



## Aalim Muhammed Salegh College of Engineering

AVADI - IAF, CHENNAI-55



### List of Patent Published and Granted

Sl. No.	Academic Year	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Patent Published Date / Granted Date (DD/MM/YYYY)
1	2018-19	201841043110	Published	DR.M.AMANULLAH	A DEVICE FOR ASSISTING A DISABLED PERSON FOR CONVERTING COMMANDS GIVEN BY FINGERS	23/11/2018
2	2018-19	201941005202	Published	DR.M.AMANULLAH AND S.ALAGESAN	SMART SEAT BELT SYSTEM	15/2/2019
3	2019-20	202041003208	Published	DR.M.AMANULLAH	SMART WATER NETWORK OPTIMIZATION TECHNIQUES FOR WATER QUALITY MONITORING AND LEAKAGE MANAGEMENT	31/01/2020
4	2020-21	201941032681	Published	Dr.N.R.SHANKER, Dr. C.MAKENDRAN, Dr. S. SATHISH, Dr. M. AMANULLAH	PETROL ADULTERATION TESTING SYSTEM (PATS)	2/19/2021
5	2020-21	202141016366	Published	DR.M.AMANULLAH	A SMART TECHNIQUE TO ACCESS GHANTAIN TEMPLES TO AVOID USING BARE HANDS DUE TO COVID SITUATION	4/23/2021
6	2020-21	202121020905	Published	Mr.D.ZUNAITHUR RAHMAN	STRENGTH AND DURABILITY PROPERTIES OF CONCRETE USING GROUNDNUT SHELL AS FINE AGGREGATE	6/11/2021
7	2021-22	201741031639	Granted	Dr. N.R.SHANKER AND Mr. E.GANESH	A SYSTEM FOR IDENTIFICATION OF MAGNETISM IN AQUOUS HUMOR FLUID DURING STATIC AND DYNAMIC IN NATURE	1/20/2022
8	2021-22	202241027902	Published	Ms. RAJALAKSHMI B	INNOVATIVE PRECAST CONCRETE PAVEMENTS AND CONSTRUCTION METHODS TO IMPROVE THE STRESS CHARACTERISTIC OF PAVEMENT STRUCTURES	5/27/2022
9	2022-23	202241070018	Published	DR. S. ARIF ABDUL RAHUMAN	ARTIFICIAL INTELLIGENCE BASED ENTERPRISE RESOURCE PLANNING SOFTWARE FOR MARKETING SOLUTIONS	12/16/2022
10	2022-23	202241008333	Published	Ms. S.SUBERIYA BEGUM	DETECTION OF BREAST CANCER DIAGNOSIS USING DEEP LEARNING METHOD	2/25/2022



  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201841043110 A

(19) INDIA

(22) Date of filing of Application :16/11/2018

(43) Publication Date : 23/11/2018

(54) Title of the invention : A DEVICE FOR ASSISTING A DISABLED PERSON FOR CONVERTING COMMANDS GIVEN BY FINGERS


(51) International classification	:A61G 7/00	(71)Name of Applicant : 1)ALLINNOV RESEARCH AND DEVELOPMENT PRIVATE LIMITED Address of Applicant :D. NO.: 29B, Bairappa Colony, Krishnagiri - 635001, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. N. MOHANASUNDARARAJU
(33) Name of priority country	:NA	2)Dr.P.SRINIVASAN
(86) International Application No	:NA	3)Dr. S.PRAVEEN CHAKKRAVARTHY
Filing Date	:NA	4)Dr.G.VIJAYA
(87) International Publication No	: NA	5)J. MANIKANDAN
(61) Patent of Addition to Application Number	:NA	6)B. SHANMUGASUNDARAM
Filing Date	:NA	7)Dr. K.KIRAN KUMAR
(62) Divisional to Application Number	:NA	8)DR.M.AMANULLAH
Filing Date	:NA	9)S.V.MAHESH KUMAR
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		11)B.VINOD
		12)J.SAMPATHKUMAR
		13)Y.M.MAHABOOB JOHN
		14)BHUVANESWARI G
		15)K.SELVAKUMARASAMY

(57) Abstract :

This invention provides a device for assisting a disabled person, for converting commands given by fingers, to an interactive voice, said device comprises: finger sensors placed on tip of fingers of hand; a central processing unit; for converting commands from sensors into an interactive voice; a speaker; wires connecting the sensors to the central processing unit and to speaker; wherein the central processing unit is pre programmed to specify each finger motion to a specific action, announced by the speaker.

No. of Pages : 18 No. of Claims : 6



  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941005202 A

(19) INDIA

(22) Date of filing of Application :09/02/2019

(43) Publication Date : 15/02/2019

(54) Title of the invention : SMART SEAT BELT SYSTEM

(51) International classification :B60R21/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)Name of Inventor :

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**4)BETALA, Rakesh**

**5)M., Amanullah**

**6)C., Gopinath**

**7)S., Sathiyamurthy**

**8)B., Dhiyanesh**

**9)S., Alagesan**

**10)M., Anand**

**11)M., Babu**

**12)P., Naveen Kumar**

**13)C., Poovarasu**

**14)B., Keerthiraja**

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**16)K., Kannan**

(57) Abstract :

A smart seat belt system for a vehicle is disclosed, that comprises a seat belt assembly configured with a seat of the vehicle; a set of sensors configured to sense parameters of the belt assembly, a user associated with the seat and the vehicle, and generate signals based on the sensed parameters; and a processor coupled with a memory, the memory storing instructions executable by the processor to: extract the parameters from the generated signals; and compare the extracted parameters with pre-defined parameter values stored in a database, wherein based on comparison generate, when the extracted parameters are more than the set of predefined values, alert signals and control signals; a control unit configured to control vehicular parameters of the vehicle based on the generated control signals; and a notification unit configured to generate any of a visual alert and an audio alert based on the generated alert signals to alert the user.

No. of Pages : 35 No. of Claims : 10



  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941032681 A

(19) INDIA

(22) Date of filing of Application :13/08/2019

(43) Publication Date : 19/02/2021

(54) Title of the invention : PETROL ADULTERATION TESTING SYSTEM (PATS)

(51) International classification :F02B0075020000,  
B67D0007160000,  
F23N0005000000,  
F23G0007060000,  
C08G0077160000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No :NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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7)Dr. K. MUTHULAKSHMI

8)Er. SHAIK BEPARI FAYAZ BASHA

9)Er. R.DINESH KUMAR

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10)Er.R.RANJITHKUMAR

(57) Abstract :

The adulteration in petrol degrades petrol quality, lowers life cycle of engine and pollutes the environment. The petrol adulterate with kerosene, which alters the composition of petrol however, does not show visible thermal combustion changes. A method is disclosed where a thermal sensing thermocoupler immerse in petrol to be tested. The thermocoupler produces millivolt with respect to petrol temperature.

No. of Pages : 23 No. of Claims : 6



  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141016366 A

(19) INDIA

(22) Date of filing of Application :07/04/2021

(43) Publication Date : 23/04/2021

(54) Title of the invention : A SMART TECHNIQUE TO ACCESS GHANTA IN TEMPLES TO AVOID USING BARE HANDS DUE TO COVID SITUATION

(51) International classification	:A61B0005000000, G06Q0050220000, G16H0050800000, G06K0019040000, G05B0019418000	(71)Name of Applicant : <b>1)Dr. A. NARASIMA VENKATESH</b> Address of Applicant :R V Institute of Management, CA 17, 36th Cross Road, 4th T Block East, Jayanagara 9th Block, Jayanagar, Bengaluru, Karnataka, India 560 041. Karnataka India <b>2)Dr. P KIRAN KUMAR REDDY</b> <b>3)Dr. C. VISWANATHAN</b> <b>4)Dr. M. AMANULLAH</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. A. NARASIMA VENKATESH</b> <b>2)Dr. P KIRAN KUMAR REDDY</b> <b>3)Dr. C. VISWANATHAN</b> <b>4)Dr. M. AMANULLAH</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract The epidemic of coronavirus disease-2019 (COVID-19) establishes a medical emergency of worldwide concern with an exceptionally high danger of spread and affect the entire worldwide. In India, there has been a steady ascent in the infection with 20,080 cases on April 21 even after a countrywide lockdown. And abruptly increasing worldwide, even many of the state governments has started to lift the lockdown ban we have to take some proactive measure to prevent this pandemic from spreading. So here we have proposed a model in which a contactless bell is designed using some sensors in which a user need not to touch a bell which avoids many numbers of users using a common bell in a temple that avoids the pandemic breakage during the tough times.

No. of Pages : 15 No. of Claims : 7



  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121020905 A

(19) INDIA

(22) Date of filing of Application :07/05/2021

(43) Publication Date : 11/06/2021

(54) Title of the invention : STRENGTH AND DURABILITY PROPERTIES OF CONCRETE USING GROUNDNUT SHELL AS FINE AGGREGATE

(51) International classification :C04B0040000000,  
C04B0103300000,  
C04B0018240000,  
C04B0111270000,  
G01N0033380000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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4)Mr. D. ZUNAITHUR RAHMAN

5)Dr. A.ARAVINDAN

6)Mr.S.GUNASEKAR

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10)Dr. PERVAZ AHMAD GANIE

(72)Name of Inventor :

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10)Dr. PERVAZ AHMAD GANIE

(57) Abstract :

ABSTRACT STRENGTH AND DURABILITY PROPERTIES OF CONCRETE USING GROUNDNUT SHELL AS FINE AGGREGATE Concrete plays a prominent role in the construction industry. In the present scenario, there is a shortage of this material. In the current situation, there is a deficiency of this material. So there is a need to discover choices to supplant it in the solid. To beat the present circumstance, many byproducts which are accessible uninhibitedly like paper squander, red mud, rice husk and plastic squanders can be utilized. Among these, groundnut shell is one of the great waste materials accessible from the oil business. It tends to be broadly utilized for the substitution of fine total. This test examination was done to assess the strength and sturdiness properties of concrete, in which fine total was supplanted with groundnut shell with various rates of 0% to 20% at time frame, were performed. Concrete was clustered by weight on receiving a proportion of 1:1.35:2.52 of M30 grade concrete with water concrete proportion of 0.4. Solid shapes of 150—150—150mm, chambers of 150—300mm were utilized. These shapes, chambers and bars were tried for 7, 14 and 28 days and contrasted and regular cement and it is tracked down that 5% of groundnut shell as fine total substitution delivered better outcomes looking at traditional cement.. Durability properties also show better results at 5% comparing to the conventional concrete. .

No. of Pages : 30 No. of Claims : 8



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GEOGRAPHICAL INDICATIONS



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भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 24 Of The Patents Rules)

क्रमांक : 044137599  
SL No :



पेटेंट सं. / Patent No. : 386927  
अवेदन सं. / Application No. : 201741031639  
फाइल करने की तारीख / Date of Filing : 07/09/2017  
पेटेंटी / Patentee : 1. Dr. N.R. SHANKER, Ph.D., 2. E. GANESH, M.E.,  
3. Dr. M. PRIYA, Ph.D.,

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त अवेदन में बयांशकृत A system for identification of magnetism in aqueous humor fluid during static and dynamic in nature नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख 7th day of September 2017 से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A system for identification of magnetism in aqueous humor fluid during static and dynamic in nature as disclosed in the above mentioned application for the term of 20 years from the 7th day of September 2017 in accordance with the provisions of the Patents Act, 1970.



