORGANIZES SPECIAL PROGRAMMES FOR SLOW LEARNERS AND ADVANCED LEARNERS

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## **INDEX SHEET**

S.No	Description	Page Number
1.	Slow learners Name list with short notes	8
2.	Coaching class timetable	20
3.	Coaching Class Attendance with marks	25
5.	Sample answer paper	30
6.	Advanced learners	37
7.	Sample certificate	47

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**SLOW LEARNERS & MEDIUM  
LEARNERS AND FAST LEARNER**

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## **SLOW LEARNERS & MEDIUM LEARNERS AND FAST LEARNER NAME LIST**



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### DEPARTMENT OF MECHANICAL ENGINEERING ACADEMIC YEAR 2020-21(ODD SEM) MARK STATEMENT OF SLOW & MEDIUM & FAST LEARNERS

Sub.code / Sub.Name: OR0551-RENEWABLE SOURCE OF ENERGY					STAFF: Mr.S JEEVANANTHAM		
S.No.	Register Number	Student Name	Category		ICT-1 16.06.2021	ICT-2 17.06.2021	MODEL EXAM 18.06.2021
1	611719114015	VIGNESH.S	A		66	68	68
2	611719114006	KATHIRESAN S (32.800) (18.000)	A		68	63	65
Total Number of Students					02	02	02
Number of Students Appeared					01	01	01
Number of Students Absent					01	01	01
Number of Students Passed					01	01	01
Number of Students Failed					-	-	-
Pass Percentage					100% ✓	100% ✓	100% ✓
3	611719114007	KEERTHANA.K (30.000) (18.000)	B		70	56	70
4	611719114301	DHINESH KUMAR.R (10.000) (6.000)	B		76	68	78
5	611719114307	TAMILARASAN (8.000) (18.000)	B		70	60	64
Total Number of Students					3	3	3
Number of Students Appeared					3	3	3
Number of Students Absent					-	-	-
Number of Students Passed					3	3	3
Number of Students Failed					-	-	-
Pass Percentage					100% ✓	100% ✓	100% ✓
6	611719114009	SANTHOSH KUMAR.P (45.000) (22.000)	C		70	64	71
7	611719114014	VIGNESH.R (5.000) (48.500)	C		69	67	74
8	611719114303	MOHANA SUNDAR.G (10.000) (18.000)	C		63	63	73
9	611719114304	PRATHEEP.T (10.000) (5.000)	C		56	53	53
Total Number of Students					4	4	4
Number of Students Appeared					4	4	4
Number of Students Absent					-	-	-
Number of Students Passed					4	4	4
Number of Students Failed					-	-	-
Pass Percentage					100% ✓	100% ✓	100% ✓
10	611719114001	ARAVINDH.S (36.000) (21.000)	D		74	65	75
11	611719114003	ELANGO.V	D		68	68	68
12	611719114012	SRIDHAR.M (45.000) (17.500)	D		64	66	71
13	611719114002	DINESH KUMAR.R.K	D		68	68	68
14	611719114004	GOKUL.P (10.000) (18.000)	D		66	60	58
15	611719114010	SANTHOSH KUMAR.S	D		68	68	68
16	611719114302	DINESH KUMAR.R (25.000) (18.500)	D		72	48	52
17	611719114305	SANTHOSH KUMAR.M	D		68	68	68
18	611719114306	SHABUDEEN M (10.000) (4.000)	D		52	55	68
Total Number of Students					09	09	09
Number of Students Appeared					05	05	05
Number of Students Absent					04	04	04
Number of Students Passed					03	04	04
Number of Students Failed					02	01	0
Pass Percentage					60% ✓	80% ✓	100% ✓
Subject In charge Signature							
HoD Signature							
Principal Signature							
Total No. of Students Appeared					13	13	13
Pass Percentage					85%	92%	100%

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## Short Notes for slow learners

### LANCASHIRE BOILER:

Fire tube, horizontal and internally fired boiler.

Working pressure  $\rightarrow 16.5$  bar

### LOCOMOTIVE BOILER:

multi tubular, fire tube, horizontal and mobile boiler.

working pressure  $\rightarrow 10$  bar

### CORNISH BOILER:

Fire tube, simple horizontal shell and tube boiler.

Working pressure  $\rightarrow 15$  bar.

### BABCOCK AND WILCOX BOILER:

straight water tube boiler.

working pressure  $\rightarrow 35$  bar.

### HIGH PRESSURE BOILER:

Lamont boiler,  
Benson boiler,  
Loeffler boiler,  
velox boiler.

### FLUIDIZED BED COMBUSTION:

$\rightarrow$  mixing fuel and air.

$\rightarrow$  Bed of solid particles as fluid.

$\rightarrow$  Bed temperature  $800-900^\circ\text{C}$ .

### UNIT-I

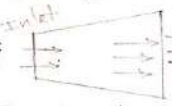
### STEAM NOZZLE:

#### Types of Nozzles:

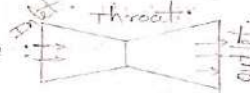
Convergent nozzle:



Divergent nozzle:



convergent-divergent nozzle:



Nozzle - Adiabatic or isentropic  
heat  $Q=0$ .

velocity of steam  $\rightarrow C_2 = 44.72 \sqrt{h_1 - h_2}$

Critical pressure ratio:

$\frac{P_2}{P_1} \rightarrow$  Inlet pressure  
 $\rightarrow$  exit throat pressure.

saturated steam  $\rightarrow n = 1.135$

superheated steam  $\rightarrow n = 1.2$

gas  $\rightarrow n = 1.4$

enthalpy  $\cdot h \rightarrow h_1 = h_f + h_{fg}$   $[E_{h_1} = h_g]$

$h_2 = h_{f2} + x_2 \cdot h_{fg2}$

Entropy  $\rightarrow s_1 = s_f + s_{fg}$   $[E_{s_1} = s_g]$

$s_2 = s_{f2} + x_2 \cdot s_{fg2}$

mass flow rate  $m = \frac{A \cdot x \cdot C}{v}$

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### UNIT-2 BOILERS

#### Classification of boilers:

- i) Flow of water and hot gases:
  - \* Fire tube = hot gas
  - \* Types: Cochran, Lancashire, Locomotive.
  - \* Water tube = water
- ii) Axis of the shell:
  - \* Vertical boiler - Used in steam powered vehicle.
  - \* Horizontal boiler - Lancashire, Locomotive.
  - \* Inclined boilers - either fire tube or water tube.
- iii) Position of furnace:
  - \* Internally fired - Cochran boiler, Lancashire boiler.
  - \* Externally & Internally fired - Babcock & Wilcox boiler, Locomotive boiler.
- iv) Method of water circulation:
  - \* Natural circulation - Babcock & Wilcox boiler, Lancashire boiler.
  - \* Forced circulation - Velox boiler, Lamont boiler, Benson boiler.
- v) Boiler mobility:
  - \* Stationary - Babcock & Wilcox boiler, Lancashire boiler.

\* Mobile boilers - Locomotive and Marine.

#### vi) Steam pressure:

- \* Low pressure boilers - Cochran & Cornish.
- \* Medium pressure boilers - Lancashire & Locomotive.
- \* High pressure boilers - Babcock & Wilcox boiler.
- \* Supercritical boilers - Water tube boilers.

#### vii) No of tubes:

- \* Single tube boilers - Cornish
- \* Multi tube boilers - Lancashire, Locomotive, Babcock and Wilcox boiler.

#### viii) Draft used:

- \* Natural draft - Simple vertical, Lancashire.
- \* Artificial draft - Locomotive, Babcock & Wilcox.

#### ix) Types of fuels:

Solid fuel boilers, Liquid (oil) gaseous fuel boilers, Electrical heated and nuclear energy boilers.

#### COCHRAN BOILER:

Multi-tubular vertical fire tube boiler.  
working pressure - 10 bar

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### UNIT - 3

#### STEAM TURBINES.

##### TYPES:

1) Method of steam expansion:  
Impulse turbine,  
Reaction turbine, combined turbine.

2) No. of stages:  
Single stage turbines,  
multi stage turbines.

3) Steam flow directions:  
Axial flow, Radial flow,  
Tangential flow and mixed flow.

4) Pressure of steam:  
High pressure, Low  
pressure and Medium pressure.

#### WORKDONE ON THE BLADE OF IP TURBINE:

By newton's second law,  $F=ma$   
Tangential force  $F_x = m \times (V_{w1} + V_{w2})$

Workdone on the  
blade,  $W = F \times D$  [ $W = P$ ]  
 $W = m V_b (V_{w1} + V_{w2})$

Steam entering the blade  $= \frac{m V_1^2}{2}$ .

