

Pillai



Indian Space Research Organization
Indian Institute of Remote Sensing, Dehradun
Outreach Programme
Remote Sensing, Geoinformatics and GNSS

ISRO **iirs**

edusat

Pillai HOC College of Engineering and Technology, Rasayani



ISRO lab,PHCET Inaugurated by **DRM Samudraiah**
Deputy Director(Retired) SAC ,ISRO



Network Coordinator
Prof.Karthik Nagarajan



Civil Engineering faculties participation in various Courses in IIRS EDUSAT Programme Centre

PILLAI ISRO Outreach



PILLAI HOC COLLEGE OF ENGINEERING & TECHNOLOGY

Pillai HOC Educational Campus, HOC Colony, Rasayani, Via. Panvel, Dist. Raigad, Pin 415287

Tel: 02192 - 252005 / 250066 Fax : 02192 - 252067

Website : www.phcet.ac.in Email : principal.phcet@mes.ac.in

Approved by AICTE, DTE, Government of Maharashtra and Affiliated to the University of Mumbai

PHCET/OPC/4999/2017-18

Date: 16/06/2017

To,
The Project Manager,
IIRS Outreach Programme,
Indian Institute of Remote Sensing,
Indian Space Research Organisation,
Department of Space, Govt. of India,
Dehradun- 248001

Subject: Regarding sanction of IIRS Outreach Programme Centre in our Institute.

Dear Sir,

With reference to the above subject, we are pleased to start the IIRS Outreach Programme Centre in our Institute in the department of Civil Engineering. We request you to send the required documents and technical formalities and grant the permission to start Remote Sensing Centre in our college.

Pillai HOC College of Engineering and Technology is affiliated to Mumbai University, recognized by AICTE and Government of Maharashtra. Institute runs with UG, PG and Ph.D. Programs. Civil Engineering Department started in June 2009 and running UG, PG courses with research centre leading to Ph.D. degree. The student and faculty are attempting to upgrade the academic as well as infrastructural status of the department. One of the faculty of the department Mr. Karthik Nagarajan is attending eight weeks ISRO sponsored NRMMS course 2017, at IIRS, Dehradun since 1st May 2017. We would like to appoint Mr. Karthik Nagarajan as course Coordinator to look after the activities and he will be a single point of contact for any communication between PHCET and ISRO.

The following facilities are available in our college.

- Open source software copy of QGIS and ILWIS.
- Well-furnished Lab of 20 Computers in LAN
- LCD Projector
- Audio System with wireless mic.

Details of Course Coordinator

Mr. Karthik Nagarajan
Assistant Professor,
Department of Civil Engineering,
Pillai HOC College of Engineering and Technology, Rasayani
Pin- 415297
E-mail: knagarajan@mes.ac.in
Mob. 09819 420 975

We request you to sanction the outreach programme (center of Remote Sensing and GIS) in our college. Kindly consider our application.

Head of Department



Principal 16/6

11/07/2019

Mahatma Education Society Mail - Confirmation for Conducting IIRS Outreach Programme



Karthik Nagarajan <knagarajan@mes.ac.in>

Confirmation for Conducting IIRS Outreach Programme

6 messages

IIRS Distance Learning <elearning@iirs.gov.in>
Reply-To: e-learning@iirs.gov.in
To: knagarajan@mes.ac.in
Cc: harish@iirs.gov.in, dip@iirs.gov.in

Tue, Jun 20, 2017 at 10:12 AM

Dear Mr. Karthik Nagarajan,

I am happy to inform you that your organization is now network institute of IIRS outreach network. The name of your Institute is included in online application form of IIRS Outreach Programme.

Please see the attached documents for more technical details of the programme. Please ask your participant to register for the course. You will be receiving further communications from our side as a coordinator for all other course requirements and your roles and responsibilities for successful conduction of the programme. Please note your login credentials for A-view and IIRS LMS as given below. The credentials for A-view will be activated 2 days before the course is starting.

Please login to the IIRS Learning Management System (LMS) to approve your students registration and maintain the attendance record.

URL: http://elearning.iirs.gov.in/edusat_lms/cms/index.php

Username for IIRS LMS: i

Username for A-view: _____

Password for both: (_____)

I hope that you and your participants will have an exciting learning experience with us in the field of Remote Sensing, GIS and GNSS technologies and their applications.

For any further clarification please mail us at: dip@iirs.gov.in | or call us at Tel:+91-135-2524130

Thanking you.

With Best Regards

Harish Kaamatak
Head, GIT & DL Department
RSGG, IIRS/ISRO, Dehradun.

Attachments:

1. Guideliness for coordinator
2. Step-by-step Procedure for downloading A-VIEW Software and attending live classes

2 attachments

[guidelines_for_coordinator.pdf](#)
202K

[Step-by-Step Procedure to attend the course.pdf](#)
787K

ISRO LAB Inauguration



ISRO LAB Inauguration



ISRO LAB Inauguration by

DRM Samudraiah Deputy Director Space Applications Centre
ISRO Ahmedabad along with **Dr.Chelpa Lingam** (Principal),
Dr.Shrikant Charhate (Dean), **Dr.Anjana Vyas** (CEPT
Ahmedabad) and **Prof.Karthik Nagarajan** (IIRS Outreach
Network Coordinator)



Best Coordinator Award



LEFT TO RIGHT

Dr. S. K. Srivastav , Scientist/Engineer- G, Dean (Academics) , IIRS ISRO

Shri Shantanu Bhatawdekar Associate Director, EDPO, ISRO HQ.