  
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अनुदान की तारीख : 20/01/2022  
Date of Grant :

  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 7th day of September 2019 को और उसके बाद प्रत्येक वर्ष से उसी दिन देना होगा।  
Note - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 7th day of September 2019 and on the same day in every year thereafter.



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241027902 A

(19) INDIA

(22) Date of filing of Application :15/05/2022

(43) Publication Date : 27/05/2022


(54) Title of the invention : INNOVATIVE PRECAST CONCRETE PAVEMENTS AND CONSTRUCTION METHODS TO IMPROVE THE STRESS CHARACTERISTICS OF PAVEMENT STRUCTURES

<p>(51) International classification :B28B0007000000, E01D0021000000, B28B0023000000, E04G0017160000, E01D0019120000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Mr. S.Lokesh</b> Address of Applicant :Assistant Professor, Department of Civil Engineering, P.S.V College of Engineering and Technology, Krishnagiri, Tamilnadu. Krishnagiri -----</p> <p><b>2)Dr.M.Sivaraja</b> <b>3)Dr. Kiran B.M</b> <b>4)Mr. Rahul Kumar Meena</b> <b>5)Prof. S. Anbukumar</b> <b>6)Dr. Sarbjeet Singh</b> <b>7)Dr.R.Gopi</b> <b>8)Kamalika Das</b> <b>9)Kumar Shubham</b> <b>10)B.Rajalakshmi</b> <b>11)Pallavi HJ</b></p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Mr. S.Lokesh</b> Address of Applicant :Assistant Professor, Department of Civil Engineering, P.S.V College of Engineering and Technology, Krishnagiri, Tamilnadu. Krishnagiri -----</p> <p><b>2)Dr.M.Sivaraja</b> Address of Applicant :Professor, Department of Civil Engineering, Nehru Institute of Technology, Kaliapuram, Coimbatore 641105 Kaliapuram -----</p> <p><b>3)Dr. Kiran B.M</b> Address of Applicant :Associate Professor, Department of Civil Engineering, Adichunchanagiri Institute of Technology, Chikkamagaluru -577102 Karnataka, India Chikkamagaluru -----</p> <p><b>4)Mr. Rahul Kumar Meena</b> Address of Applicant :Research Scholar, Department of Civil Engineering, Delhi Technological University, Shahbad Daultpur, Main Bawana Road, Delhi-110042 Shahbad Daultpur -----</p> <p><b>5)Prof. S. Anbukumar</b> Address of Applicant :Professor, Department of Civil Engineering, Delhi Technological University, Shahbad Daultpur, Main Bawana Road, Delhi-110042 Shahbad Daultpur -----</p> <p><b>6)Dr. Sarbjeet Singh</b> Address of Applicant :Scientist, Near Clock Tower, Mangalpara, Jhalawar, Rajasthan (Pin-326001) Jhalawar -----</p> <p><b>7)Dr.R.Gopi</b> Address of Applicant :Associate Professor, Department of Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Hyderabad - 500043 Hyderabad -----</p> <p><b>8)Kamalika Das</b> Address of Applicant :Assistant Professor, Department of Engineering, Arka Jain University, Jamshedpur, Jharkhand - 832108 Jamshedpur -----</p> <p><b>9)Kumar Shubham</b> Address of Applicant :Research Scholar, Department of Civil Engineering, National Institute of Technology Jamshedpur, Jharkhand - 831014 Jamshedpur -----</p> <p><b>10)B.Rajalakshmi</b> Address of Applicant :Assistant Professor, Department of Civil Engineering, Aalim Muhammed salegah college of Engineering-chennai- 600 055 Avadi -----</p> <p><b>11)Pallavi HJ</b> Address of Applicant :Assistant Professor, Department of Civil Engineering, ACS College of Engineering, Bengaluru 560074 Bengaluru -----</p>
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(57) Abstract :  
[08] The invention provides a precast concrete pavement and construction method. The precast pillar base and the pillar top positioning plate are used to provide support for the deck slide rail and road side formwork, and the deck slide beam can provide support for the scraper support beam. and the vibrating support beam; Prestressed oblique braces; When pouring the surface layer poured in place, the vibration of the pouring and the leveling of the surface can be carried out simultaneously; concrete vibration construction is done by plug-in vibrator and flat vibrator; the vertical shape of the tire frame and the tire frame The bottom plate is hingedly connected by a vertical formwork; a ductile transition layer is established between the precast panel and the pavement base; the combination of rigid hangers and specially shaped braces is used to hoist the prefabricated panel; The precast panel can be accurately controlled by the horizontal support of the position control body and the vertical support of the position control body; the closed body of the anchor slot is made of micro-expanded concrete material. The invention can reduce the difficulty of pouring the cast-in-place surfacing layer and the construction of hoisting and placing the precast panel, and improve the mechanical performance of the pavement structure.

No. of Pages : 20 No. of Claims : 5



  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241070018 A

(19) INDIA

(22) Date of filing of Application :05/12/2022

(43) Publication Date : 16/12/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED ENTERPRISE RESOURCE PLANNING SOFTWARE FOR MARKETING SOLUTIONS

(51) International classification :G06Q0030020000, G06Q0010060000, G06Q0020320000, G06F0011360000, G06Q0040020000

(86) International Application No :NA  
 Filing Date :NA

(87) International Publication No :NA  
 Patent of Addition to Application Number :NA  
 Filing Date :NA

(62) Divisional to Application Number :NA  
 Filing Date :NA

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 3)DR. P. PRIYADARSINI  
 4)DR. R. PARTHEEPAN  
 5)DR. M. KRISHNAMURTHY  
 6)N. VINODH  
 7)DR. S. ARIF ABDUL RAHUMAN  
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(72)Name of Inventor :  
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9)ANWAR BASHA .H  
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(57) Abstract :  
 Abstract: The presented invention is an enterprise resource planning software product with integrated hardware components for obtaining manual inputs for analysis, assessment and calculation of parameters pertaining to marketing operations. The inputs from various companies, agents and public general are obtained from input collecting devices. The software is a statistic and artificial intelligence based for taking into account several economic and public sentiment factors and generating output factors which are predictive markers of marketing solutions. The input from the digital devices is obtained into the server where the analysis is done and the output is presented in mobile application or website. Sales and customer input related data are obtained as inputs from both digital input devices and mobile application which is the software's friend. The input data for analysis can also be obtained from the mobile application.

No. of Pages : 7 No. of Claims : 5



*(Handwritten Signature)*  
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/02/2022

(21) Application No.202241008333 A

(43) Publication Date : 25/02/2022

(54) Title of the invention : DETECTION OF BREAST CANCER DIAGNOSIS USING DEEP LEARNING METHOD

(51) International classification :G06T0007000000, G16H0050200000, G06Q0010060000, G16H0015000000, A61B0006000000  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No :NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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4)Monia

5)C A Yogaraja

6)Dr.K.Pradeepa

7)Dr.B.Jega Jothi

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Address of Applicant : NA

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Address of Applicant :Assistant prof / CSE, Shri Mata Vaishno devi university katra, J&K -----

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Address of Applicant :Assistant Professor /CSE, Ramco Institute of Technology, North Venganallur, Rajapalayam, 626117 -----

6)Dr.K.Pradeepa

Address of Applicant :Associate Professor and Head, Department of Computer Science, KPR College of Arts Science and Research, Avinashi road, Arasur, Coimbatore -----

7)Dr.B.Jega Jothi


Address of Applicant :Assistant Professor / EEE, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai-69 -----

(57) Abstract :

This innovation proposal includes a detailed examination of the literature on deep learning applications for the diagnosis of mammography and ultrasound. It also highlights contemporary advances to the computer-aided diagnosis/detection (CAD) systems that apply novel ways for deep learning to recognize breast photos automatically and boost diagnostic accuracy by radiologists. The primary outcomes of the classification process demonstrated that innovative CAD techniques are important and effective breast cancer screening tools that lessen the demand for manual functional extraction.

No. of Pages : 24 No. of Claims : 5



  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941032681 A

(19) INDIA

(22) Date of filing of Application :13/08/2019

(43) Publication Date : 19/02/2021

(54) Title of the invention : PETROL ADULTERATION TESTING SYSTEM (PATS)

(51) International classification :F02B0075020000,  
B67D0007160000,  
F23N0005000000,  
F23G0007060000,  
C08G0077160000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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2)Dr. C.MAKENDRAN

3)Dr. S. SATHISH

4)Dr. M. AMANULLAH

5)Dr. A. THIRUMURUGAN

6)Dr. M. PALANISAMY

7)Dr. K. MUTHULAKSHMI

8)Er. SHAIK BEPARI FAYAZ BASHA

9)Er. R.DINESH KUMAR

10)Er.R.RANJITHKUMAR

(72)Name of Inventor :

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2)Dr. C.MAKENDRAN

3)Dr. S. SATHISH

4)Dr. M. AMANULLAH

5)Dr. A. THIRUMURUGAN

6)Dr. M. PALANISAMY

7)Dr. K. MUTHULAKSHMI

8)Er. SHAIK BEPARI FAYAZ BASHA

9)Er. R.DINESH KUMAR

10)Er.R.RANJITHKUMAR

(57) Abstract :

The adulteration in petrol degrades petrol quality, lowers life cycle of engine and pollutes the environment. The petrol adulterate with kerosene, which alters the composition of petrol however, does not show visible thermal combustion changes. A method is disclosed where a thermal sensing thermocoupler immerse in petrol to be tested. The thermocoupler produces millivolt with respect to petrol temperature.

No. of Pages : 23 No. of Claims : 6



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**Aalim Muhammed Salegh College of Engineering**  
**Department of Information Technology**  
**List of Activities**  
**on INDIAN KNOWLEDGE SYSTEM**



SNO	INDIAN KNOWLEDGE SYSTEM	TOPICS COVERED
1	HERITAGE OF TAMILS	LANGUAGE AND LITERATURE, HERITAGE - ROCK ART PAINTINGS TO MODERN ART – SCULPTURE, FOLK AND MARTIAL ARTS, THINAI CONCEPT
2	TAMILS AND TECHNOLOGY	WEAVING AND CERAMIC TECHNOLOGY, DESIGN AND CONSTRUCTION TECHNOLOGY, MANUFACTURING TECHNOLOGY, AGRICULTURE AND IRRIGATION TECHNOLOGY AND SCIENTIFIC TAMIL & TAMIL COMPUTING.



  
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**அலகு I நெசவு மற்றும் பானைத் தொழில்நுட்பம்: 3**  
சங்க காலத்தில் நெசவுத் தொழில் - பானைத் தொழில்நுட்பம் - கருப்பு சிவப்பு பாண்டங்கள் - பாண்டங்களில் கிறல் குறியீடுகள்.

**அலகு II வடிவமைப்பு மற்றும் கட்டிடத் தொழில்நுட்பம்: 3**  
சங்க காலத்தில் வடிவமைப்பு மற்றும் கட்டுமானங்கள் & சங்க காலத்தில் வீட்டுப் பொருட்களில் வடிவமைப்பு- சங்க காலத்தில் கட்டுமான பொருட்களும் நடுகல்லும் - சிலப்பதிகாரத்தில் மேடை அமைப்பு பற்றிய விவரங்கள் - மாமல்லபுரம் சிற்பங்களும், கோவில்களும் - சோழர் காலத்துப் பெருங்கோயில்கள் மற்றும் பிற வழிபாட்டுத் தலங்கள் - நாயக்கர் காலக் கோயில்கள் - மாதிரி கட்டமைப்புகள் பற்றி அறிதல், மதுரை மீனாட்சி அம்மன் ஆலயம் மற்றும் திருமலை நாயக்கர் மஹால் - செட்டிநாட்டு வீடுகள் - பிரிட்டிஷ் காலத்தில் சென்னையில் இந்தோ-சாரோசெனிக் கட்டிடக் கலை.