Blade efficiency (or)  
Diagram efficiency  $= \frac{\text{workdone on the blade}}{\text{Energy supplied to the blade}}$   
 $= \frac{2(V_{w1} + V_{w2}) \times V_b}{V_1^2}$

Stage efficiency  $= \frac{\text{workdone by the blade}}{\text{Total heat supplied per stage}}$

$$\eta_{\text{stage}} = \frac{V_b (V_{w1} + V_{w2})}{(h_1 - h_2)}$$

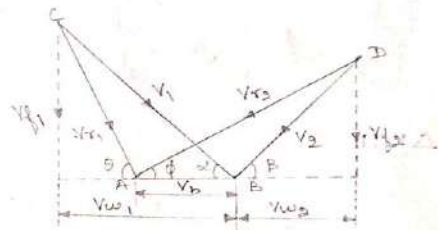
$$\eta_{\text{stage}} = \text{blade efficiency} \times \text{nozzle efficiency}$$

Axial thrust  $F_y = m(V_{f1} - V_{f2})$

Relative velocity 10 to 15%.

$V_{r1}$  to  $V_{r2} \Rightarrow$  Blade velocity of  
co-efficient.

$$k = \frac{V_{r2}}{V_{r1}} \text{ where } k \text{ varies } 0.75 \text{ to } 0.85$$



$$\text{Speed ratio } \rho = \frac{V_b}{V_1}$$

#### REACTION TURBINE:

Maximum blade  
efficiency  $\eta_{b\max} = \frac{2\cos^2\alpha}{1+\cos^2\alpha}$

quantity of steam  
flowing,  $Q = \pi d m h V_f$

mass of steam  
flowing per sec,  $m = Q / x V_f$

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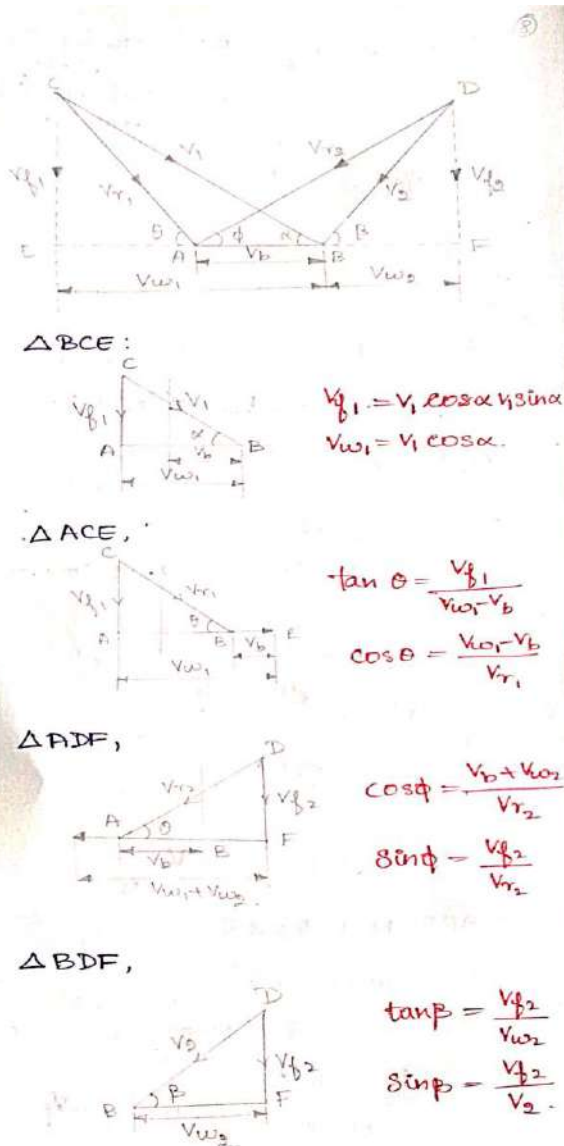


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### Boiler mountings:

Pressure gauge, steam stop valve, Feed check valve, Safety valve, Fusible plug, Blow-off cock, water level indicator, Man holes, mud hole.

### Boiler accessories:

Economiser, Air preheater, Superheater, feed pump, Steam injector, steam trap, steam separator, feed water heater.

$$\text{Actual evaporation } m_a = \frac{\text{mass of feed water}}{\text{mass of fuel used}} = \frac{m_w}{m_f}$$

$$\text{Equivalent evaporation } m_{eq} = \frac{m_a(h-h_w)}{2256.9}$$

$$\text{Boiler efficiency } \eta_b = \frac{m_a(h-h_w)}{CV}$$

$$\text{Factor of evaporation } F = \frac{(h-h_w)}{2256.9}$$

$$\text{Heat of steam } Q_b = m_a \times (h-h_w)$$

$$\text{Heat of feed water } Q_w = m_a \times c_p(T_{w2} - T_a)$$

$$\text{Heat used by air } Q_{air} = 14.25 \times c_p \times (T_{a1} - T_a)$$

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preheat section.

Use of an external box.

Use of a counter-current flow.

design.

Internal heat recycle:

parameters:

- expected airflow and average temperature
- expected hours of operation per year.
- current energy rates and utility costs for the facility.

In-plant recovery:

auxiliary or adjoining systems.

RESIDUAL HEAT TO POWER CONVERSION:

Conventional steam power plant using a Rankine cycle,  
Organic Rankine cycle,  
Ammonia-water systems,  
Kalina cycle,  
Ammonia-water upco-Gen<sup>®</sup> system,  
Thermo-electric power generation.

METHODS OF COMPOUNDING:

Velocity compounding:

$$\text{Total efficiency } \eta = \frac{2U_1(U_{w1} + U_{w2} + U_{w3})}{C_1^2 + C_3^2}$$

$$\text{Total axial thrust } F_a = m[(C_{y1} + U_{y3}) - (C_{y2} + U_{y4})]$$

Pressure compounding:

Enthalpy drop per stage,

$$(\Delta h)_{\text{stage}} = \frac{(\Delta h)_{\text{total}}}{n} = \frac{h_1 - h_n}{n}$$

REHEAT FACTOR:

$$RF = \frac{\text{Cumulative heat drop}}{\text{Isentropic (or) Rankine heat drop}}$$

$$RF = \frac{\Delta h_c}{\Delta h_{isen}}$$

$$\text{Overall efficiency } \eta_o = \eta_{\text{stage}} \times RF$$

### UNIT-IV

#### COGENERATION AND RESIDUAL HEAT RECOVERY

##### COGENERATION

Combined Heat power.

fuel  $\rightarrow$  Natural gas, oil, diesel, propane, wood, bagasse, coal.

TYPES:

- \* Topping cycle power plant,
- \* Bottoming cycle power plant.

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Topping cycle power plant:

Power is generated ~~to the~~ prior to the delivery of thermal energy to the process.

Types:

Gas turbine topping CHP,  
steam turbine topping CHP,  
combined-cycle topping  
CHP.

Bottoming cycle power plant:

Power is generated from the recovery of process thermal energies which is rejected to the heat sink.

cycle analysis:

Heat added in boiler  $Q_s = m_s(h_1 - h_4)$

Heat used in process heating,  $Q_p = m_1(h_2 - h_7) + m_2(h_3 - h_7)$

Turbine work  $W_T = (m_s - m_1) \times (h_1 - h_3) + (m_s - m_1 - m_2) \times (h_3 - h_4)$

net work  $W_{net} = W_T - W_P$   
 $(m_1 + m_2)$

$m_s$  mixing chamber  $\rightarrow (m_s - m_1 - m_2)$

utilization factor  $E_{cogen} = \frac{W_{net} + Q_p}{Q_s}$

trigeneration cycle  $E_{trigen} = \frac{W_{net} + Q_p + Q_c}{Q_s}$

Work ratio =  $\frac{\text{Network output}}{\text{Turbine output}}$

Back work ratio =  $\frac{W_P}{W_T}$

HEAT PIPE: (Low-medium temp)

Thermal energy absorbing and transferring system.

transfers 100 times more thermal energy than copper.

Heat pipe exchanger - light weight compact heat recovery system.

operated with 60% - 80% heat recovery capability.

UTILISATION OF RESIDUAL HEAT:

In process recycling

In plant recovery,

Electricity generation

In process recycling:

\* combustion air preheating -

$$Q = m C_p \Delta T$$

\* Load (or) charge preheating  
use of an unfired load

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## 2.2 Catering to Student Diversity



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### RESIDUAL HEAT RECOVERY EQUIPMENT AND SYSTEMS:

High to ultra-high  
temperature ( $650^{\circ}$  to  $870^{\circ}\text{C}$ ):

Recuperative heat  
exchanger (Recuperators),  
convective recuperator,  
Metallic radiation  
recuperator,  
Radiation/convective  
hybrid recuperator,  
Ceramic recuperators,  
Self-recuperative  
burners.

Regenerative heat  
exchanger (Regenerators)  
Waste heat recovery  
boilers.

Low to Medium temperature  
( $120^{\circ}$  to  $650^{\circ}\text{C}$ ):

Heat wheels,  
Heat pipes,  
Economisers,  
Shell and tube heat  
exchangers,  
Plate heat exchanger  
Run around coil exchanger.

### Low-Temperature (below $190^{\circ}\text{C}$ ):

- \* Plastic heat exchanger,
- \* Direct contact heat exchanger,
- \* Heat pumps,
- \* Thermo compressor.

