



SITAA VOICE
Seshasayee Institute of Technology Alumni
Association

(SITAA) Regn.No. 202/2013

S.I.T. Campus, Ariyamangalam, Tiruchirappalli-620010

Website: www.sitalumni.in

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Issue June 2020



SITAA WISHES A HEALTHY WORLD

PRAYERS

YOU exist everywhere in this universe. YOU decide the Destiny. Please cure every disease and illness. Please give immune to any illness. Please be with us to our aid now, in the midst of the global spread of the invisible virus, that we may experience your love.

Cure those who are sick with the virus, bless them to regain their strength and health through quality medical care.

Make people to keep away from fear, which prevents nations from working together and neighbors from helping one another.

YOU made the humanity to understand that this virus is not having aversion or affinity to any caste, creed, high, low, rich, poor. YOU knew that this is the high time to cure all human who got affected, and give them the strength to bear the loss.

Be with the families of those who are sick or have died from the virus. May their soul be at rest with YOUR eternal peace. As they worry and grieve, defend them from illness and despair. May they know your peace.

“Let Noble thoughts come to us from every side”

Office Bearers

President	P.A.Balasubramanian
Vice President	G.M.Rajendran
Secretary	M.Duraivel
Joint Secretary	P.Jayachandran
Joint Secretary	G.Devarajulu
Ex Officio Member	Dr.K.Vijaykumar, Principal I/C, SIT

From the President’s desk.....

Dear SITAA Members, Faculty, staff, Students and other viewers of SITAA voice,

All of us are aware, due to the Corona pandemic, the entire nation is under lockdown. Nature taught us that it is supreme more than anything in this universe. Our request each one of members to stay safe, adhere to social distancing, using mask and other pre cautionary measures.

SIT and SITAA, both are functioning with limited essential activities viz.teaching subjects, conducting tests and examinations through online / webinar. As of now construction of open air auditorium is suspended temporarily. We appealed our Alumni to contribute their share so that the above Auditorium work can be completed quickly. Some have responded and sent their contribution. Our Target was to finish the construction in all respects so that we can celebrate our next Annual day in 2021 in the new auditorium. So once again I request our Alumni to contribute at the earliest. The details are given at the end of this issue. I am happy to mention that you can avail IT relief under 80-G of the income tax act for the contributions made.

The Academic work is also going on well, with due care taken by Sri.G.M.Rajendran, Hon. Secretary, SES, Dr.K.Vijayakumar, Principal-I/C, Dr.V.G.Ravindhren Vice Principal and their team.

Though no.of events are less in numbers, I feel happy to arrange this SITAAVOICE though delayed. The events from 01st April 2020 till 10th July 2020 are outlined in the following pages. I pray and wish all students of SIT, take the best of the facilities to shape themselves as promising professionals and leaders in their chosen profession.

Wishing you all the best,

P.A.BALASUBRAMANIAN
PRESIDENT SITAA

Dear SITians,

I would like to present this issue of SITAA VOICE highlighting our continuous efforts to impart the education to our students and the enhancement carried out in our premises since the lockdown announced on 24th March 2020.

I express my sincere thanks to Sri.P.A.Balasubramanian, for his valuable guidance, Dr.K.Vijaykumar, Principal I/C, SIT for his team's support in bringing out this issue. To know the various activities of SIT and SITAA, Please read on....

Your SITian

G.M.Rajendran

Hon. Secretary, SIT & Vice President, SITAA & (Editor)

Compound wall – Northern side of SIT construction :



NORTHERN COMPOUND WALL 300 FEET CONSTRUCTION COMPLETED

Paver Block laying to enhance the road conditions



Paver laying - East gate entrance for car parking - 5000 sq. ft area completed



Paver work in front of ICE department – 3000 Sq.ft. completed



Based on request from Collectorate, TN Government, SIT Hostel ground is utilized for vegetable market since 7th April 2020

Trichy Municipal Corporation constructed around 75 shops of 10 feet x 10 feet. TMC arranged Police patrol to have control over the crowd and parking of two wheelers. From Paal Pannai Cross roads to Tiruverumbur our ground is the only facility to buy vegetables, useful service to the residential area