**அலகு III உற்பத்தித் தொழில் நுட்பம்: 3**  
கப்பல் கட்டும் கலை - உலோகவியல் - இரும்புத் தொழிற்சாலை - இரும்பை உருக்குதல், எஃகு - வரலாற்றுச் சான்றுகளாக செம்பு மற்றும் தங்க நாணயங்கள் - நாணயங்கள் அச்சடித்தல் - மணி உருவாக்கும் தொழிற்சாலைகள் - கல்மணிகள், கண்ணாடி மணிகள் - சுடுமண் மணிகள் - சங்கு மணிகள் - ஏலும்புத்துண்டுகள் - தொல்லியல் சான்றுகள் - சிலப்பதிகாரத்தில் மணிகளின் வகைகள்.

**அலகு IV வேளாண்மை மற்றும் நீர்ப்பாசனத் தொழில் நுட்பம்: 3**  
அணை, ஏரி, குளங்கள், மதகு - சோழர்காலக் குழுவித் தூம்பின் முக்கியத்துவம் - கால்நடை பராமரிப்பு - கால்நடைகளுக்காக வடிவமைக்கப்பட்ட கிணறுகள் - வேளாண்மை மற்றும் வேளாண்மைச் சார்ந்த செயல்பாடுகள் - கடல்சார் அறிவு - மீன்வளம் - முத்து மற்றும் முத்துக்குளித்தல் - பெருங்கடல் குறித்த பண்டைய அறிவு - அறிவுசார் சமூகம்.

**அலகு V அறிவியல் தமிழ் மற்றும் கணித்தமிழ்: 3**  
அறிவியல் தமிழின் வளர்ச்சி - கணித்தமிழ் வளர்ச்சி - தமிழ் நூல்களை மின்பதிப்பு செய்தல் - தமிழ் மென்பொருட்கள் உருவாக்கம் - தமிழ் இணையக் கல்விக்கழகம் - தமிழ் மின் நூலகம் - இணையத்தில் தமிழ் அகராதிகள் - சொற்குவைத் திட்டம்.

TOTAL : 15 PERIODS

**TEXT-CUM-REFERENCE BOOKS**

1. தமிழக வரலாறு - மக்களும் பண்பாடும் - கே.கே. பிள்ளை (வெளியீடு: தமிழ்நாடு பாடநூல் மற்றும் கல்வியியல் பணிகள் கழகம்).
2. கணினித் தமிழ் - முனைவர் இல. சுந்தரம். (விகடன் பிரசுரம்).



  
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British Period.

**UNIT III MANUFACTURING TECHNOLOGY 3**

Art of Ship Building - Metallurgical studies - Iron industry - Iron smelting, steel -Copper and gold-Coins as source of history - Minting of Coins – Beads making-Industries Stone beads -Glass beads - Terracotta beads -Shell beads/ bone beads - Archeological evidences - Gem stone types described in Silappathikaram.

**UNIT IV AGRICULTURE AND IRRIGATION TECHNOLOGY 3**

Dam, Tank, ponds, Sluice, Significance of Kumizhi Thoompu of Chola Period, Animal Husbandry - Wells designed for cattle use - Agriculture and Agro Processing - Knowledge of Sea - Fisheries – Pearl - Conche diving - Ancient Knowledge of Ocean - Knowledge Specific Society.

**UNIT V SCIENTIFIC TAMIL & TAMIL COMPUTING 3**

Development of Scientific Tamil - Tamil computing – Digitalization of Tamil Books – Development of Tamil Software – Tamil Virtual Academy – Tamil Digital Library – Online Tamil Dictionaries – Sorkuvai Project.

**TOTAL : 15 PERIODS**

**TEXT-CUM-REFERENCE BOOKS**

1. தமிழக வரலாறு – மக்களும் பண்பாடும் – கே.கே. பிள்ளை (வெளியீடு: தமிழ்நாடு பாடநூல் மற்றும் கல்வியியல் பணிகள் கழகம்).
2. கணிணித் தமிழ் – முனைவர் இல. சுந்தரம். (விகடன் பிரசுரம்).
3. கீழடி – வைகை நதிக்கரையில் சங்ககால நகர நாகரிகம் (தொல்லியல் துறை வெளியீடு)
4. பொருளை – ஆற்றங்கரை நாகரிகம். (தொல்லியல் துறை வெளியீடு)
5. Social Life of Tamils (Dr.K.K.Pillay) A joint publication of TNTB & ESC and RMRL – (in print)
6. Social Life of the Tamils - The Classical Period (Dr.S.Singaravelu) (Published by: International Institute of Tamil Studies.
7. Historical Heritage of the Tamils (Dr.S.V.Subatamanian, Dr.K.D. Thirunavukkarasu) (Published by: International Institute of Tamil Studies).
8. The Contributions of the Tamils to Indian Culture (Dr.M.Valarmathi) (Published by: International Institute of Tamil Studies.)
9. Keeladi - 'Sangam City Civilization on the banks of river Vaigai' (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
10. Studies in the History of India with Special Reference to Tamil Nadu (Dr.K.K.Pillay) (Published by: The Author)
11. Porunai Civilization (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
12. Journey of Civilization Indus to Vaigai (R.Balakrishnan) (Published by: RMRL) – Reference Book.



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**அலகு V இந்திய தேசிய இயக்கம் மற்றும் இந்திய பண்பாட்டிற்குத் தமிழர்களின் பங்களிப்பு:**

3

இந்திய விடுதலைப்போரில் தமிழர்களின் பங்கு – இந்தியாவின் பிறப்பகுதிகளில் தமிழ்ப் பண்பாட்டின் தாக்கம் – சுயமரியாதை இயக்கம் – இந்திய மருத்துவத்தில், சித்த மருத்துவத்தின் பங்கு – கல்வெட்டுகள், கையெழுத்துப்படிகள் - தமிழ்ப் புத்தகங்களின் அச்ச வரலாறு.

**TOTAL : 15 PERIODS**

**TEXT-CUM-REFERENCE BOOKS**

1. தமிழக வரலாறு – மக்களும் பண்பாடும் – கே.கே. பிள்ளை (வெளியீடு: தமிழ்நாடு பாடநூல் மற்றும் கல்வியியல் பணிகள் கழகம்).
2. கணினித் தமிழ் – முனைவர் இல. சுந்தரம். (விகடன் பிரசுரம்).
3. ஜீமடி – வைகை நதிக்கரையில் சங்ககால நகர நாகரிகம் (தொல்லியல் துறை வெளியீடு)
4. பொருளை – ஆற்றங்கரை நாகரிகம். (தொல்லியல் துறை வெளியீடு)
5. Social Life of Tamils (Dr.K.K.Pillay) A joint publication of TNTB & ESC and RMRL – (in print)
6. Social Life of the Tamils - The Classical Period (Dr.S.Singaravelu) (Published by: International Institute of Tamil Studies.
7. Historical Heritage of the Tamils (Dr.S.V.Subatamanian, Dr.K.D. Thirunavukkarasu) (Published by: International Institute of Tamil Studies).
8. The Contributions of the Tamils to Indian Culture (Dr.M.Valamathi) (Published by: International Institute of Tamil Studies.)
9. Keeladi - 'Sangam City Civilization on the banks of river Vaigai' (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
10. Studies in the History of India with Special Reference to Tamil Nadu (Dr.K.K.Pillay) (Published by: The Author)
11. Porunai Civilization (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
12. Journey of Civilization Indus to Vaigai (R.Balakrishnan) (Published by: RMRL) – Reference Book.

**GE3171 PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY L T P C  
0 0 4 2**

**COURSE OBJECTIVES:**

- To understand the problem solving approaches.
- To learn the basic programming constructs in Python.
- To practice various computing strategies for Python-based solutions to real world problems.
- To use Python data structures: lists, tuples, dictionaries.



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- International Institute of Tamil Studies.)
9. Keeladi - 'Sangam City Civilization on the banks of river Vaigai' (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
  10. Studies in the History of India with Special Reference to Tamil Nadu (Dr.K.K.Pillay) (Published by: The Author)
  11. Porunal Civilization (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
  12. Journey of Civilization Indus to Vaigai (R.Balakrishnan) (Published by: RMRL) – Reference Book.

GE3152

தமிழர் மரபு

L T P C  
1 0 0 1

**அலகு I மொழி மற்றும் இலக்கியம்: 3**  
இந்திய மொழிக் குடும்பங்கள் - கிராவிட மொழிகள் - தமிழ் ஒரு செம்மொழி - தமிழ் செவ்விலக்கியங்கள் - சங்க இலக்கியத்தின் சமயச் சார்பற்ற தன்மை - சங்க இலக்கியத்தில் பகிர்தல் அறம் - திருக்குறளில் மேலாண்மைக் கருத்துக்கள் - தமிழ்க் காப்பியங்கள், தமிழகத்தில் சமண பௌத்த சமயங்களின் தாக்கம் - பக்தி இலக்கியம், ஆழ்வார்கள் மற்றும் நாயன்மார்கள் - சிற்றிலக்கியங்கள் - தமிழில் நவீன இலக்கியத்தின் வளர்ச்சி - தமிழ் இலக்கிய வளர்ச்சியில் பாரதியார் மற்றும் பாரதிதாசன் ஆகியோரின் பங்களிப்பு.

**அலகு II மரபு - பாறை ஓவியங்கள் முதல் நவீன ஓவியங்கள் வரை - சிற்பக் கலை: 3**  
நடுகல் முதல் நவீன சிற்பங்கள் வரை - ஐம்பொன் சிலைகள்- பழங்குடியினர் மற்றும் அவர்கள் தயாரிக்கும் கைவினைப் பொருட்கள், பொம்மைகள் - தேர் செய்யும் கலை - சுடுமண் சிற்பங்கள் - நாட்டுப்புறத் தெய்வங்கள் - குமரிமுனையில் திருவள்ளூர் சிலை - இசைக் கருவிகள் - மிருதங்கம், பறை, வீணை, யாழ், நாத்தள்வரம் - தமிழர்களின் சமூக பொருளாதார வாழ்வில் கோவில்களின் பங்கு.

**அலகு III நாட்டுப்புறக் கலைகள் மற்றும் வீர விளையாட்டுகள்: 3**  
தெருக்கூத்து, கரகாட்டம், வில்லுப்பாட்டு, கணியான் கூத்து, ஓயிலாட்டம், தோல்பாவைக் கூத்து, சிலம்பாட்டம், வளரி, புலியாட்டம், தமிழர்களின் விளையாட்டுகள்.