### UNIT-5

### REFRIGERATION AND AIR- CONDITIONING

#### Refrigerant:


- \* Ammonia ( $\text{NH}_3$ ),
- \* Carbon dioxide ( $\text{CO}_2$ ),
- \* Sulphur dioxide ( $\text{SO}_2$ ),
- \* Freon (R-11, R-12, R-21,  
R-22 and R-502).

#### VAPOUR COMPRESSION REFRIGERATION SYSTEM:

Compressor,  
Condenser,  
Receiver,  
Expansion valve,  
Evaporator.

#### SUPERHEATING REFRIGERANT

$$\text{COP} = \frac{h_1 - h_4}{h_2 - h_1} = \frac{h_1 - h_{f3}}{h_2 - h_1}$$

  
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Evaporative cooling process. <sup>(18)</sup>

TYPES OF AIR CONDITIONING:

- comfort air conditioning system,
- Industrial air conditioning system.
- Winter air conditioning system,
- Summer air conditioning system,
- Year-round air conditioning system,
- Unitary air conditioning system,
- central air conditioning system.

HEAT LOAD ESTIMATION:

Room sensible heat load (RSH),

$$RSH = Q_1 + Q_2 + Q_3 + Q_4 + Q_5 + Q_6$$

Effective room sensible heat load [ERSH];

$$ERSH = RSH + \text{Effect of BPF.}$$

Room latent heat load (RLH):

$$RLH = B_1 + B_2 + B_3 + B_4$$

Effective room latent heat load [ERLH]

$$ERLH = RLH + \text{Effect of BPF}$$

Total sensible heat (TSH) or Grand sensible Heat (GSH): <sup>(19)</sup>

$TSH = ERSH + \text{sensible heat of outside air} + \text{Dehumidifier pump horse power and return duct leakage gain.}$

Total Latent Heat (TLH) or Grand latent heat (GLH)

$$TLH = ERLH + \text{Latent heat of Return duct leakage gain.}$$

Grand total heat Load (GTH)

$$GTH = TSH + TLH \text{ (or) } GSH + GLH$$

COOLING TOWER:

Types:


- Wet type,
- Dry type.

wet type:

Atmospheric or natural draught cooling tower,  
Mechanical draught cooling towers.

Dry type:

- Direct type,
- Indirect type.

  
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### SUPERCOOLING REFRIGERANT

$$COP = \frac{h_1 - h_4}{h_2 - h_1} = \frac{h_1 - h_{f3}}{h_2 - h_1}$$

### COMBINED REFRIGERANT

$$COP = \frac{h_1 - h_4}{h_2 - h_1} = \frac{h_1 - h_{f3}}{h_2 - h_1}$$

### WORKING PRINCIPLE OF AIR CYCLE:

Process 1-2:

work input to the

compressor,  $W_C = C_p(T_2 - T_1)$

Process 2-3: Heat rejected in heat exchanger,  $Q_{2-3} = C_p(T_2 - T_3)$ .

Process 3-4: Work developed by expander  $W_E = C_p(T_3 - T_4)$

Net work required  $W_{net} = W_C - W_E$

Process 4-1:

Heat absorbed in cold

storage  $Q_{4-1} = \text{Refrigeration effect (R.E.)}$

Heat absorbed in cold

storage  $Q_{4-1} = C_p(T_1 - T_4)$

$W = \text{Heat rejected } (Q_{2-3}) - \text{Heat absorbed } (Q_{4-1})$

$$W = C_p(T_2 - T_3) - C_p(T_1 - T_4)$$

compressor work,

$$W_C = \frac{nR}{n-1} (T_2 - T_1)$$

expander work,

$$W_E = \frac{nR}{n-1} (T_3 - T_4)$$

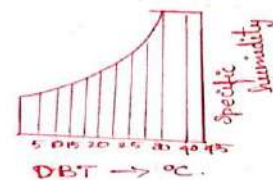
### VAPOUR ABSORPTION REFRIGERATION SYSTEM:

- \* Ammonia cooler system,
- \* Lithium bromide-water system.

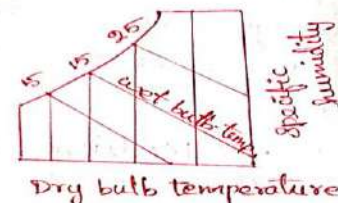
### PSYCHROMETRY:

Psychrometric chart:

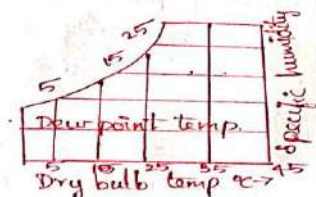
i) Dry bulb temperature lines:




ii) Wet bulb temperature lines:



iii) Dew point temperature line



  
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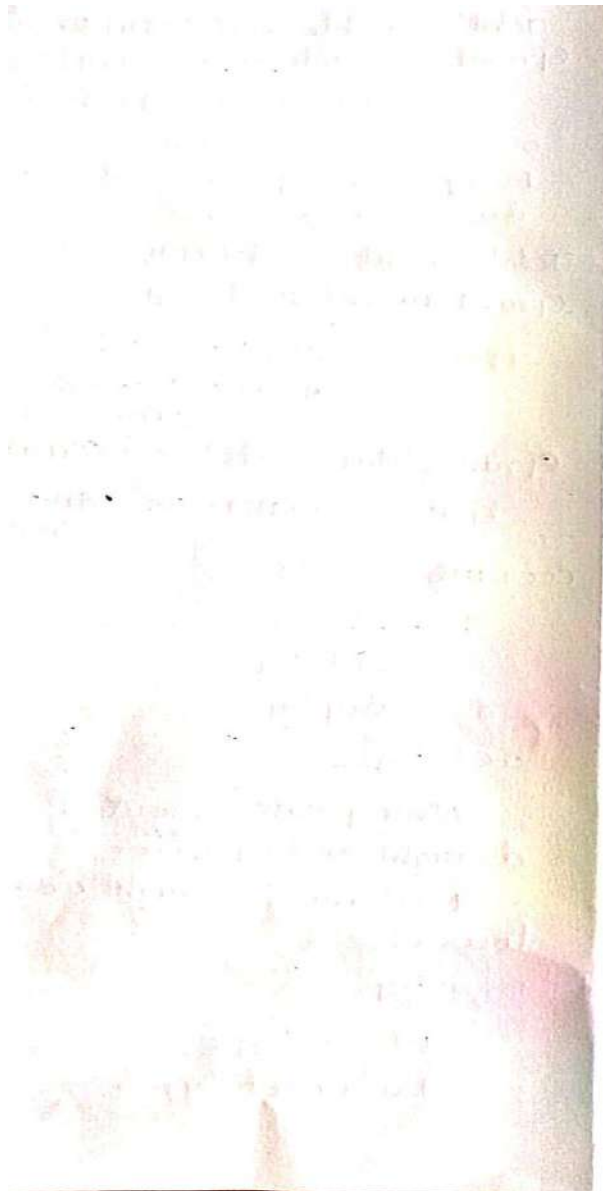


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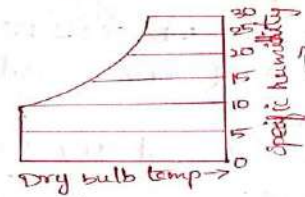
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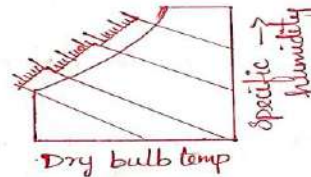
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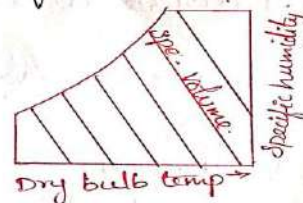
iv) specific humidity lines:



v) Enthalpy lines:




vi) specific volume lines:



AIR CONDITIONING PROCESSES:

Sensible heating process,  
Sensible cooling process,  
Humidification process,  
Dehumidification process,  
Heating and humidification  
process,  
cooling and dehumidification  
Process  
Adiabatic mixing air  
streams process,

  
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## COACHING CLASS TIME TABLE



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Document ID	2021-22/ODD/ NSIT/MECH/ICT	Document Name	ICT, Time Table
<b>ICT &amp; MODEL EXAM -I SCHEDULE</b>			
23.10.2021			
Date/Day	II - MECH	III - MECH	IV - MECH
08.11.2021 09.11.2021 10.11.2021	ME8351- Manufacturing Technology -1	ORO551 - Renewable Source of Energy	ME8097 - Non Destructive Testing and Evaluation
11.11.2021 12.11.2021 13.11.2021	EE8353 - Electrical Drives and Control	ME8501 – Metrology & Measurements	ME8073 - Unconventional Machining Processes
15.11.2021 16.11.2021 17.11.2021	CE8394 – Fluid Mechanics & Machinery	ME8593 - Design of Machine Elements	ME8792 - Power Plant Engineering
18.11.2021 19.11.2021 20.11.2021	ME8391 - Engineering Thermodynamics	ME8954 – Dynamics of Machines	ME8793 - Process Planning and Cost Estimation
22.11.2021 23.11.2021 24.11.2021	MA8353 - Transforms and Partial Differential Equations	ME8395 – Thermal Engineering - II	OIE751 - Robotics
25.11.2021	ME8391 - Engineering Thermodynamics	ME8593 - Design of Machine Elements	ME8791 - Mechatronics
26.11.2021	CE8394 – Fluid Mechanics & Machinery	ME8954 – Dynamics of Machines	
27.11.2021	ME8351- Manufacturing Technology -1	ME8395 – Thermal Engineering - II	