All the class rooms are cleaned, furnitures are painted – Preparedness of classes once the pandemic is closed . SIT is ready to start the classes once DOTE/ TN Govt. announce to start functioning of the institution



Arranged Barricades, sign boards



Toilets, bath rooms, urinals are under construction in the first floor of the hostel for the students staying in first floor

ONLINE CLASSES CONSOLIDATED REPORT

Subject : **Renewable Energy Sources & Energy Conservation**
 Faculty : Mr.A.Sargunan
 Course & Term : Mechanical- V
 Duration : 18-06-2020 to 02-07-2020 (10 Hours)

Sl.No	Date & duration	Time	Subject covered	No. of students participated
1	18.06.2020- 2 hrs	11.00 am- 12.00 pm	UNIT-I -FUNDAMENTALS OF ENERGY - Introduction to Energy-Energy consumption and standard of living	48
		01.00 pm- 02.00 pm	FUNDAMENTALS OF ENERGY - classification of energy resources-consumption trend of primary energy resources-importance of renewable energy sources- energy for sustainable development.	
2	20.06.2020- 2 Hrs	09.30 am- 10.30 am	WIND ENERGY-Introduction-Basic principles of wind energy conversion: Nature of the wind, power in the wind,	49
		10.45 am- 11.45 am	WIND ENERGY-forces on the blades and wind energy conversion	
3	25.06.2020 - 2 Hrs	09.30 am- 10.30 am	WIND ENERGY-wind data and energy estimation-site selection	43
		10.30 am- 11.30 am	WIND ENERGY-classification of wind energy conversion systems-components of conversion systems	
4	29.06.2020 - 2 Hrs	09.30 am- 10.30 am	WIND ENERGY-Advantages and Disadvantages, Types of wind machines	46
		10.30 am- 11.30 am	WIND ENERGY- Working principle of Horizontal axis machine-working principle of Vertical axis machine	
5	02.07.2020- 2 Hrs	10.30 am- 11.30 am	WIND ENERGY- Generating System, Energy storage	45
		11.30 am- 12.30 am	WIND ENERGY- OBJECTIVE TYPES QUESTION - ONLINE TEST-15 QUESTIONS-SCANNED COPY OF ANSWER SHEET RECIEVED.	

Subject : **Automobile Engineering**
 Faculty : Mr.K.Suresh Krishnan
 Course & Term : Mechanical- V
 Duration : 19-06-2020 to 04-07-2020 (7 -1/2 HRS)

Sl. No	Date & duration	Time	Subject covered	No. of students participated
1	19.06.2020 1-1/2 Hrs.	11.00 am- 11.45 am	Unit 1- Automotive engine parts Principal mechanism and parts of an engine—cylinder head, block, crank case, sump, liner,	45
		11.45 am- 12.30 pm	Piston, piston rings, connecting rod, crank shaft, cam shaft, timing gears.	
2	23.06.2020 1-1/2 Hrs.	10.00 am- 10.45 am	Valves and valve operating mechanism (Ia-head, I head and OHC only) Air Cleaner-Intake and Exhaust manifold.	30
		10.45 am- 11.30 pm	Engine lubrication Friction in engines—purpose of lubrication—methods of lubrications— splash— pressure	
3	27.06.2020 1-1/2 Hrs.	10.00 am- 10.45 am	Dry sump lubrication—oil filters—crank case ventilation—Troubles, causes and remedies.	36
		10.45 am- 11.30 pm	Engine cooling Necessity for cooling—effects of inadequate cooling and overheating of engine parts	
4	01.07.2020 1-1/2 Hrs.	10.00 am- 10.45 am	types of cooling—air cooling—liquid cooling—merits and demerits of air and liquid circulation system	36
		10.45 am- 11.30 pm	Pressure sealed cooling—radiator—water pump—thermostat—antifreeze solutions—troubles, causes and remedies.	
5	04.07.2020 1-1/2 Hrs.	10.00 am- 10.45 am	Fuels S.I. engine fuels—Important characteristics—volatility characteristic—vapour lock tendency—crank case Oil dilution	33
		10.45 am- 11.30 pm	Gum formation--detonation—Octane requirement additives. Assignment 20 diagrams given	