**அலகு IV தமிழர்களின் திணைக் கோட்பாடுகள்: 3**  
தமிழகத்தின் தாவரங்களும், விலங்குகளும் - தொல்காப்பியம் மற்றும் சங்க இலக்கியத்தில் அகம் மற்றும் புறக் கோட்பாடுகள் - தமிழர்கள் போற்றிய அறக்கோட்பாடு - சங்ககாலத்தில் தமிழகத்தில் எழுத்தறிவும், கல்வியும் - சங்ககால நகரங்களும் துறை முகங்களும் - சங்ககாலத்தில் ஏற்றுமதி மற்றும்



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GE3152

HERITAGE OF TAMILS

L T P C  
1 0 0 1

- UNIT I LANGUAGE AND LITERATURE 3**  
Language Families in India - Dravidian Languages – Tamil as a Classical Language - Classical Literature in Tamil – Secular Nature of Sangam Literature – Distributive Justice in Sangam Literature - Management Principles in Thirukural - Tamil Epics and Impact of Buddhism & Jainism in Tamil Land - Bakthi Literature Azhwars and Nayanmars - Forms of minor Poetry - Development of Modern literature in Tamil - Contribution of Bharathiyar and Bharathidhasan.
- UNIT II HERITAGE - ROCK ART PAINTINGS TO MODERN ART – SCULPTURE 3**  
Hero stone to modern sculpture - Bronze icons - Tribes and their handicrafts - Art of temple car making - - Massive Terracotta sculptures, Village deities, Thiruvalluvar Statue at Kanyakumari, Making of musical instruments - Mridhangam, Parai, Veenai, Yazh and Nachaswaram - Role of Temples in Social and Economic Life of Tamils.
- UNIT III FOLK AND MARTIAL ARTS 3**  
Therukoothu, Karagattam, Vilu Pattu, Kaniyan Koothu, Oyillattam, Leather puppetry, Silambattam, Valari, Tiger dance - Sports and Games of Tamils.
- UNIT IV THINAI CONCEPT OF TAMILS 3**  
Flora and Fauna of Tamils & Aham and Puram Concept from Tholkappiyam and Sangam Literature - Aram Concept of Tamils - Education and Literacy during Sangam Age - Ancient Cities and Ports of Sangam Age - Export and Import during Sangam Age - Overseas Conquest of Cholas.
- UNIT V CONTRIBUTION OF TAMILS TO INDIAN NATIONAL MOVEMENT AND INDIAN CULTURE 3**  
Contribution of Tamils to Indian Freedom Struggle - The Cultural influence of Tamils over the other parts of India – Self-Respect Movement - Role of Siddha Medicine in Indigenous Systems of Medicine – Inscriptions & Manuscripts – Print History of Tamil Books.

TOTAL : 15 PERIODS

**TEXT-CUM-REFERENCE BOOKS**

1. தமிழக வரலாறு – மக்களும் பண்பாடும் – கே.கே. பிள்ளை (வெளியீடு: தமிழ்நாடு பாடநூல் மற்றும் கல்வியியல் பணிகள் கழகம்).
2. கணினித் தமிழ் – முனைவர் இல. சுந்தரம். (விகடன் பிரசுரம்).
3. கீழடி – வைகை நதிக்கரையில் சங்ககால நகர நாகரிகம் (தொல்லியல் துறை வெளியீடு)
4. பொருதை – ஆற்றங்கரை நாகரிகம். (தொல்லியல் துறை வெளியீடு)
5. Social Life of Tamils (Dr.K.K.Pillay) A joint publication of TNTB & ESC and RMRL – (in print)
6. Social Life of the Tamils - The Classical Period (Dr.S.Singaravelu) (Published by: International Institute of Tamil Studies)



  
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NON- AUTONOMOUS AFFILIATED COLLEGES  
REGULATIONS 2021  
B. TECH. INFORMATION TECHNOLOGY  
CHOICE BASED CREDIT SYSTEM  
CURRICULUM AND SYLLABI FOR SEMESTERS I TO VIII

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS	
				L	T	P			
1.	IP3151	Induction Programme	-	-	-	-	-	0	
<b>THEORY</b>									
2.	HS3152	Professional English - I	HSMC	3	0	0	3	3	
3.	MA3151	Matrices and Calculus	BSC	3	1	0	4	4	
4.	PH3151	Engineering Physics	BSC	3	0	0	3	3	
5.	CY3151	Engineering Chemistry	BSC	3	0	0	3	3	
6.	GE3151	Problem Solving and Python Programming	ESC	3	0	0	3	3	
7.	GE3152	தமிழர் மரபு /Heritage of Tamils	HSMC	1	0	0	1	1	
<b>PRACTICALS</b>									
8.	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2	
9.	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	2	
10.	GE3172	English Laboratory <sup>5</sup>	EEC	0	0	2	2	1	
				<b>TOTAL</b>	<b>16</b>	<b>1</b>	<b>10</b>	<b>27</b>	<b>22</b>

<sup>5</sup> Skill Based Course

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS	
				L	T	P			
<b>THEORY</b>									
1.	HS3252	Professional English - II	HSMC	2	0	0	2	2	
2.	MA3251	Statistics and Numerical Methods	BSC	3	1	0	4	4	
3.	PH3256	Physics for Information Science	BSC	3	0	0	3	3	
4.	BE3251	Basic Electrical and Electronics Engineering	ESC	3	0	0	3	3	
5.	GE3251	Engineering Graphics	ESC	2	0	4	6	4	
6.	CS3251	Programming in C	PCC	3	0	0	3	3	
7.	GE3252	தமிழர் தொழில்நுட்பம் /Tamils and Technology	HSMC	1	0	0	1	1	
8.		NCC Credit Course Level 1 <sup>#</sup>	-	2	0	0	2	2 <sup>#</sup>	
<b>PRACTICALS</b>									
9.	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2	
10.	CS3271	Programming in C Laboratory	PCC	0	0	4	4	2	
11.	GE3272	Communication Laboratory / Foreign Language <sup>5</sup>	EEC	0	0	4	4	2	
				<b>TOTAL</b>	<b>17</b>	<b>1</b>	<b>16</b>	<b>34</b>	<b>26</b>

<sup>#</sup>NCC Credit Course level 1 is offered for NCC students only. The grades earned by the students will



  
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	Object Oriented Programming	2	1	2	2	2	-	-	-	2	2	1	2	3	2	2
	Data Structures Laboratory	2	2	2	1	2	-	-	-	2	2	2	2	2	2	3
	Object Oriented Programming Laboratory	2	2	2	2	2	-	-	-	2	2	2	2	2	2	2
	Data Science Laboratory	2	2	2	2	1	-	-	-	2	2	2	2	2	3	2
	Professional Development <sup>1</sup>															
IV	Theory of Computation	2	2	2	2	1	-	-	-	1	2	2	2	2	2	2
	Artificial Intelligence and Machine Learning	2	1	2	2	1	-	-	-	2	2	2	3	2	2	2
	Database Management Systems	2	2	3	2	1	-	-	-	2	2	2	2	2	2	3
	Algorithms	2.67	1.8	3	1				1.33				1		1	1
	Introduction to Operating Systems	2	2	2	2	1	-	-	-	2	2	2	2	1	2	2
	Environmental Sciences and Sustainability	2.8	1.8	1	1	-	2.2	2.4	-	-	-	-	1.8	-	-	-
	Operating Systems Laboratory	2	2	2	2	2	-	-	-	2	2	2	2	2	2	2
	Database Management Systems Laboratory	2	3	2	2	1	-	-	-	2	1	3	2	2	2	2
III	V Computer Networks	-	1	-	-	1	-	-	-	-	1	-	-	-	1	1
	Full Stack Web Development	3	3	3	2	3	1	1	1	1	1	1	1	2	2	1
	Cryptography and Cyber Security	3	2.6	2.6	2.6	2.8	-	-	-	2	-	-	1.2	2.8	2.8	3
	Distributed Computing	1.8	2.4	1.8	2.4	2	-	-	-	2.6	2.2	2.2	1.6	2	1.8	1.6
	Full Stack Web Development Laboratory	3	3	3	2	3	1	1	1	1	1	1	1	2	2	1
VI	Object Oriented Software Engineering	2	2	1	2	2	-	-	-	1	1	2	2	2	2	1
	Embedded Systems and IoT	2.6	2	3	2.4	1.5	-	-	-	1	2.2	2.2	2.4	2.2	1.6	2.6
IV	VII Human Values and Ethics															
	Summer internship															
VIII	Project Work Internship															

1 - low, 2 - medium, 3 - high, '-' - no correlation



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Mapping of Course Outcome and Programme Outcome																			
Year	Sem	Course name	PO												PSO				
			1	2	3	4	5	6	7	8	9	10	11	12	1	2	3		
I		Induction Programme																	
		Professional English - I	1.6	2.2	1.8	2.2	1.5	3	3	3	1.6	3	3	3	-	-	-		
		Matrices and Calculus	3	3	1	1	0	0	0	0	2	0	2	3	-	-	-		
		Engineering Physics	3	3	1.6	1.2	1.8	1	-	-	-	-	-	1	-	-	-		
		Engineering Chemistry	2.8	1.3	1.6	1	-	1.5	1.8	-	-	-	-	1.5	-	-	-		
		Problem Solving and Python Programming	2	3	3	3	2	-	-	-	-	-	-	2	2	3	3		
		தமிழர் மரபு /Heritage of Tamils																	
		Problem Solving and Python Programming Laboratory	2	3	3	3	2	-	-	-	-	-	-	2	2	3	3		
		Physics and Chemistry Laboratory	3	2.4	2.6	1	1												
			2.6	1.3	1.6	1	1	1.4	1.8	-	-	-	-	1.3	-	-	-		
		English Laboratory <sup>5</sup>	3	3	3	3	1	3	3	3	3	3	3	3	-	-	-		
		II		Professional English - II	3	3	3	3	2.75	3	3	3	2.2	3	3	3	-	-	-
		Statistics and Numerical Methods		3	3	1	1	1	0	0	0	2	0	2	3	-	-	-	
		Physics for Information Science		3	1.3	2	1.3	2.3	1	1.3	-	-	-	-	2	-	-	-	
Basic Electrical and Electronics Engineering	2	1.8		1	-	-	-	-	1	-	-	-	2	-	-	1			
Engineering Graphics	3	1		2	-	2	-	-	-	-	3	-	2	2	2	-			
Programming in C	2	2		2	1	2	1	1	1	2	-	3	2	2	2	-			
தமிழரும் தொழில்நுட்பமும் /Tamils and Technology																			
Engineering Practices Laboratory	3	2		-	-	1	1	1	-	-	-	-	2	2	1	1			
Programming in C Laboratory	2	2		3	2	1	2	-	-	2	1	2	2	2	2				
Communication Laboratory / Foreign Language <sup>5</sup>	2.4	2.8		3	3	1.8	3	3	3	3	3	3	3	-	-	-			
II	iii	Discrete Mathematics		1	3	2	1	-	-	-	-	-	1	-	-	-	-		
Digital Principles and Computer Organization		3		3	3	3	1.8	1.6	1	1	1	1	1.6	2.6	1.4	2.6	1.6		
Foundations of Data		2		2	1	2	2	1	1	-	1	1	1	2	2	2	2		



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- 8 **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9 **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10 **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11 **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments
- 12 **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### III. PROGRAM SPECIFIC OUTCOMES (PSOs)

To ensure graduates

- Have proficiency in programming skills to design, develop and apply appropriate techniques, to solve complex engineering problems.
- Have knowledge to build, automate and manage business solutions using cutting edge technologies.
- Have excitement towards research in applied computer technologies.



  
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**B.TECH. INFORMATION TECHNOLOGY**

**I. PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

Graduates will be able to

- Demonstrate technical competence with analytical and critical thinking to understand and meet the diversified requirements of industry, academia and research.
- Exhibit technical leadership, team skills and entrepreneurship skills to provide business solutions to real world problems.
- Work in multi-disciplinary industries with social and environmental responsibility, work ethics and adaptability to address complex engineering and social problems
- Pursue lifelong learning, use cutting edge technologies and involve in applied research to design optimal solutions.