*[Signature]* 25-10-21  
HOD/MECH

*[Signature]* 25-10-21  
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*[Signature]*  
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## **COACHING CLASS ATTENDANCE**

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ACADEMIC YEAR 2020-21(ODD SEM)

### MARK STATEMENT AND ATTENDANCE OF SLOW & MEDIUM & FAST LEARNERS

Sub.code / Sub.Name: OR0551-RENEWABLE SOURCE OF ENERGY				STAFF: Mr.S.JEEVANANTHAM		
S.No.	Register Number	Student Name	Category	ICT-1 16.06.2021	ICT-2 17.06.2021	MODEL EXAM 18.06.2021
1	611719114015	VIGNESH.S	A	66	AB	AB
2	611719114006	KATHIRESAN.S (32.800)(18.000)	A	AB	63	65
Total Number of Students				02	02	02
Number of Students Appeared				01	01	01
Number of Students Absent				01	01	01
Number of Students Passed				01	01	01
Number of Students Failed				-	-	-
Pass Percentage				100%	100%	100%
3	611719114007	KEERTHANA.K (30.000)(18.000)	B	70	56	70
4	611719114301	DHINESH KUMAR.R (10.000)(60.000)	B	76	68	78
5	611719114307	TAMILARASAN (0.000)(18.000)	B	70	60	64
Total Number of Students				3	3	3
Number of Students Appeared				3	3	3
Number of Students Absent				-	-	-
Number of Students Passed				3	3	3
Number of Students Failed				-	-	-
Pass Percentage				100%	100%	100%
6	611719114009	SANTHOSH KUMAR.P (45M)(22.000)	C	70	64	71
7	611719114014	VIGNESH.R (51M)(48.500)	C	69	67	74
8	611719114303	MOHANA SUNDAR.G Am 23	C	63	63	73
9	611719114304	PRATHEEP.T (10P)(5.000)	C	56	53	53
Total Number of Students				4	4	4
Number of Students Appeared				4	4	4
Number of Students Absent				-	-	-
Number of Students Passed				4	4	4
Number of Students Failed				-	-	-
Pass Percentage				100%	100%	100%
10	611719114001	ARAVINDH.S (36K)(21K P)	D	74	65	75
11	611719114003	ELANGO.V	D	AB	AB	AB
12	611719114012	SRIDHAR.M (45K)(17,500)	D	64	66	71
13	611719114002	DINESH KUMAR.R.K	D	AB	AB	AB
14	611719114004	GOKUL.P Am 23	D	46	60	58
15	611719114010	SANTHOSH KUMAR.S	D	AB	AB	AB
16	611719114302	DINESH KUMAR.R (25K)(10.5K)	D	37	48	52
17	611719114305	SANTHOSH KUMAR.M	D	AB	AB	AB
18	611719114306	SHABUDEEN M (10K)(6K P)	D	52	55	AB
Total Number of Students				09	09	09
Number of Students Appeared				05	05	05
Number of Students Absent				04	04	04
Number of Students Passed				03	04	04
Number of Students Failed				02	01	0
Pass Percentage				60%	80%	100%
Subject In charge Signature				[Signature]	[Signature]	[Signature]
HoD Signature				[Signature]	[Signature]	[Signature]
Principal Signature				[Signature]	[Signature]	[Signature]
Total No. of Students appeared				13	13	12
Passed				11	12	12
Pass Percentage				85%	92%	100%

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**ANSWER SCRIPT**

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61118114055  
R. Sudhakar  
14/11/21  
Power plant Engineering  
ME8792  
ICT - II  
Mechanical Engineering  
07.12.2021

12  
100


Part - A

1. Nuclear fission.

- \* Nuclear fission is defined as heavy nucleus is splitted into two or more lighter nuclei of an atom.
- \* Nuclear fission is formed an chain reaction.

2. Control rod.

- \* To Prevent the melting fuel rod.
- \* At Start nuclear power plant when the it was cooled water.
- \* Control rod can Stopped the reactor when emerging condition.
- \* Control rod can used at rate of fission.

  
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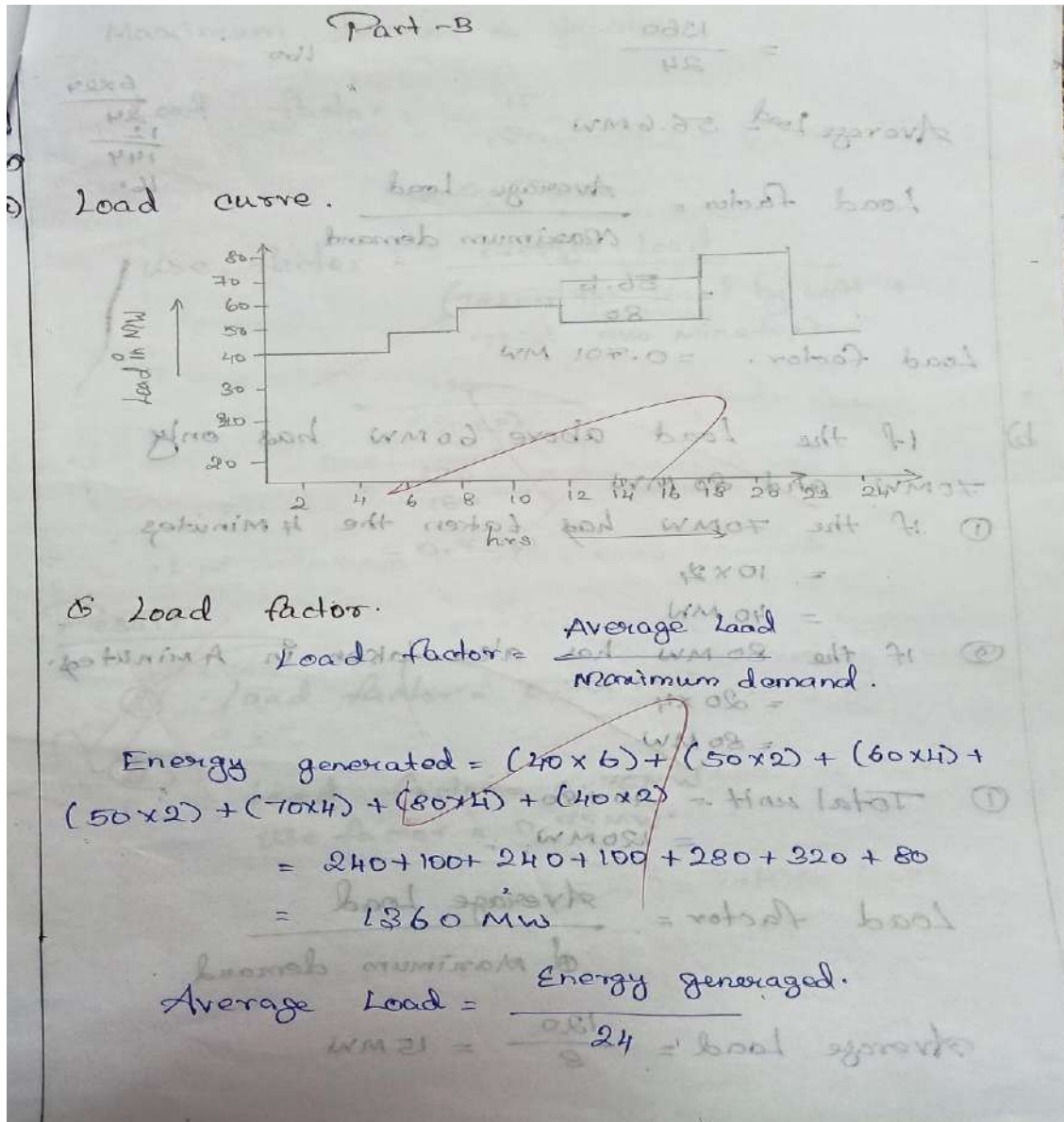