Subject : **Strength of Materials**
 Faculty: : Mr.S.Sivaram
 Course & Term : Mechanical- III
 Duration : 18-06-2020 to 03-07-2020 (12 HRS)

Sl.No	Date & duration	Time	Subject covered	No. of students participated
1	18-06-2020 1 Hr	10:15 am - 11:15 am	UNIT-I - SIMPLE STRESSES AND STRAINS Definition - Load, stress and strain - Classification of force systems - tensile, compressive and shear force systems	40
2	19-06-2020 2 Hrs	10:15 am - 11:15 am 03:00 pm - 04:00 pm	Behavior of mild steel in tension up to rupture - Stress - Strain diagram - limit of proportionality - elastic limit - yield stress - breaking stress - Ultimate stress - percentage of elongation and percentage reduction in area	38
3	23-06-2020 1-1/2 Hr	10:00 am - 11:30 am	Hook's law - Definition -Young's modulus - working stress, factor of safety, load factor, shear stress and shear strain - modulus of rigidity. Linear strain - Deformation due to tension and compressive force	33
4	25-06-2020 1-1/2 Hr	10:00 am - 11:30 am	Simple problems in tension, compression and shear force	30
5	27-06-2020 2 Hrs	10:00 am - 12:00 pm	Definition - Lateral strain -Poisson's ratio - volumetric strain - bulk modulus - volumetric strain of rectangular and circular bars - problems connecting linear, lateral and volumetric deformation	35
6	30-06-2020 1 Hr 50 min	10:00 am - 11:50 am	Elastic constants and their relationship - Problems on elastic constants. Definition - Composite bar -Problem in composite bars subjected to tension ad compression	31
7	03-07-2020 2 Hrs	10:00 am - 11:00 am 11:00 am - 12:00 pm	Temperature stresses and strain - Simple problems	31

Subject : **Basics of Mechanical Engineering & Fluid Mechanics**
 Faculty : Mr.T.Jayakumar
 Course & Term : Paper Technology - III
 Duration : 22-06-2020 to 03-07-2020 (9-1/2 Hrs)

Sl.No	Date & duration	Time	Subject covered	No. of students participated
1	22.06.2020 1 Hr	3.00 pm - 4.00 pm	Unit -1 Introduction, Stress and strain -Definition of elasticity, plasticity, ductility, malleability, toughness, hardness, stiffness, compression strength and shear stress, Hooke's law	35
2	24.6.2020 1 Hr	3.00 pm - 4.00 pm	Engineering Materials- Classification of materials, properties of various materials, selection criteria for use in industry, corrosion Pipe fittings- Pipe fittings and joints	36
3	26.6.2020 1 Hr	3.00 pm - 4.00 pm	Valves - Gate valve, Globe valve, Check valve	36
4	27.6.2020 2 Hrs	3.00 pm - 5.00 pm	Pumps - construction and working of Reciprocating pump and its types, Plunger type pump	36
5	30.06.2020 1-1/2 Hrs	3.00 pm - 4.30 pm	Diaphragm pump, Rotary pump - external gear pump, internal gear pump, centrifugal pump	40
6	01.07.2020 1-1/2 Hrs	3.00 pm - 4.30 pm	Corrosion, screw pump. Unit- 2 Introduction of bearing, types of bearings, Bearings	44
7	03.07.2020 1-1/2 Hrs	3.00 pm - 4.30 pm	Journal, ball, roller, taper roller, needle bearings, comparison of journal and ball bearings, linear motion bearings and applications, Lubricant	40

Subject : **Fluid Mechanics & Fluid Power**
 Faculty : Mr.S.Murugan
 Course & Term : Mechanical - III
 Duration : 01-07-2020 to 02-07-2020 (3-1/2 Hrs)