**II. PROGRAM OUTCOMES (POs)**

- 1 **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2 **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3 **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4 **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5 **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6 **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7 **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need

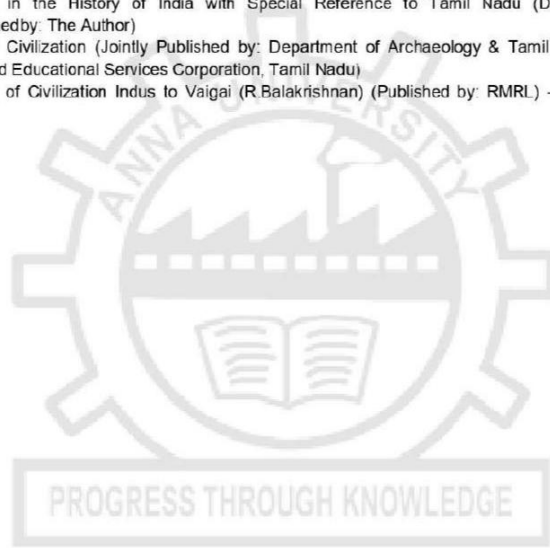


  
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வெளியீடு)

4. பொருரை – ஆற்றங்கரை நாகரிகம். (தொல்லியல் துறை வெளியீடு)
5. Social Life of Tamils (Dr.K.K.Pillay) A joint publication of TNTB & ESC and RMRL – (in print)
6. Social Life of the Tamils - The Classical Period (Dr.S.Singaravelu) (Published by: International Institute of Tamil Studies.)
7. Historical Heritage of the Tamils (Dr.S.V.Subatamanian, Dr.K.D. Thirunavukkarasu) (Published by: International Institute of Tamil Studies.)
8. The Contributions of the Tamils to Indian Culture (Dr.M.Valarmathi) (Published by: International Institute of Tamil Studies.)
9. Keeladi - 'Sangam City Civilization on the banks of river Vaigai' (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
10. Studies in the History of India with Special Reference to Tamil Nadu (Dr.K.K.Pillay) (Published by: The Author)
11. Porunai Civilization (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
- Journey of Civilization Indus to Vaigai (R.Balakrishnan) (Published by: RMRL) – Reference Book.



  
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**Aalim Muhammed Salegh College of Engineering**  
**Department of Information Technology**  
**List of Activities on**  
**ENTREPRENEURSHIP**



<b>SNO</b>	<b>ENTREPRENEURSHIP ACTIVITIES</b>	<b>DATE</b>
1	CARRIER GUIDANCE	03.07.2021
2	IT INDUSTRY EXPECTATION	05.01.2022
3	CARRIER GUIDANCE PROGRAM FROM CADD CENTER	28.09.2022
4	CAREER GUIDANCE-INDUSTRY READINESS PROGRAMME	15.11.2022
5	GUEST LECTURE ON ENTREPRENEURSHIP	17.11.2022
6	AN OVERVIEW OF MEP SERVICE IN BUILDING INDUSTRY	20.02.2023
7	HANDS ON TRAINING ON WINDING OF TRANSFORMER AND THREE PHASE INDUCTION MOTOR	23.02.2023



  
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# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

AVADI – IAF, Chennai

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

NAAC Accredited Institution



## AMSCE – IIC – Report of the Activity

1. Academic Year : 2021 – 2022
2. Quarter : First
3. Program Driven by : IIC
4. IIC / MIC / Celebration / Self Driven Type: IIC
5. Program Theme : Startup
6. Program Type : Motivation Speech
7. Program Name : Career Guidance
8. Promotion in Social Media : Twitter / Facebook / Instagram  
Facebook URL of the activity :  
[https://mail.google.com/mail/u/0?ui=2&ik=294fe7cca1&attid=0.1&permmmsgid=msg-f:1724074875087950900&th=17ed24f6dfcb1434&view=att&disp=safe&realattid=f\\_kzc5q8yk0](https://mail.google.com/mail/u/0?ui=2&ik=294fe7cca1&attid=0.1&permmmsgid=msg-f:1724074875087950900&th=17ed24f6dfcb1434&view=att&disp=safe&realattid=f_kzc5q8yk0)
9. Start and End Date : 3/7/2021
10. Mode of Session Delivery : Online
11. Duration of the Activity (in mins)&Time: 90min&11.00am to 12.30pm
12. No of Student Participants : 62
13. No of Faculty Participants : 23
14. No of External Participants : 36
15. Expenditure Amount (in Rs.) : NIL
16. Objectives of the Activity (min 100 words) :

Career guidance plays a very important role in the lives of all individuals, as it helps in setting future goals and chooses careers. Career guidance is much needed service to those who did not plan for their future at an early stage; more should be done to assist the younger generations in personal career



development. When high school students have a clear understanding of the best career choices for them, end result is better planning, more college enrollments, and a more productive society for the future. The process of career guidance for students involves helping them to achieve their identified career options or acquiring their professional goals. The role of a career guidance expert ranges from acting as a guide to leading the entire course of action.

**17. Benefits in terms of Learning / Skill / Knowledge obtained (min 150 words) :**

career counselling would help the students to understand your core interest areas, aptitudes, and personalities; would empower you to distinguish between your strengths and weaknesses, and most importantly would allow you to explore multi career options before you choose the right career path Career is a much larger and significant part of our lives today and any decision in terms of career planning now has to be taken with the utmost attention. With numerous courses, certifications, colleges, job opportunities available, choosing the right career path could become intimidating for students. An adequate choice of career will not only offer an effective job opportunity but allows a student to embrace a satisfactory and respectful lifestyle. Also, the desired career path engages an individual making them more informed, confident, and dedicated. Lifestyle and personality are the reflection of one's values and mostly, the professional life they lead. Students understand the importance of career guidance to make an informed decision regarding their career progressions.

**18. Video URL of the Activity** : nil

**19. Activity Photograph 1 and 2** : Attached in separate sheet

**20. Remarks** : nil

**Date:** 5/7/2021

**Place:** IIC Cell, AMSCE, Chennai

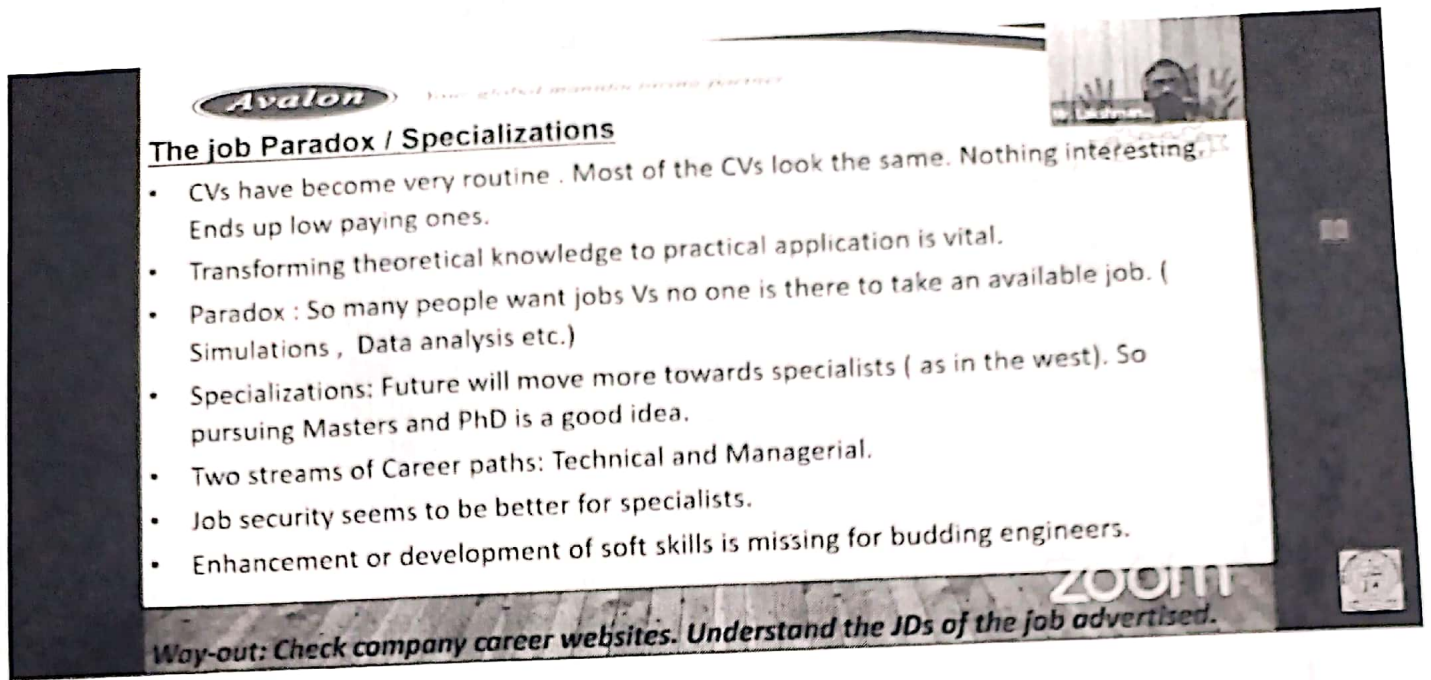
*S. S. S.*  
5/7/2021  
**IIC Coordinator ECE**

*[Signature]*  
**Signature and Seal**  
**Convener**  
(D. ZINATHUR RATHMAN)  
AP / UG

*[Signature]*  
**Signature and Seal**  
**Head of the Institution**



## Activity Photograph 1:



**Avalon** your global marketing research partner


### The job Paradox / Specializations

- CVs have become very routine . Most of the CVs look the same. Nothing interesting, Ends up low paying ones.
- Transforming theoretical knowledge to practical application is vital.
- Paradox : So many people want jobs Vs no one is there to take an available job. ( Simulations , Data analysis etc.)
- Specializations: Future will move more towards specialists ( as in the west). So pursuing Masters and PhD is a good idea.
- Two streams of Career paths: Technical and Managerial.
- Job security seems to be better for specialists.
- Enhancement or development of soft skills is missing for budding engineers.

**Zoom**

*Way-out: Check company career websites. Understand the JDs of the job advertised.*

## Activity Photograph 2:



Mr. Ravi Kumar

Mr. Senthil Kumar

**Zoom**





# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

AVADI – IAF, Chennai

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## AMSCE – IIC – Report of the Activity

1. Academic Year : 2021 – 2022
2. Quarter : Third
3. Program Driven by : Self Driven
4. IIC / MIC / Celebration / Self Driven Type: Self Driven
5. Program Theme : Design and Critical Thinking
6. Program Type : Motivation Speech
7. Program Name : **IT INDUSTRY EXPECTATIONS**
8. Promotion in Social Media : Twitter / Facebook / Instagram  
Facebook URL of the activity :  
[https://mail.google.com/mail/u/0?ui=2&ik=294fe7cca1&attid=0.2&permmsgid=msg-f:1724074875087950900&th=17ed24f6dfcb1434&view=att&disp=safe&realattid=f\\_kzc5q8zc1](https://mail.google.com/mail/u/0?ui=2&ik=294fe7cca1&attid=0.2&permmsgid=msg-f:1724074875087950900&th=17ed24f6dfcb1434&view=att&disp=safe&realattid=f_kzc5q8zc1)
9. Start and End Date : 5/01/2022
10. Mode of Session Delivery : Online
11. Duration of the Activity (in mins)&Time: 90 MIN & 10.11am to 11.30am
12. No of Student Participants : 55
13. No of Faculty Participants : 15
14. No of External Participants : 10
15. Expenditure Amount (in Rs.) : nil
16. Objectives of the Activity (min 100 words) :

Industry is operating in an environment characterized by high performance work culture, intense competition, emphasis on quality, value addition, diversification of products and services, and automation as a result of globalization. Industry requires job ready graduates. It has been found



that (a) the employability of technical graduates is low, (b) the requirements of skill set vary from sector to sector. (c) technical knowledge and skills are considered to be important but soft skills (communication skills, self discipline, team work, willingness to learn, flexibility, creativity etc.) are considered to be more important for employability, (d) technical graduates lack higher order cognitive skills such as ability to analyze, logical reasoning, ability to evaluate and create, and ability to solve problems, (e) knowledge of computers and mathematics are essential for an engineer to succeed, and (f) teaching-learning processes must focus on higher order thinking skills, problem solving and creativity and evaluation processes must change accordingly.