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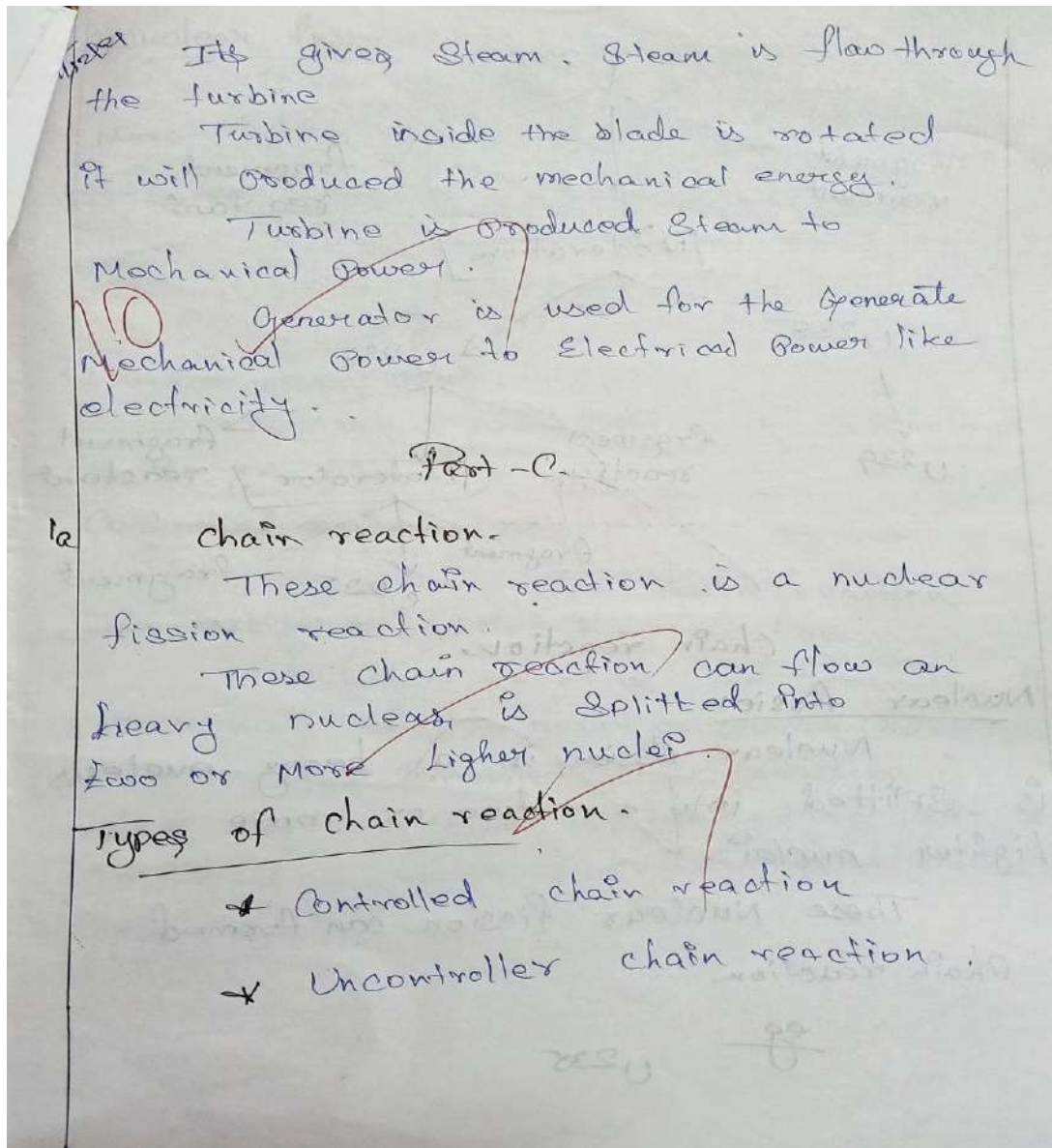



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Moderator is used for the slow down ;  
the neutron from high velocity without  
disturbing them.  
In control rod is prevent the  
melting fuel rod.  
At starting nuclear power plant when  
it was cooled.  
Control rod can stopped the reactor  
when emerging condition.  
Uncontrolled chain reaction.  
These uncontrolled chain reaction  
can not be stopped the reactor when  
emerging condition.  
At starting nuclear power plant when  
it was cooled.

  
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**ADVANCED LEARNERS**

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## **ONLINE APTITUDE CLASSES**



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unacademy

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### List of PSU's Through GATE

- Delhi Metro Rail Corporation (DMRC)
- GAS AUTHORITY OF INDIA LTD (GAIL)
- Mahanagar Telephone Nigam Limited (MTNL)
- Bharat Electronics Limited (BEL)
- Bharat Heavy Electricals Limited (BHEL)
- INDIAN RAILWAYS

Junior Executive Post

Kowsalya joined

Swetha joined

Saranya joined

Suruthi joined

Kalaisevi joined

Muthukrish... joined

Aarthi joined

Seethakaks... joined

Aishwarya joined

Comment

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### APECET Topics Weightage

Most Important Topics	Important Topics	Least Important Topics
Matrices	Differentiation	Probability, Integration by parts, substitution and partial fraction
Partial Fraction	Integration	Properties of triangles
Trigonometry	Differential Calculus	Mean, Variance and Standard Deviation
Complex Numbers	Sets, Relations and Mapping	Maxima, Minima, Bayes' Theorem
Analytical Geometry	Statistics, Inverse Trigonometry	Tangents and Normal
Differentiation & its application	Distance Formula, Section Formula	Scalar Triple Products
Integration & its application		
Differential equations		

Use Code **ENGGURU** Get Maximum Benefits

Lavijoseph joined

Chuneshwar joined

Shailendra joined

Kuntrapoka... joined

Ayush joined

You joined

Comment

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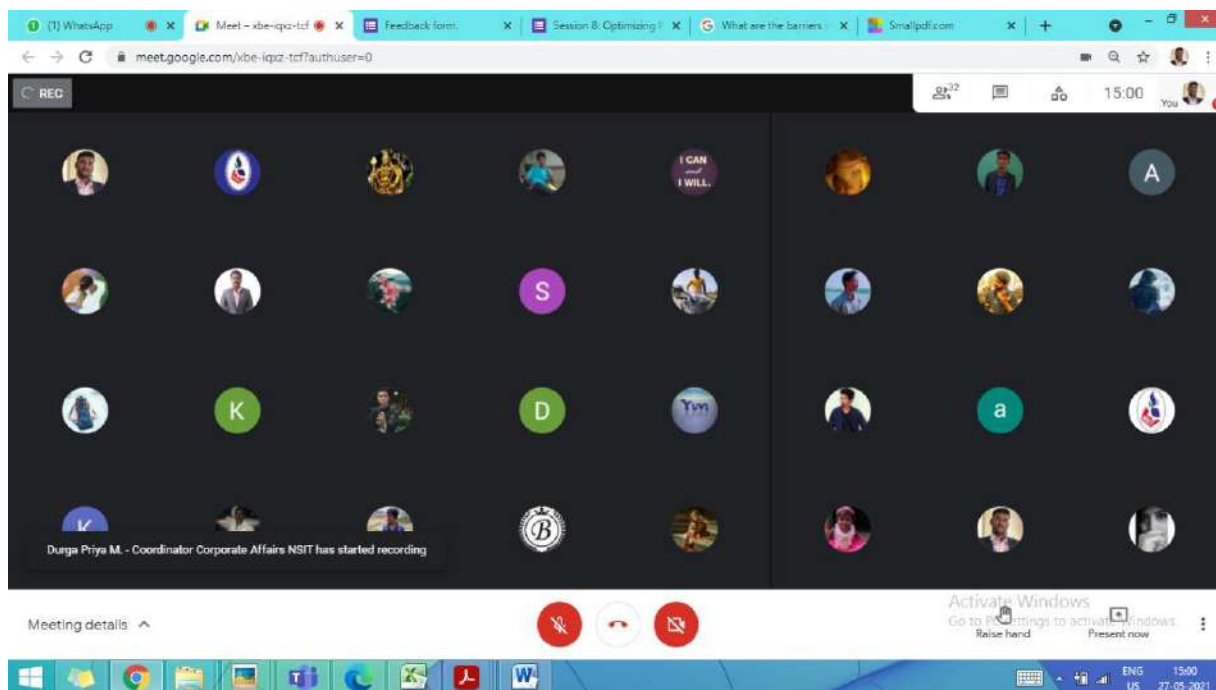


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Salem Bengaluru Highway NH - 7, Poosaripatty, Kadayampatty Taluk, Salem - 636305.

Admin Office: 93449-72274, Admission Cell: 93449-72275, 73977-56003,  
admin@nsit.edu.in, www.nsit.edu.in



## ONLINE TRAINING CLASSES BASED ON PANDEMIC PERIOD IN GOOGLE MEET

  
Dr. V. MONUSAMI, M.E., Ph.D.,  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.

## 2.2 Catering to Student Diversity



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## WORKSHOP CERTIFICATES

## 2.2 Catering to Student Diversity



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admin@nsit.edu.in, www.nsit.edu.in



**CSI COLLEGE OF ENGINEERING - OOTY**  
Affiliated to Anna University-Chennai & Approved by  
AICTE New Delhi



## E-Certificate of Participation

This is to certify that Dr./Prof./Mr./Ms. Thavamani J  
of Narasu's Sarathy Institute of Technology has participated  
in Two Days National Workshop on "GEOMETRICAL PRODUCT SPECIFICATION"  
organised by CSI College of Engineering Department of Mechanical Engineering in  
Association with ISTE held on 01.06.2021 & 02.06.2021.