Sl.No	Date & duration	Time	Subject covered	No. of students participated
01	01.07.2020	11.00 am- 12.00 noon	Introduction about Fluid mechanics, types of fluids, classification of fluids,	31
		12.15 pm- 01.15 pm	Properties of fluids, simple problems	31
02	02.07.2020	10.30 am - 12.00 noon	Basic concepts of pressure, Types of pressure, working of Bourdon's tube pressure gauge	30

Subject : **Design of Machine Elements**
 Faculty : Mr. K.Raveenthara
 Course & Term : Mechanical - V
 Duration: : 22-06-2020 to 03-07-2020 (8 Hrs)

Sl.No	Date & duration	Time	Subject covered	No. of students participated
1	22.06.2020 -2 hrs	10.00 am- 11.00 am 11.30 am- 12.30 pm	General considerations in - machine design engineering - materials- factor affecting selecting of material	45
2	24.06.2020 -1-1/2 Hrs	10.00 am- 11.30 am	BIS - designations of ferrous materials - preferred members - factor of safety - allowable stress BIS - designations of ferrous materials - preferred members - factor of safety - allowable stress	41
3	26.06.2020 -1-1/2 Hrs	10.00 am - 11.30 am	Stresses - tension ,compression , shear , bearing pressure intensity ,crushing ,bending and torsion Stresses - tension ,compression , shear , bearing pressure intensity ,crushing ,bending and torsion	40
4	30.06.2020 -1 Hr	10.00 am - 11.00 am	Problems on Stress	45
5	03.07.2020 -2 Hrs	09.30 am- 10.30 am, 11.00 am - 12.00 noon	Problems on Stress	40

SUBJECT : **Machine Drawing**
 FACULTY : Mr.M.Rangasamy
 COURSE & TERM : Mechanical - III
 DURATION : 22-06-2020 to 29-06-2020 (2-1/2 HRS)

Sl.No	Date & duration	Time	Subject covered	No. of students participated
1	22-06-2020 1:30 Hr	10:00 am - 11:30 am	Sleeve and cotter joint	31
2	29-06-2020 1 Hr	10:00 am - 11:00 am	Knuckle joint	30

SIT Conducted online tests, examinations for the students to keep them alive on their studies.

Faculty Development Programmes through Online / Webinar:

All faculty of SIT attended various Faculty development programmes in April, May and June, 2020 through Webinars arranged by AICTE, BSNL, PSG Technology, VIT, Chennai, IIT-Mumbai, Tamilnadu Physical Education and Sports University, Chennai and other reputed Engineering institutions. Few topics covered are as below:

- Examination reforms
- One week online Faculty Development Program on “ARDUINO”
- International Virtual Librarian's Development Programme
- Steel Detailing: “American steel construction and future scope in India”
- “Waste to energy: An emerging field for Engineering professionals”
- Decoding examination during & past Covid 19
- Webinar series on NBA accreditation process for polytechnic colleges
- Effective Conduct of online Classes
- “ICT Tools for Effective Teaching and Learning”
- Exploring Career Opportunities Post Covid 19
- “Life-Skills Education is needed for Adolescents”
- Recent innovations and technologies Electrical, Electronics, Instrumentation, automation, Photovoltaic cells, teaching pedagogy, Networking Technologies, Fiber Optics, Renewable energy, Non Conventional energy, Recent Trends in Fiber optics and Photonic Integrated Circuits with its Applications, Recent Trends in Power Systems, Network Engineering, Power Systems, E-Content Development
- Behavioral science with students, colleagues, communication skills, Effective public speaking, Virtual teachings and learning
- NBA Process and enhancement of quality of education
- Startup of small scale industries, adherence to the rules and regulations by Govt. of India and TN Govt., Digital & professional skills for industry readiness,

All these programmes through webinar, attended by Dr.VG.Ravindhren, Vice Principal, Sri.R.Rajasekaran, HOD-I/C, Civil, Sri.K.Saravanan, HOD-EEE, Sri.S.G.Kadiravan, Lecturer, Mechanical, Mrs.V.Vijayalakshmi, HOD-ECE, Dr.R.Usha Rani, Lecturer, Ms.M.Easwari, Lecturer, Sri.R.Palani Raj, Lecturer, Sri.S.Senthamarai, Lecturer, Sri.K.Annamalai, Lecturer, Sri.T.Muthamil Selvam, Lecturer, Sri.A.Baskar, Librarian, Ms.T.Sririya, Sri.N.Dharmaraj, Sri.A.N.Gnana Jeevan, Ms.I.Glory, Ms.T.Saranya, Ms.K.M.Kanchana, and others.