**17. Benefits in terms of Learning / Skill / Knowledge obtained (min 150 words) :**

The aim of this seminar to bring the industry-academia in a common platform to discuss various technical and professional skills that industry expects from a graduates. This also includes the following:

- \* The thrust area for industry-academia collaboration
- \* Proposal for industry-academia incubation center
- \* Task specific training program
- \* Development of entrepreneurship in Engineering- graduates. Students learnt the importance of fundamental knowledge of terminology, concepts, principles etc. in their own disciplines . The importance of current developments in their disciplines and technology. Improve the practical skills And able to read engineering drawings. Students got an idea about the analytical ability, ability to work in teams, willingness to learn, communication skills, managerial skills and creativity .They understand the effects due to the lack of positive attitude and the importance of being more materialistic. To improve the commitment and stability.

**18. Video URL of the Activity :nil**

**19. Activity Photograph 1 and 2 : Attached in separate sheet**

**20. Remarks :nil**

**Date:** 6/1/2022

**Place:** IIC Cell, AMSCE, Chennai

**IIC Coordinator ECE**

**Signature and Seal**

**Convener**

(D. JAGANNATH RAO)  
AP / UOI

**Signature and Seal**

**Head of the Institution**



# Activity Photograph 1:

IT INDUSTRY EXPECTATIONS – 05.01.2022 – SCREEN SHOTS

**Sharpen your Interview skills**

**INTELLENSE ACADEMY**

PSG College of Technology

Mohammed Rizwan  
M.C.A, M.E

amazon

2022-01-06 10:18:45

# Activity Photograph 2:

**Approach a coding problem**

Inputs → Process → Output

Deposit money into a bank account

2022-01-06 10:43:47





# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

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## AMSCE – IIC – Report of the Activity

1. Academic Year : 2022 – 2023
2. Quarter : Second , Third ,Fourth
3. Program Driven by : Self Driven
4. IIC / MIC / Celebration / Self Driven Type: "
5. Program Theme : -
6. Program Type : Seminar
7. Program Name : Career Guidance Program from CADD center
8. Start and End Date : 28.09.2022
09. Mode of Session Delivery : Offline
10. Duration of the Activity (in mins) : 120mins
11. No of Student Participants : 60
12. No of Faculty Participants : 6
13. No of External Participants : NIL
14. Expenditure Amount (in Rs.) : Rs.2000/-
15. Objectives of the Activity : To inculcate a learning culture in young

professionals by setting up a benchmark for training according to the changing market that will help them in adding value to their career.

### 16. Benefits in terms of Learning / Skill / Knowledge obtained :

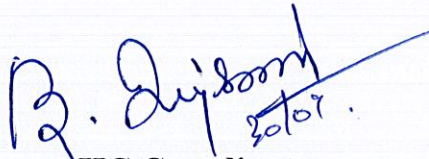
- Enhances the productivity of the designer
- Improves the quality of the design
- Drafting documentation of the designing
- Saving of design records and drawings


17. Activity Photograph : Attached in separate sheet

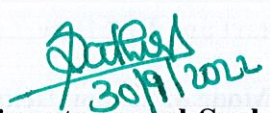
18. Remarks :The participants were enlightened by a lot of information such as paying attention to emerging programming languages and making decisions towards potential growth and opportunities of specific career paths. Most of the participants expressed their views that it was excellent on providing the latest advancement in the field of Software industry and it offered solutions for work related difficulties.

Date: 30.09.22

Place: IIC Cell, AMSCE, Chennai

  
IIC Coordinator  
(B. RATALAKSHMI)

  
Signature and Seal  
Convener

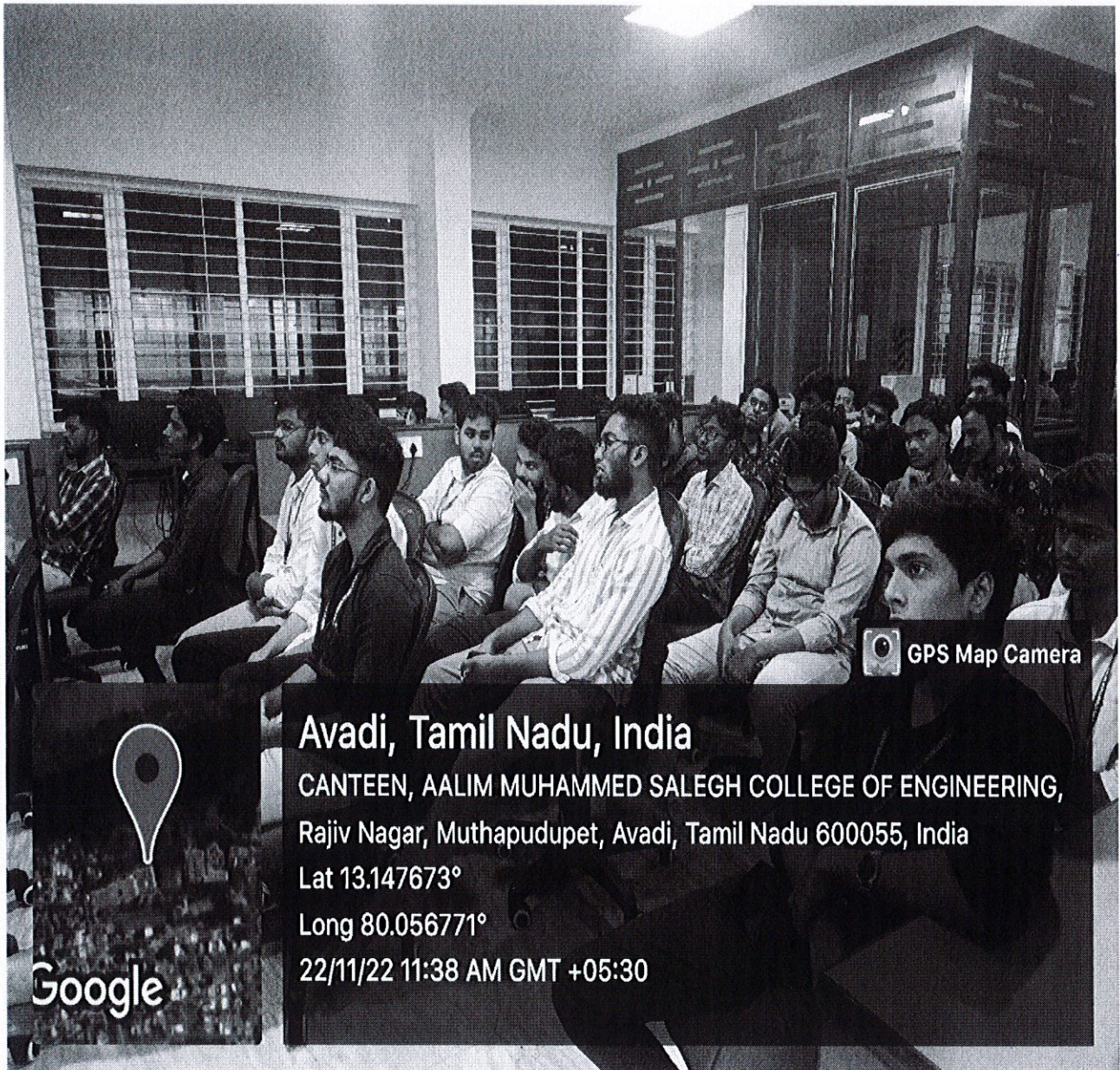
  
Signature and Seal  
Head of the Institution

Dr. D. ZUNAITHUR RAHMAN, M.E., Ph.D.,  
Assistant Professor,  
Department of Civil Engineering,  
Asim Muhammed Salegh College of Engineering,  
Chennai - 600 065.

PRINCIPAL  
ASIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING



**Activity Photograph 1:**







# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING



AVADI – IAF, Chennai

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**NAAC Accredited Institution**

## AMSCE – IIC – Report of the Activity

1. **Academic Year** : 2022 – 2023
2. **Quarter** : First
3. **Program Driven by** : IIC
4. **IIC / MIC / Celebration / Self Driven Type:** IIC
5. **Program Theme** : -
6. **Program Type** : Lecture, Group discussion
7. **Program Name** : Career Guidance - Industry Readiness Programme
8. **Promotion in Social Media** : [Twitter](#) / [Facebook](#) / [Instagram](#)  
Youtube URL of the activity : -  
Instagram URL of the activity : -
9. **Start and End Date** : 15.11.2022
10. **Mode of Session Delivery** : Offline
11. **Duration of the Activity (in mins)** : 2 hours
12. **No. of Student Participants** : 275
13. **No. of Faculty Participants** : 10
14. **No. of External Participants** : 01
15. **Expenditure Amount (in Rs.)** : -
16. **Objectives of the Activity:**

**Dr. R. PartheebanRudrapathi**, the CEO of Knowledge Xchange, Entrepreneur and Industry Solutions Architect, delivered a lecture on 'Career Guidance and Development'. The programme aims to teach the students to use various online platforms to display their projects and skills. The students were guided about various opportunities provided by Knowledge Xchange. Soft skills and technical skills of the students were enhanced in order to prepare them for interviews. The students were updated about the trending career pathways and technologies. The resource person briefed about the courses



offered by 'Knowledge Xchange' and interacted with the students. The students were encouraged to work on their area of interest.

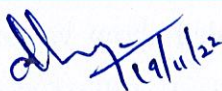
**17. Benefits in terms of Learning / Skill / Knowledge obtained:**

The students got insights on various aspects of technical knowledge and emerging technologies. The students were updated about the trending career pathways and technologies like Robotic Process Automation (RPA), Machine Learning, Deep Learning, AI, Edge Computing, VR and AR, IOT, Blockchain Technology, Cloud Computing, Cyber Security, etc. The students came up with brilliant questions about the future developments in Engineering field. Most of the students came forward to enroll their names for the courses offered by 'Knowledge Xchange' in order to equip themselves with necessary knowledge and skills.


18. Video URL of the Activity :  
19. Activity Photograph 1 and 2 : Attached in separate sheet  
20. Remarks :

Date: 17.11.2022

Place: IIC Cell, AMSCE, Chennai

  
IIC Coordinator  
Abhinaya C.

  
Signature and Seal  
Dr. D. ZUNAI, M.E., Ph.D.,  
Assistant Professor,  
Department of Civil Engineering,  
Aalim Muhammed Salegh College of Engineering,  
Chennai - 600 055.