**Dr. J. Joshua Gnana Sekaran**  
Principal

**Dr. S. Sam Chelladurai**  
VP/HOD/MECH

**Dr. G. Dhanraj**  
Convenor

**Dr. V. MUNUSAMI, M.E., Ph.D.,**  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.



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admin@nsit.edu.in, www.nsit.edu.in



## CERTIFICATE OF PARTICIPATION

This is to certify that

Thavamani J

has attended a webinar on

Basics of Solar Photovoltaic System

Organised by the **Department of Electrical and Electronics Engineering,**

**KARPAGAM INSTITUTE OF TECHNOLOGY, COIMBATORE**

on 13 May 2020

Certificate ID OUD56M-CE000354

Presented by:

ENG. SAJID SAYYAD, Lead-Design

ENG. ABUZER BANDERKAR, Lead-Technical

Adapt Natural Power Company

Dr.P.Manimaran  
PRINCIPAL

Dr. V. MUNUSAMI, M.E., Ph.D.,  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.

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admin@nsit.edu.in, www.nsit.edu.in



## Mandsaur University

SH-31, Mhow Necmuchi By-Pass Road Mandsaur - 458001.  
Madhya Pradesh, India

Department of Electrical & Electronics Engineering

### CERTIFICATE OF PARTICIPATION

This is certified that

**Thavamani J**

Narasu's Sarathy Institute of Technology


has successfully completed National level Online Quiz on "Power Electronics & Drives" Organized by Department of Electrical & Electronics Engineering, Mandsaur University, Mandsaur on 27 May 2021.

  
**Coordinator**

Mr. Siddheshwar Kar  
AP, Dept. of EEE

  
**Mr. Virendra Jain**  
HOD, Dept. of EEE

Made for free with Certify'em

  
**Dr. V. MONUSAMI, M.E., Ph.D.,**  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.

## 2.2 Catering to Student Diversity



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admin@nsit.edu.in, www.nsit.edu.in

## WEBINAR CERTIFICATES

## 2.2 Catering to Student Diversity

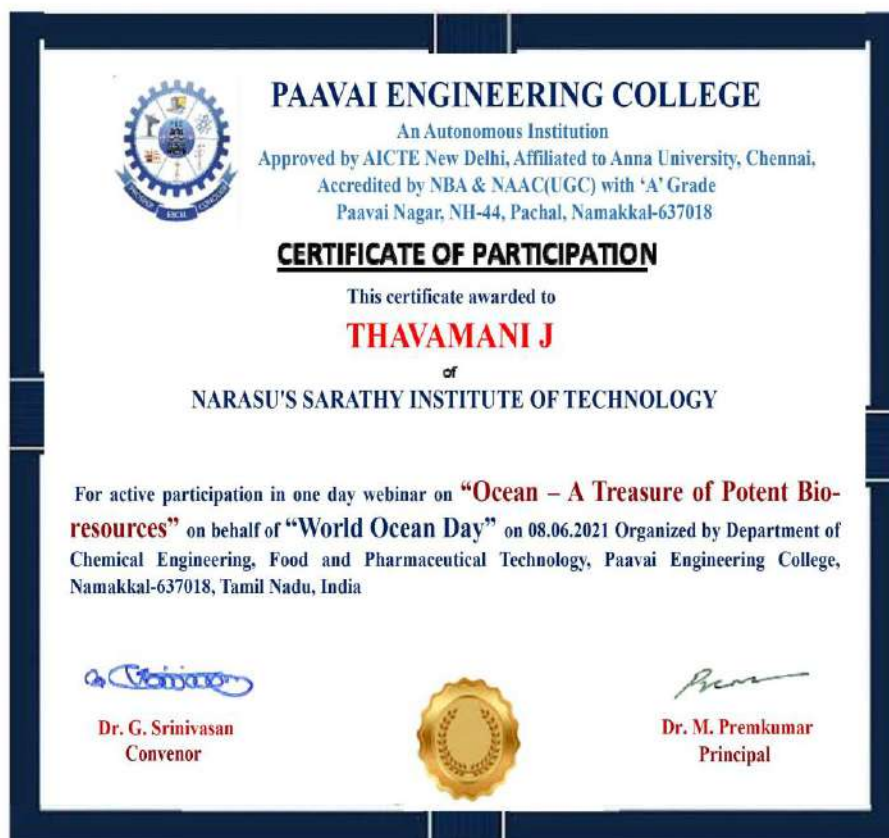



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admin@nsit.edu.in, www.nsit.edu.in



WIJXMK-CE000261

## ARASU ENGINEERING COLLEGE

Approved by AICTE-Affiliated to Anna University - Accredited by NAAC - Accredited by NBA - Recognized by UGC Under 2(f) & 12(B)  
Chennai Main Road, Kumbakonam - 612 501, Tamil Nadu, India.

### CERTIFICATE OF PARTICIPATION

This is to certify that Thavamani J has  
actively participated in the Webinar on "**Recent Advances in  
Rolling Contact Bearings**" organised by the Departments of  
Mechanical and Automobile Engineering, Arasu Engineering  
College, Kumbakonam on 29.05.2021 through online pedagogy.

Dr. T. Balamurugan,  
PRINCIPAL

Made for free with Certify'em

Dr. V. MONUSAMI, M.E., Ph.D.,  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.

## 2.2 Catering to Student Diversity



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admin@nsit.edu.in, www.nsit.edu.in



பதிவு எண்: 9/2019

## Tamizhan Siragugal Trust & Mattrathai Vithaipom

2/200/58, Lakshmipathi Nagar, Periyavallikulam, Aruppukottai



பதிவு எண்: 87/20-21


### Certificate of Participation

This is to certify that Thavamani J, from Narasu's Sarathy Institute of Technology has actively participated in the webinar on "Our Winged Jewels" organized by Tamizhan Siragugal Trust and Mattrathai Vithaipom as a part of webinar series of "என் சுவாசக் காற்றே" on 05-06-2021. We wish you success in all your future endeavours.

ON24E8-CE000083

This is an electronically generated certificate hence does not require signature

Made for free with Certify'em

  
Dr. V. MONUSAMI, M.E., Ph.D.,  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.



## 2.2 Catering to Student Diversity



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admin@nsit.edu.in, www.nsit.edu.in

WWW.SAEC.AC.IN

E-Certificate No: SAME031816

### S.A. ENGINEERING COLLEGE

(An Autonomous Institution affiliated to Anna University, Chennai)  
Accredited by NBA, NAAC 'A' Grade & ISO 9001:2015 Certified Institution  
Poonamallee - Avadi Road, Veeraraghavapuram, Thiruverkadu, Chennai - 600 077.

## Certificate of Participation

This is to certify that

**MR. VIGNESH**  
NARASU'S SARATHY INSTITUTE OF TECHNOLOGY

has participated in a Webinar on "Insights to INDUSTRY 4.0" on 29<sup>th</sup> May 2020  
organized by Department of Mechanical Engineering, S.A. Engineering  
College (Autonomous), Chennai, India.

**Mr. C. Dhanesh**  
Convenor

**Dr. N. Pragadish**  
HoD / Mech.

**Dr. G.S. Kumarasamy**  
Principal

WWW.SAEC.AC.IN

**Dr. V. MUNUSAMI, M.E., Ph.D.,**  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.



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**GATE EXAM ADMIT CARD, TANSET ADMIT CARD WITH SCORE  
CARD**

## 2.2 Catering to Student Diversity



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admin@nsit.edu.in, www.nsit.edu.in



K186M74 (Enrollment ID)

ARUN PRAKASH S  
(Full Name of the Applicant)



S. Arun Prakash

17 Mar 2000

(D.O.B)

Male

(Gender)

OBC-NCL

(Category)

Indian  
National

+91-9787375696

(Parent/Guardian's Mobile Number)

SEKAR N

(Parent/Guardian's Name)

### Communication Address

3/103 THERKU KATTU VALAVU  
M.CHETTIPATTI(PO)  
OMALUR (TK)  
SALEM  
Tamil Nadu 636455  
+91-9629193240 (Mobile No.)  
arunmahii1832@gmail.com

### Qualification Details

B.E.  
Mechanical Engg.  
Graduated: No; Year of Graduation: 2022  
NARASUS SARATHY INSTITUTE OF TECHNOLOGY  
POOSARIPATTY  
Tamil Nadu 636305

### Payment Details

Payment Mode	Transaction Ref. No	Transaction Date	Amount	Payment For
Online	order_HxP3uj270VaBMm	9/15/21 10:17 AM	INR 1500.00	Registration

I confirm that I fulfil the eligibility criteria to appear for the Graduate Aptitude Test in Engineering (GATE 2022) examination and I, myself have filled up the entire form in the portal, I have fully understood each and every point in the form and filled up the details accordingly. I agree to strictly comply with the code of conduct for GATE 2022 examination as detailed in Appendix B of the Information Brochure. I confirm that the information provided by me in this form is correct in all respect. I also confirm that I am NOT filling more than ONE form for myself.

If any of the information provided by me is found to be incorrect at any time later, my candidature for GATE 2022 will be cancelled. This cancellation of my candidature can happen either before, during or after the examination, including the time after generation of my GATE 2022 score card, if any.

I also understand that GATE is NOT an admission ensuring examination, and qualifying in GATE examination does NOT guarantee admission / scholarship / job. GATE 2022 committee is NOT liable for any legal obligations related to admission / job.