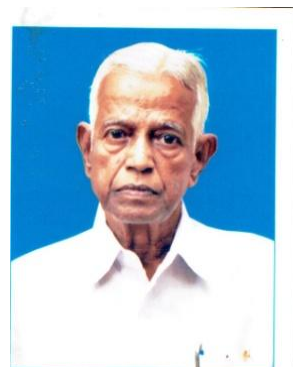
OBITUARY

Sri.S.Suriamoorthy, alumnus of 1958, Civil passed away on 08th July 2020, due to his illness at his residence in Tiruchirapalli.

Sri.S.Suriamoorthy has distinguished himself as the **First Chief Engineer** of Tiruchirappalli City Corporation. He was Chairman, Builders Association of India, Tiruchirappalli Centre.

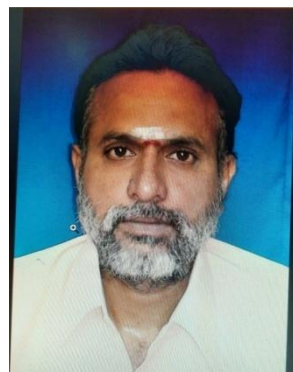
In appreciation and recognition of his attributes, SIT Alumni Association conferred him with **SIT RATHNA**, on the Founder's day on 14th August, 2017.

SIT & SITAA convey heartfelt condolences to the members of his family. May his soul rest in peace.



S.Suriamoorthy

Sri.Sivakumar, alumnus of 1985, Mechanical, passed away on 03rd July 2020, a victim of the accident happened at Neyveli Lignite Corporation Neyveli on 01st July 2020. He was Deputy Chief Engineer, Unit-2, NLC. SIT & SITAA convey heartfelt condolences to the members of his family. May his soul rest in peace.



Sivakumar

GS-ANC Open Air Auditorium- Appeal – As all of you are aware, President, SITAA made an appeal requesting our alumni to contribute their mighty, for the noble cause of construction of open air auditorium with bust size statues of Sri.GS and Sri.ANC in SIT Premises. At present the construction is suspended temporarily.

Cheques favoring “Seshasayee Educational Society”, Tiruchirapalli may please be forwarded to “Hon.Secretary, Seshasayee Institute of Technology, Ariyamangalam, Tiruchirapalli-620010”, with a covering letter furnishing your contact address, PAN details. SES will issue the cash receipt to avail income tax exemption for the contributed amount under 80-G. Bank details are furnished below:

Bank details

Name of the bank – City Union Bank,
Cantonment branch,
MDS Plaza
98, Promenade Road,
Tiruchirapalli

IFSC - CIUB0000153
Account number - 500101010269425
MICR 620054004
Account Name Seshasayee Educational Society (Building Fund)

Upon making your contribution, please send an email to gmr.sit@gmail.com or a letter addressed to Sri.G.M.Rajendran, Hon.Secretary, Seshasayee Institute of Technology, Ariyamangalam, Trichy-620010 with your PAN, Contact address so that cash receipt can be issued.

All are requested to keep in touch with SIT and SITAA to recollect your memories and as gratitude to our Alma Mater. This request is made to enhance the operations of SIT and its growth. We jointly will put all out efforts to ensure the quality outputs with good technical knowledge, specialized skills, communication skills, practical applications, industry requirement to meet the demand in Industry and society.

As of now, SIT and SITAA will be arranging a function with limited members to commemorate our Founder's birthday. We shall keep you informed about Founder's day and AGM of SITAA, if the same will be celebrated in a grand manner, scheduled on 14th August, 2020

SITAA seek your continued cooperation to do the best.

With best wishes and meet you all soon.....