  
Signature and Seal  
Head of the Institution  
PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING



**Activity Photograph 1:**



**Dr. R. Partheeban Rudrapathi, the CEO of Knowledge Xchange, Entrepreneur and Industry Solutions Architect, delivering a lecture on ‘Career Guidance and Development’.**

**Activity Photograph 2:**



**The Principal of Aalim Muhammed Salegh College of Engineering,  
Prof. Dr. S. Sathish, presenting the memento to the resource person  
Dr. R. Partheeban Rudrapathi**





**AALIM MUHAMMED SALEGH COLLEGE OF  
ENGINEERING**

AVADI – IAF, Chennai



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**AMSCE – IIC – Report of the Activity**

<b>1. Academic Year</b>	:	2022 – 2023
<b>2. Quarter</b>	:	First
<b>3. Program Driven by</b>	:	IIC
<b>4. IIC / MIC / Celebration / Self Driven Type</b>	:	IIC
<b>5. Program Theme</b>	:	-
<b>6. Program Type</b>	:	Lecture, student interaction
<b>7. Program Name</b>	:	Guest lecture on 'Entrepreneurship'
<b>8. Promotion in Social Media</b>	:	Twitter / Facebook / Instagram
Youtube URL of the activity	:	-
Instagram URL of the activity	:	-
<b>9. Start and End Date</b>	:	17.11.2022
<b>10. Mode of Session Delivery</b>	:	Offline
<b>11. Duration of the Activity (in mins)</b>	:	1 hour and 15 minutes
<b>12. No. of Student Participants</b>	:	275
<b>13. No. of Faculty Participants</b>	:	14
<b>14. No. of External Participants</b>	:	1
<b>15. Expenditure Amount (in Rs.)</b>	:	-

**16. Objectives of the Activity:**

The programme aims to instill business ideas and goals in the mind of the young individuals and in turn allowing them to explore their talents. The guest speaker gave a detailed idea about how to set goals and make progress. He explained about developing a product and finding the best way to launch it. Regardless of the type of business a person intends to start, an online presence allows one to reach more people. The students are given insights about online platforms to promote a product which may include elements such as a website, an email contact address and social media activity.



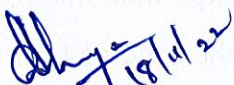
**17. Benefits in terms of Learning / Skill / Knowledge obtained:**

The students interacted with the resource person and clarified their doubts regarding the ways to raise revenue for the business. The students understood how important it is to have contacts which can help them hire right people for additional support. Delegating responsibilities is the major work that helps one to run any business successfully. The students interacted with each other by asking and answering questions regarding responsibilities, leadership qualities and delegating work to others.

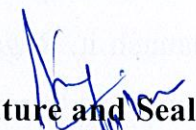
- 18. Video URL of the Activity** :  
**19. Activity Photograph 1 and 2** : Attached in separate sheet  
**20. Remarks** :

**Date:** 17.11.2022

**Place:** IIC Cell, AMSCE, Chennai

  
IIC Coordinator

Abhinaya C.

  
Signature and Seal  
Convener

**Dr. D. ZUNAITHUR RAHMAN, M.E., Ph.D.,**  
Assistant Professor,  
Department of Civil Engineering,  
Aalim Muhammed Salegh College of Engineering,  
Chennai - 600 055.

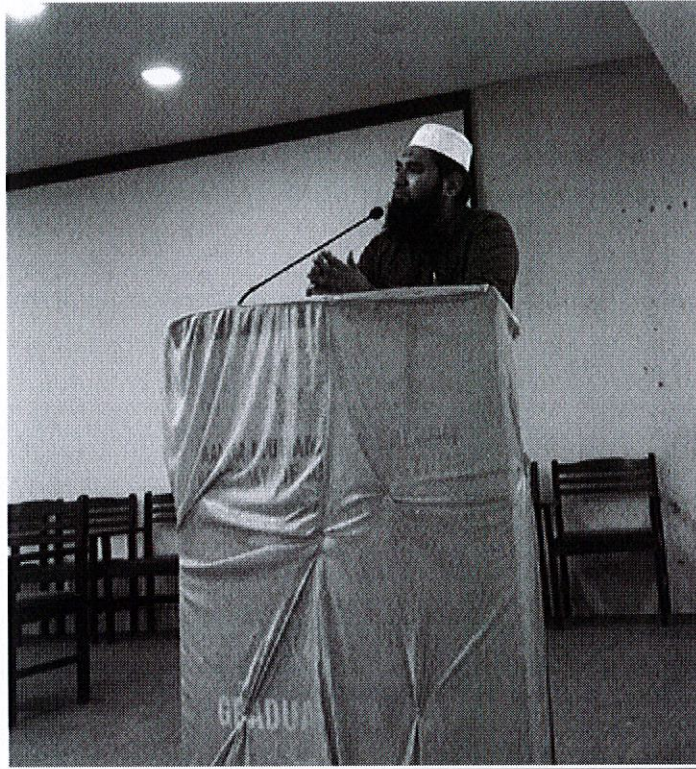
  
Signature and Seal

Head of the Institution

**PRINCIPAL**  
**AALIM MUHAMMED SALEGH**  
**COLLEGE OF ENGINEERING**

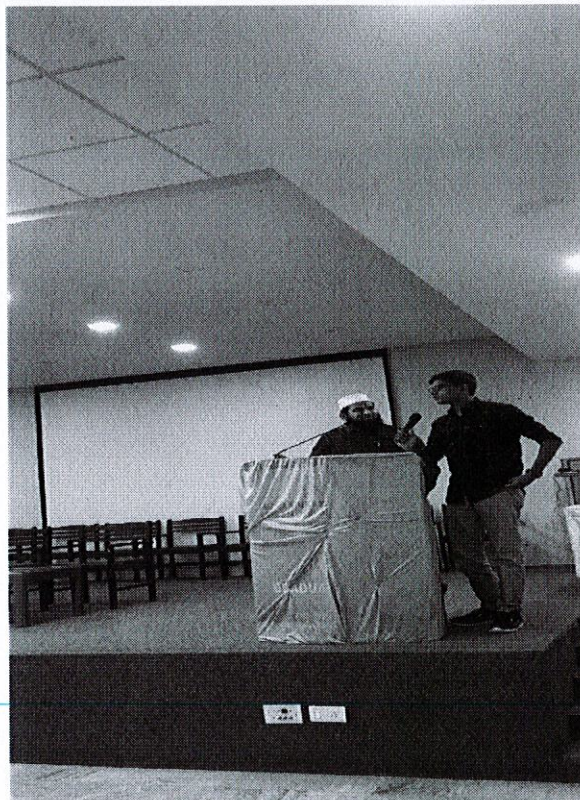


**Activity Photograph 1:**



**Er. H. Mohammed Aadil, Web Developer, delivering a lecture on 'Entrepreneurship'**

**Activity Photograph 2:**



**Er. H. Mohammed Aadil interacting with Mr. Fahad, I year, Dept. of Computer Science and Engineering**





# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

AVADI – IAF, Chennai

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## AMSCE – IIC – Report of the Activity

1. Academic Year : 2022 – 2023
2. Quarter : Fourth *SECOND*
3. Program Driven by : Self Driven
4. IIC / MIC / Celebration / Self Driven Type: -
5. Program Theme :
6. Program Type : Workshop
7. Program Name : An Overview of MEP service in Building Industry
8. Promotion in Social Media : Facebook

[:https://www.facebook.com/photo/?fbid=592455462901449&set=a.57338453814185](https://www.facebook.com/photo/?fbid=592455462901449&set=a.57338453814185)

9. Start and End Date : 20.02.2023
10. Mode of Session Delivery : Offline
11. Duration of the Activity (in mins) : 120mins
12. No of Student Participants : 80
13. No of Faculty Participants : 15
14. No of External Participants : NIL
15. Expenditure Amount (in Rs.) : Rs.3000/-
16. Objectives of the Activity (min 100 words) :The main objective of MEP is to Createproblem-solving

skills. A strong imagination is necessary for the students to think of different ways of completing their projects. Creativity is valued in engineering because it makes projects more innovative and efficient.

17. Benefits in terms of Learning / Skill / Knowledge obtained :The ability to communicate effectively with both staff and clients is very important for any successful engineering job search. After learning this skills, MEP engineers are able to communicate with everyone involved in their projects and demonstrate a high level of writing



18. Activity Photograph 1 and 2

: Attached in separate sheet

19. Remarks

:Students gained good knowledge about HVAC, Plumbing

and Electrical circuits, the trainer taught the real life scenarios of work life. After this course, they can able to apply their knowledge in real life to achieve their outcomes of career.

Date: 22.02.23

Place: IIC Cell, AMSCE, Chennai

*B. Jayaram*  
IIC Coordinator  
(B. KASALAKSAMI)

*[Signature]*  
Signature and Seal  
Convener  
Dr. D. ZUNAITHUR RAHMAN, M.E., Ph.D.,  
Assistant Professor,  
Department of Civil Engineering,  
Aalim Muhammed Salegh College of Engineering,  
Chennai - 600 055.

*[Signature]*  
Signature and Seal  
Head of the Institution  
22.02.2023

Activity Photograph 1:

PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING





**Activity Photograph 2:**







# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

AVADI – IAF, Chennai

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## AMSCE – IIC – Report of the Activity

1. Academic Year : 2022 – 2023
2. Quarter : Second
3. Program Driven by : Self Driven **IIC**
4. IIC / MIC / Celebration / Self Driven Type: Self Driven **IIC**
5. Program Theme : R&D and Innovation
  
6. Program Type : Workshop
7. Program Name : Hands on Training on Winding of Transformer and Three phase Induction Motor
8. Promotion in Social Media : Facebook & Linked-in  
Twitter URL of the activity : Nil  
Facebook URL of the activity : [https://www.facebook.com/photo/?fbid=5126142534381&set=pcb.59613714919994\\_cft\\_\[0\]=AZXdaG9B28TNGVlzlulB-ZDGrIZiBiO-TmNGDP-v\\_9pGFQPwaNyJoVTxfiEkil-zB46qqwq-b4UBQMOKzzieN-r1aWY3\\_fvjPc98-YX75anfzjHQYEI29QxyvHEJt7q4dQwovS5yCb\\_B54QzEonc3sZqAEryLnr](https://www.facebook.com/photo/?fbid=5126142534381&set=pcb.59613714919994_cft_[0]=AZXdaG9B28TNGVlzlulB-ZDGrIZiBiO-TmNGDP-v_9pGFQPwaNyJoVTxfiEkil-zB46qqwq-b4UBQMOKzzieN-r1aWY3_fvjPc98-YX75anfzjHQYEI29QxyvHEJt7q4dQwovS5yCb_B54QzEonc3sZqAEryLnr)
  
- Instagram URL of the activity : Nil
9. Start and End Date : 23<sup>rd</sup> February 2023, 10 A.M to 04.00 P.M.
10. Mode of Session Delivery : Offline
11. Duration of the Activity (in mins) : 300



13. No of Faculty Participants : 5  
14. No of External Participants : Nil  
15. Expenditure Amount (in Rs.) : Nil

16. Objectives of the Activity (min 100 words):

The main objective is to learn winding design for step down transformer in the ranges of 240/9V/6V/3V and to learn design of three phase induction motor with 46/36/24 slots.

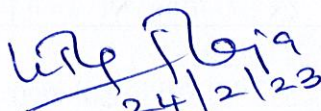
17. Benefits in terms of Learning / Skill / Knowledge obtained (min 150 words) :

The core arrangement designed for shell type transformer with primary turns rated for 240V. Secondary turns designed for different rating 9V/6V/3V. Insulation designed for both primary and secondary windings. The Meggar testing done for the transformer. Voltage tested for different tappings. The stator with 48/36/24 slots of three phase induction motor is designed and tested.