I shall be liable for legal action for providing any type of false information. GATE 2022 committee's decision will be final and legally binding on me.

e-Signature: ARUN PRAKASH S

Digital Fingerprint: a245b773443c8d6188f4197720a64a06

### GATE Exam Details



(Mechanical Engineering)

Exam City 1: Salem (TN)

Exam City 2: Coimbatore (TN)

Exam City 3: Tiruchirapalli (TN)

### Zonal GATE Office Contact

Chairperson, GATE  
Indian Institute of Technology Madras  
Chennai 600036

Dr. V. MONUSAMI, M.E., Ph.D.,  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.

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admin@nsit.edu.in, www.nsit.edu.in

Zone/Scrutiny Code

**70B**

**K213Y88** (Enrollment ID)

**THAVAMANI JAYARAMAN**

(Full Name of the Applicant)



K213Y88



*(Signature)*

**27 May 2001**

(D.O.B)

**Female**

(Gender)

**OBC-NCL**

(Category)

**Indian  
National**

**+91-9524550054**

(Parent/Guardian's Mobile Number)

**JAYARAMAN V**

(Parent/Guardian's Name)

### Communication Address

2/73, T.Kanigarahalli(po),  
thoppur (via)  
nallampalli (tk)  
Dharmapuri  
Tamil Nadu 636352  
**+91-9629336934** (Mobile No.)  
**thavasana001@gmail.com**

### Qualification Details

**B.E.**  
**Mechanical Engg.**  
**Graduated: No; Year of Graduation: 2022**  
**NARASU SARATHY INSTITUTE OF TECHNOLOGY**  
**Salem**  
**Tamil Nadu 636305**

### GATE Exam Details

GATE Paper Code

**ME**

(Mechanical Engineering)

Exam City 1: **Salem (TN)**  
Exam City 2: **Coimbatore (TN)**  
Exam City 3: **Tiruchirapalli (TN)**

### Zonal GATE Office Contact

Chairperson, GATE  
Indian Institute of Technology Madras  
Chennai 600036

I confirm that I fulfil the eligibility criteria to appear for the Graduate Aptitude Test in Engineering (GATE 2022) examination and I, myself have filled up the entire form in the portal. I have fully understood each and every point in the form and filled up the details accordingly. I agree to strictly comply with the code of conduct for GATE 2022 examination as detailed in Appendix B of the Information Brochure. I confirm that the information provided by me in this form is correct in all respect. I also confirm that I am NOT filling more than ONE form for myself.

If any of the information provided by me is found to be incorrect at any time later, my candidature for GATE 2022 will be cancelled. This cancellation of my candidature can happen either before, during or after the examination, including the time after generation of my GATE 2022 score card, if any.

I also understand that GATE is NOT an admission ensuring examination, and qualifying in GATE examination does NOT guarantee admission / scholarship / job. GATE 2022 committee is NOT liable for any legal obligations related to admission / job.

I shall be liable for legal action for providing any type of false information. GATE 2022 committee's decision will be final and legally binding on me.

Digital Fingerprint: 837d9373c6163ba93aa7cc28e04da5f8

**PROVISIONAL APPLICATION SUBJECT TO PAYMENT**

*(Signature)*  
**Dr. V. MUNUSAMI, M.E., Ph.D.,**  
**PRINCIPAL**  
**Narasu's Sarathy Institute**  
**of Technology**  
**Poosaripatty, Salem - 636 305.**

## 2.2 Catering to Student Diversity



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admin@nsit.edu.in, www.nsit.edu.in

Zone/Scrutiny Code

**70B**

**K214V23** (Enrollment ID)

**G. SATHISH KUMAR**

(Full Name of the Applicant)



K214V23



G. Sathishkumar

**15 Sep 2000**

(D.O.B)

**Male**

(Gender)

**OBC-NCL**

(Category)

**Indian  
National**

**+91-7708171243**

(Parent/Guardian's Mobile Number)

**M. GOVINDHASAMY**

(Parent/Guardian's Name)

### Communication Address

Pulikarai  
pullalapatty  
Dharmapuri  
Dharmapuri  
Tamil Nadu 636808  
**+91-7708171243** (Mobile No.)  
**gsathishkumar1592000@gmail.com**

### Qualification Details

**B.E.**  
**Mechanical Engg.**  
**Graduated: No; Year of Graduation: 2022**  
**NARASUS SARATHY INSTITUTE OF TECHNOLOGY**  
**POOSARAPATTI**  
**Tamil Nadu 636305**

### Payment Details

Payment Mode	Transaction Ref. No	Transaction Date	Amount	Payment For
Online	order_HxkZ5rEmOLIsiS	9/16/21 11:00 AM	INR 1500.00	Registration

I confirm that I fulfil the eligibility criteria to appear for the Graduate Aptitude Test in Engineering (GATE 2022) examination and I, myself have filled up the entire form in the portal. I have fully understood each and every point in the form and filled up the details accordingly. I agree to strictly comply with the code of conduct for GATE 2022 examination as detailed in Appendix B of the Information Brochure. I confirm that the information provided by me in this form is correct in all respect. I also confirm that I am NOT filling more than ONE form for myself.

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**e-Signature:** G SATHISHKUMAR

**Digital Fingerprint:** f6fc0971d5975d0979bd47759d4b9a15

### GATE Exam Details

GATE Paper Code

**ME**

(Mechanical Engineering)

Exam City 1: **Salem (TN)**  
Exam City 2: **Coimbatore (TN)**  
Exam City 3: **Namakkal (TN)**

### Zonal GATE Office Contact

Chairperson, GATE  
Indian Institute of Technology Madras  
Chennai 600036

**Dr. V. MUNUSAMI, M.E., Ph.D.,**  
**PRINCIPAL**  
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admin@nsit.edu.in, www.nsit.edu.in



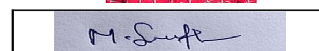
K319G82 (Enrollment ID)

SUJITH M

(Full Name of the Applicant)



K319G82



16 May 2001

(D.O.B)

Male

(Gender)

OBC-NCL

(Category)

Indian  
National

+91-7824900510

(Parent/Guardian's Mobile Number)

MOHAN

(Parent/Guardian's Name)

### Communication Address

4/18, PETHANUR, MOTTANKURICHI(PO),  
PAPPIREDDIPATTI (TK)  
DHARMAPURI-635302  
Bommidi  
Tamil Nadu 635302  
+91-6383661302 (Mobile No.)  
sujith01m@gmail.com

### Qualification Details

B.E.  
Mechanical Engg.  
Graduated: No; Year of Graduation: 2022  
NARASUS SARATHY INSTITUTE OF TECHNOLOGY  
Poosaripatty  
Tamil Nadu 636305

### GATE Exam Details



(Mechanical Engineering)

Exam City 1: Salem (TN)  
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### Zonal GATE Office Contact

Chairperson, GATE  
Indian Institute of Technology Madras  
Chennai 600036

### Payment Details

Payment Mode	Transaction Ref. No	Transaction Date	Amount	Payment For
Online	order_Hzyw2L4sxysubh	9/27/21 2:55 PM	INR 1500.00	Registration

I confirm that I fulfil the eligibility criteria to appear for the Graduate Aptitude Test in Engineering (GATE 2022) examination and I, myself have filled up the entire form in the portal. I have fully understood each and every point in the form and filled up the details accordingly. I agree to strictly comply with the code of conduct for GATE 2022 examination as detailed in Appendix B of the Information Brochure. I confirm that the information provided by me in this form is correct in all respect. I also confirm that I am NOT filling more than ONE form for myself.

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e-Signature: Sujith.M

Digital Fingerprint: 4d44c9c04d6562c4ab2fb9390c58a4dd

Dr. V. MONUSAMI, M.E., Ph.D.,  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.

## 2.2 Catering to Student Diversity


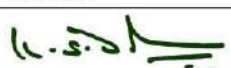



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admin@nsit.edu.in, www.nsit.edu.in

TANCET 2021 TAMIL NADU COMMON ENTRANCE TEST ANNA UNIVERSITY, CHENNAI 600025 SCORE CARD		
Registration Number	19113255	 Signature of the candidate
Name of the Candidate	AFRITH J	
Date of Birth	20-07-2000	
Gender	Male	
Community	BCM	
Nativity	Tamil Nadu	
Nationality	Indian	
PERCENTILE SCORE		
PROGRAMME	IN FIGURES	IN WORDS
M.B.A	---	---
M.C.A	---	---
M.E/M.Tech/M.Arch/M.Plan	56.155	FIVE SIX POINT ONE FIVE FIVE
		 SECRETARY, TANCET
IMPORTANT NOTE		
Seperate advertisements will be released by the admitting authorities for admission. Hall Ticket should be produced with this Score Card during admission. This Score Card is valid only for the Academic Year 2021-2022.		
08-04-2021 09:51 AM		

  
Dr. V. MONUSAMI, M.E., Ph.D.,  
PRINCIPAL  
Narasu's Sarathy Institute  
of Technology  
Poosaripatty, Salem - 636 305.

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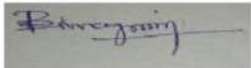



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admin@nsit.edu.in, www.nsit.edu.in

TAMILNADU COMMON ENTRANCE TEST Anna University, Chennai TANCET 2021 - APPLICATION		
Name of the candidate		
DIVAGARAN P		
Candidate Details		
Application Number : 112523	Gender : Male	
Date of Birth : 20-03-2000	Community : MBC/DNC	
Qualifying Examination		
Degree	Branch	Year of Passing
B.E	Mechanical Engineering	NA
Examination Details		
Center : Salem		
Exams. Registered : M.E/M.Tech/M.Arch/M.Plan Only		
Part III Choice : Mechanical Engineering		
Payment Details		
Amount : Rs.600		
Tran. ID : 07f4d1f5c9f7a0d89619		
Mode of Payment : NB		
Status : success		
Date: 08-02-2021 Time: 08:58 PM		 SIGNATURE OF THE CANDIDATE
Instruction to the candidate		
<ol style="list-style-type: none"><li>1. Verify the details provided in this application and in case of any discrepancy should immediately report to THE SECRETARY TANCET.</li><li>2. This application is only for your reference.</li><li>3. Remember your login email id and password till downloading the scorecard.</li></ol>		

  
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TANCET 2021 TAMIL NADU COMMON ENTRANCE TEST ANNA UNIVERSITY, CHENNAI 600025 SCORE CARD		
Registration Number	19113138	 Signature of the candidate
Name of the Candidate	DIVAGARAN P	
Date of Birth	20-03-2000	
Gender	Male	
Community	MBC/DNC	
Nativity	Tamil Nadu	
Nationality	Indian	
PERCENTILE SCORE		
PROGRAMME	IN FIGURES	IN WORDS
M.B.A	---	---
M.C.A	---	---
M.E/M.Tech/M.Arch/M.Plan	65.930	SIX FIVE POINT NINE THREE ZERO
 SECRETARY, TANCET		
IMPORTANT NOTE		
Seperate advertisements will be released by the admitting authorities for admission. Hall Ticket should be produced with this Score Card during admission. This Score Card is valid only for the Academic Year 2021-2022.		
08-04-2021 06:54 AM		

  
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**SPECIAL INTEREST GROUP**

**CLASSES**

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### ADVANCED CADD MODELING CENTRE PRODUCT DESIGN FOR MECHANICAL ENGINEERING STUDENTS

  
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## INNAGURAL SESSION FOR CADD MODELLING CENTRE PRODUCT DESIGN

  
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**INTERACTION SESSION ON THE TITLE OF SOLID  
WORKS FOR MECHANICAL ENGINEERING  
STUDENTS**

  
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## HYUNDAI TRAINING PROGRAM

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HMI/HR/GTA/TC/702527

25.09.2020

### Training Completion Report

(Diploma Apprentice)

Name of the Apprentice : **Tamilarasan M**  
Contract Registration Number : **STNDP19609000037**  
Rate of Stipend : **Rs. 14500 /- Per month**  
Date of Commencement of Training : **05/08/2019**  
Date of Completion of Training : **25/09/2020**  
Shop Floor Training Attendance : **282 Days**  
Area of Training : **Press Shop**  
Assessment of Performance : **Good**

Note: The above training period is including lockdown period 22.03.2020 - 08.07.2020

For Hyundai Motor India Limited.,

(Ganesh M.)  
Senior Executive, Human Resources

Hyundai Motor India Ltd.

Regd. Office & Factory:  
Plot No. 11-1, SPICOT Industrial Park,  
Irungattukottai, Srirangam Taluk,  
Kancheepuram Dist.,  
Tamil Nadu-602 117, India.  
CIN : U28309TN1995PLC035577

Tel : 044 - 47100000

www.hyundai.com

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### 1.DIE CASTED SHEET METAL WORK IN HYUNDAI AUTOMATION

### 2. DIE CASTED WORK IN A SHEET METAL FOR A DOOR CONTENT FILE



### 3.CAR ROOFING FILES

  
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**STATE WISE PARTICIPATED  
SAMPLE CERTIFICATES**



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## **PROJECT MODELS SAMPLES**

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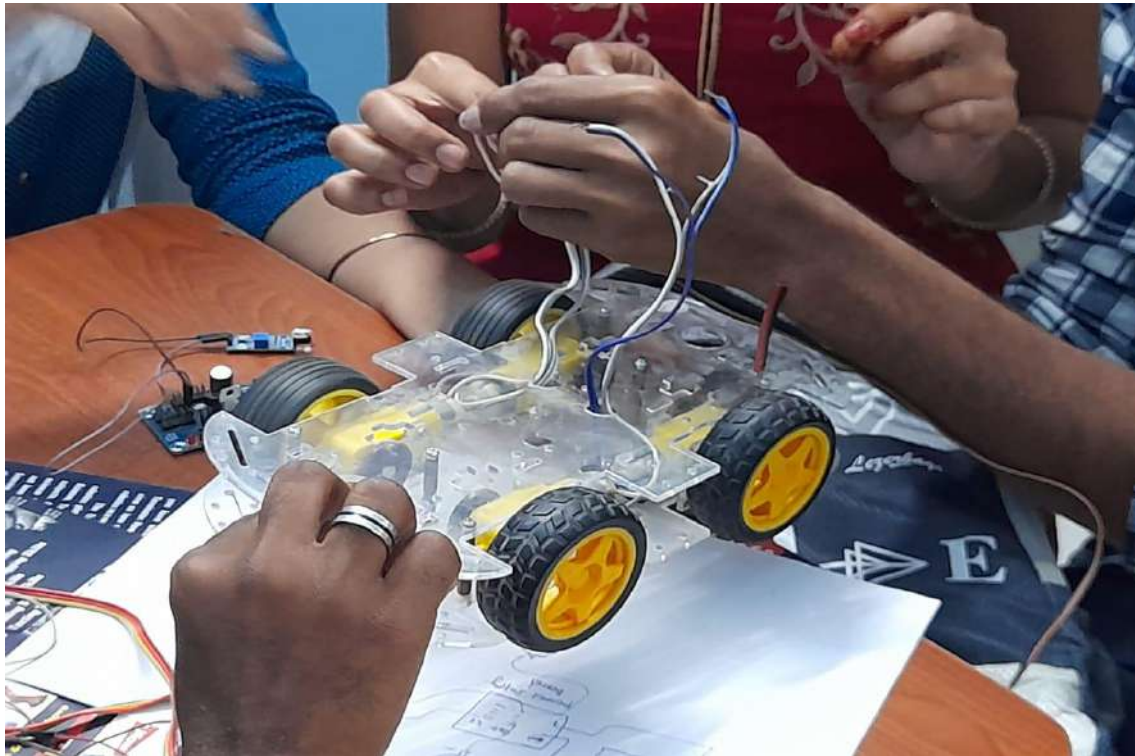


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### ROBOTICS SYSTEM PROJECT MODEL

  
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### DEMONSTRATIONS SESSION

  
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### BSR ROBOMAKERS PROJECT

  
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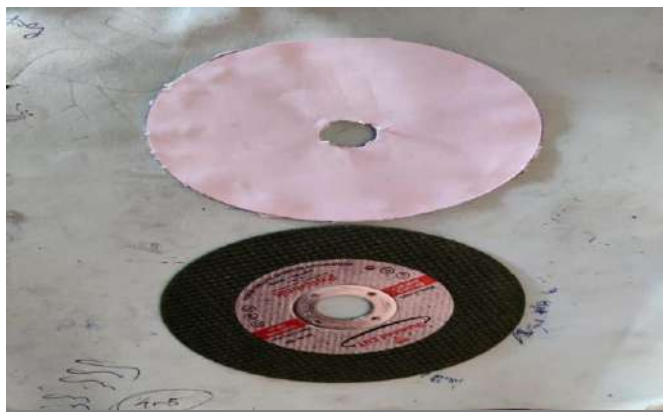
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### WITHOUT CUTTING WHEEL USING A4 SHEET



### CUTTING WHEEL



  
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## **VALUE ADDED COURSES CERTIFICATES**

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STUDENT NAME: GOPIKRISHNA.V

STUDENT ID No.: ON200879856

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State Director, Job Roll


Analysis for Online  
FEA Concepts  
Design models  
Ansys Solver GUI  
FEA Meshing  
Materials & Boundary Conditions  
1D, 2D & 3D Analysis  
Static Structural Analysis  
Fatigue Study  
Modal Analysis  
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STUDENT NAME: GOPIKRISHNA.V

STUDENT ID No.: ON200879856

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CATIA  
GUD & Shortcuts  
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Sketch based features  
Dress-up features  
Part workbench  
Assembly constraints  
Wire frame  
Surface modeling  
Sheetmetal design  
Standard Drafting Practices

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**CERTIFICATE OF COMPLETION**

STUDENT ID: IID210701002

Awarded to **GOPIKRISHNAN.V**

in **Certificate in Automotive sketching**

at **Institute of Industrial Design, New Bus Stand, Salem**

during **April 2021**

  
MANAGING DIRECTOR

**G.S. Kanagavel**  
CENTRE HEAD

12 - 07 - 2021  
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