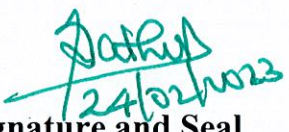
18. Video URL of the Activity : Nil  
19. Activity Photograph 1 and 2 : Attached in separate sheet  
20. Remarks : Nil

Date: 24.2.2023

Place: IIC Cell, AMSCE, Chennai

  
IIC Coordinator - EEE  
C.M.R. RAJEEZ RAJAJ

  
Signature and Seal  
Convener

  
Signature and Seal  
Head of the Institution

Dr. D. ZUNAITHUR RAHMAN, M.E., Ph.D.  
Assistant Professor,  
Department of Civil Engineering,  
Aalim Muhammed Salegh College of Engineering,  
Chennai - 600 055.

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AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING



Activity Photograph 1:



Activity Photograph 2:





**Number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years**

<b>Year</b>	<b>Name of the workshop/ seminar/ conference</b>	<b>Number of Participants</b>	<b>Date From – To</b>
2022-23	Workshop on Web Development	47	21.09.2022
2022-23	Career Guidance Program & Job Opportunities	54	27.09.2022
2022-23	Addressing and Identification of IOT Nodes	53	10.12.2022
2022-23	Career Guidance-Industry Readiness Programme	62	15.11.2022
2022-23	Seminar on Journal Writing	40	07.01.2023
2022-23	Workshop On 3d Printing	32	21.01.2023
2022-23	comparative analysis of vertical axis and horizontal axis wind turbine using Oblade Software	90	11.02.2023
2022-23	An Overview Of Mep Service In Building Industry	54	20.02.2023
2022-23	Faculty Training Program on MEP	45	20.02.2023
2022-23	Workshop On 3d Printing	45	22.02.2023
2022-23	Digital Marketing The New Normal	51	25.02.2023
2022-23	Workshop on Android Application Development	51	15.03.2023
2022-23	Webinar on Reference Management & Knowledge Organization for Journal Writing	49	18.03.2023
2022-23	Reach Career Highs	30	09.05.2023
2021-22	Carrier Guidance	31	3.07.2021
2021-22	Publications And Ability To Patent	47	08.09.2021
2021-22	It Industry Expectations	35	08.11.2021
2021-22	Career In Software Testing	36	05.01.2022
2021-22	Role Of Power Electronics In Renewable Energy Systems And Electric Vehicle	50	03.01.2022
2021-22	IPR: Protection For Innovation	32	17.01.2022
2021-22	Granted Patent Publishing	30	23.03.2022
2021-22	Workshop on 3D PRINTING	55	11 and 12.04.2022
2021-22	Design Of Vertical Axis Wind Turbine Using Q-Blade Software	29	27.04.2022
2021-22	Online Guest Lecture On The Topic Highway Engineering	60	08.04.2022



2021-22	Prepare Yourself For Industry 4.0	55	13.04.2022
2021-22	DIGITAL MARKETING WORKSHOP	70	23.05.2022
2021-22	Computer Awareness Training Programme	40	30 and 31.05.2022
2021-22	An Era Of Digital Marketing	45	03.06.2022
2020-21	Materials Joining In Power Sector – Present & Future	45	17.07.2020
2020-21	Patent Search And Patent Mining	53	16.09.2020
2020-21	Webinar On Research Perspectives In Ceramic Engineering	55	13.03.2021
2020-21	Patent- From Idea To Granted	40	17.03.2021
2020-21	Webinar On Industry 4.0	48	17.04.2021
2020-21	Webinar On Project Funding Through Journal Publication	30	24.04.2021
2020-21	Webinar On Contemporary Career Opportunities Mep &Bim	50	28..04.2021
2019-20	Methodologies For Generating Revenue Through Research With Patents &Inr	57	23.07.2019
2019-20	Seminar on awareness of Higher Education programs	55	01.08.2019
2019-20	Digital Marketing Fundamentals	54	08.08.2019
2019-20	Preparing Research Proposals And Writing Journal Papers	60	10.12.2019
2019-20	Robotic Process Automation	40	11.03.2020
2018-19	Awarness Program On Patents Filling	30	20.08.2018
2018-19	Research Paper Writing using Software tools	45	01.11.2018
2018-19	Digital Marketing Workshop	50	31.12.2018
2018-19	Webinar on Reference Management & Knowledge Organization for Journal Writing	55	10.12.2018
2018-19	Workshop on Android Application Development	45	15.02.2019
2018-19	Career Guidance Program & Job Opportunities	60	19.02.2019
2018-19	Workshop on Web Development	40	27 and 28.02.2019



  
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### 3.4.3 Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community

Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme	Year of the activity
Toilet Opening	NSS	Swachh Bharat Summer Internship Programme	2018-19
Leaning activity	NSS	Saansad Adharsh Gram Yojana (SAGY)	2018-19
Gone to delta region and give aid to needy people in India	NSS	Gaja Cyclone relief - 2018	2018-19
Creating awareness and importance of casting votes	NSS	IX National Voter's Day Celebration	2018-19
Rejuvenating the Lake	NGO	Eco Awareness Rally	2018-19
CCTV Installation	NSS and T8 Muthapudupet Police Station	CCTV Awareness Rally	2018-19
Inaugural Function, Plastic Eradication Awareness, Cleaning of High School	NSS	Program on Not me But You	2018-19
Women Health and Public Hygiene, Importance of Education, Time Management & Examination fear to 10th std students, Sports Competition for High school students	NSS	Program on Not me But You	2018-19
Cleaning of Welfare to School, Cultural Activities to welfare School Students	NSS	Program on Not me But You	2018-19
Visit to Sevalaya Old age Home, Cleaning sevalaya old age	NSS	Program on Not me But You	2018-19
Painting Palavedu Govt. High School	NSS	Program on Not me But You	2018-19
Cleaning and Cementing of High School	NSS	Program on Not me But You	2018-19
Special Camp Valedictory function, Counselling classes on Maths, Science and English for 10th students	NSS	Program on Not me But You	2018-19
NSS Volunteers practices Yoga	NSS	International Yoga Day	2019-20
Water Conservation and Rain Water Harvesting	NSS	JAL DIWAS - Jal Shakti Abhiyan	2019-20
Rural Visit in Palavedu Village	NSS	Unnat Bharat Abhiyan	2019-20
Rural Visit in Pakkam Village	NSS	Unnat Bharat Abhiyan	2019-20
Rural Visit in Puliur Village	NSS	Unnat Bharat Abhiyan	2019-20
Rural Visit in Kadavur Village	NSS	Unnat Bharat Abhiyan	2019-20
Rural Visit in Kilakondaiyur Village	NSS	Unnat Bharat Abhiyan	2019-20
Distribution of Nilavembu Kashayam	NSS	Preventive campaign for Dengue and H1N1 virus	2019-20
Oath taken by students and NSS programe officers	NSS	Samvidhan Divas Celebration – Constitution Day	2019-20
Adhaar Card enrollment for students and nearby villages	NSS	Program on Aadhar Card awareness	2019-20
Adhaar Card enrollment for students and nearby villages	NSS	Program on Aadhar Card awareness	2019-20
Adhaar Card enrollment for students and nearby villages	NSS	Program on Aadhar Card awareness	2019-20
Awareness of Covid 19	NSS	Awareness Campaign-Novel corona virus	2019-20
Inaugural Function, Village Survey	NSS	Program on Not me But You	2019-20
Cleaning of School and white washing the walls	NSS	Program on Not me But You	2019-20



Wall paintings in schol building	NSS	Program on Not me But You	2019-20
Cleaning the Roof top of schools and white washing	NSS	Program on Not me But You	2019-20
Plastic Eradication, value of Education, Computer Science Education, Fixing of School name Board	NSS	Program on Not me But You	2019-20
Women Health and Hygiene	NSS	Program on Not me But You	2019-20
Counselling for our sis students, Corona Awareness Programme and hand wash techniques to school students. Special camp Melodiatory	NSS	Program on Not me But You	2019-20
Hand Washing Technique	Primary Health Center, Mittanapalli	Corona Awareness Programme	2019-20
Rashriya Ekta Diwas	NSS	Rashriya Ekta Diwas - National Unity Day	2020-21
Oath taking	NSS	Vigilance awareness week	2020-21
Online webinar – Virtual Implications of Digital service usage	NSS	Awareness on Digital eye strain and COVID 19	2020-21
Online Plastic Eradication Programme	NSS	Online Plastic eradication awareness Programme	2020-21
Distribution of Kabasura Kudineer to hostel students	NSS	Prevention campaign for COVID-19	2020-21
Plantation programme	NSS	Green Initiative Plantation Programme	2020-21
International day of Yoga	NSS unit	International day of Yoga	2021-22
Bharat Ki Azadi Ka Amrit Mahotsav' celebrations 50	NSS unit	Bharat Ki Azadi Ka Amrit Mahotsav	2021-22
COVID-19 Vaccination camp	NSS unit and Avadi Municipal Corporation	Vaccination camp	2021-22
Awareness programme	NSS unit	Dengue , Malaria and COVID-19	2021-22
Online Plastic Eradication Awareness Programme	NSS unit	Swachh Bharat Abhiyan	2021-22
Webinar on Importance of Agriculture	NSS unit	Unnat Rharat Abhiyan	2021-22
COVID-19 Mega vaccination drive	NSS unit and Avadi Municipal Corporation	Vaccination Camp	2021-22
Medical camp and COVID-19 vaccination Camp	NSS unit and Avadi Municipal Corporation	Vaccination Camp	2021-22
Azadi Ka Amrit Mahotsav (AKAM) -one day Seminar	NSS unit	Role of youth in Future India” one day Seminar	2021-22
Aawareness Programme	NSS unit	Strategic approach towards Omicron	2021-22
Mass cleaning	Greater Chennai Corporation and Department of Drinking water supply with NSS	Mass cleaning programme	2022-23
Students and teachers performed Yoga	NSS unit	International Yoga Day	2022-23
Competitions Conducted	NSS unit	Azadi Ka Amrit Mahotsav	2022-23
Awareness Programme for School Students	NSS unit	Azadi Ka Amrit Mahotsav	2022-23
Tree Plantation Programme and Environmental Awareness	NSS unit	Azadi Ka Amrit Mahotsav	2022-23
Awareness Activity	NSS unit	National Deworming Day	2022-23
Celebration Activity	NSS unit	NSS Day	2022-23



Awareness Activity	NSS unit	Rashtriya Ekta Diwas	2022-23
Awareness Activity	NSS unit	Welfare School Visit	2022-23
Rural Visit in Palavedu Village	NSS unit	Unnat Bharat Abhiyan	2022-23
Rural Visit in Pakkam Village	NSS unit	Unnat Bharat Abhiyan	2022-23
Rural Visit in Puliyur Village	NSS unit	Unnat Bharat Abhiyan	2022-23
Rural Visit in Kadavur Village	NSS unit	Unnat Bharat Abhiyan	2022-23
Rural Visit in Kilakondaiyur Village	NSS unit	Unnat Bharat Abhiyan	2022-23
Rural Visit in kottur Village	NSS unit	Unnat Bharat Abhiyan	2022-23
Awareness Activity	NSS unit	Medical Awareness Programme	2022-23
Rejuvenating the Lake	NSS unit	Eco Awareness Rally	2022-23
CCTV Installation	NSS unit	CCTV Awareness Rally	2022-23



  
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