Dr. A. Senthil Kumar, Director CSSTEAP

Dr. R.R. Navalgund , Director & Distinguished Scientist, Space Application Centre, ISRO

Prof.Karthik Nagarajan ,Network Coordinator , Pillai ISRO Outreach Network Institute

Mr. Pramod Kumar , Scientist/Engineer- SG & Group Head

Dr. Arijit Roy , Scientist/Engineer- SF, Head

Best Coordinator Award



Best Coordinator Award-2018 & 2017

2018 - BEST Network Institute Coordinator Award (IIRS ISRO Outreach Program) For Contribution towards promoting Geospatial Technology and its applications in Year 2018 IIRS, Indian Space Research Organisation (ISRO)



2017 - Upcoming Network Institute Coordinator Award (IIRS ISRO Outreach Program) For Contribution towards promoting Geospatial Technology and its applications in Year 2018 IIRS, Indian Space Research Organisation (ISRO)



7 Certificates courses by IIRS ISRO

We are happy to announce that
**Pillai HOC COLLEGE OF ENGINEERING
AND TECHNOLOGY, Rasayani**
Received



7 Certificates
From
IIRS, ISRO



For contributing towards promoting
GEOSPATIAL TECHNOLOGY



34 Courses , 4500+ students

Annexure A

A- 18 Remote Sensing (RS) and Geographic Information System (GIS) Edusat program

Sr.no	Seminar Title	Date	Program details	No of participants
1	UAV Remote Sensing and Applications	03 rd July to 07 th July 2017	<u>22nd Learning program</u> (For Faculty / Research scholars / PG / UG students)	23
2	Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System	21 st August to 10 th November 2017	<u>23rd Learning program</u> (For Faculty / Research scholars / PG / UG students)	145
3	Remote Sensing and Digital Image Analysis	21 st August to 15 th September 2017	<u>24th Learning program</u> (For Faculty / Research scholars / PG / UG students)	27
4	Hyper spectral Remote Sensing and its Applications	18 th September To 21 st September 2017	<u>25th Learning program</u> (For Faculty / Research scholars / PG / UG students)	55
5	Geographical Information System and Global Navigation Satellite System	25 th September to 10 th November 2017	<u>26th Learning program</u> (For Faculty / Research scholars / PG / UG students)	45
6	Remote Sensing and GIS Applications for Natural Resource Management	13 th November To 1 st December 2017	<u>27th Learning program</u> (For Faculty / Research scholars / PG / UG students)	80
7	Close range Photogrammetry and terrestrial laser Scanning	08 th Jan To 12 th Jan 2018	<u>28th Learning program</u> (For Faculty / Research scholars / PG / UG students)	39
8	Hyper spectral Remote Sensing and its Applications	19 th February To 14 th March 2018	<u>29th Learning program</u> (For Faculty / Research scholars / PG / UG students)	76
9	Geoinformatics for forest fire management	02 nd April to 06 th April 2018	<u>30th Learning program</u> (For Faculty / Research scholars / PG / UG students)	62
10	RS & GIS applications in Water Resources	16 th April to 27 th April 2018	<u>31st Learning program</u> (For Faculty / Research scholars / PG / UG students)	55
11	Geospatial Modeling for Watershed Management	01 st May to 07 th May 2018	<u>32nd Learning program</u> (For Faculty / Research scholars / PG / UG students)	96

12	Advanced Image Analysis	04 th June to 15 th June 2018	<u>33rd Learning program</u> (For Faculty / Research scholars / PG / UG students)	47
13	Geospatial Inputs for Enabling Master Plan Formulation under AMRUT Sub-scheme	23 th July to 27 th July 2018	<u>34th Learning program</u> (For Faculty / Research scholars / PG / UG students)	21
14	Geospatial Modeling Tools and techniques	13 th November To 1 st December 2017	<u>35th Learning program</u> (For Faculty / Research scholars / PG / UG students)	94
15	Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System	04 th Sept to 16 th November 2018	<u>36th Learning program</u> (For Faculty / Research scholars / PG / UG students)	770
16	Remote Sensing and Digital Image Analysis	04 th Sept to 14 th September 201	<u>37th Learning program</u> (For Faculty / Research scholars / PG / UG students)	716
17	Geographical Information System and Global Navigation Satellite System	17 th September to 26 th October 2018	<u>38th Learning program</u> (For Faculty / Research scholars / PG / UG students)	741
18	Remote Sensing and GIS Applications	29 th October to 11 th November 2018	<u>39th Learning program</u> (For Faculty / Research scholars / PG / UG students)	279
19	Remote Sensing in Crop Management / Agro-Metrology	03 rd to 07 th December 2018	<u>40th Learning program</u> (For Faculty / Research scholars / PG / UG students)	29
20	Hyperspectral Remote Sensing and its applications	21 st January to 1 st February 2019	<u>41st Learning program</u> (For Faculty / Research scholars / PG / UG students)	154
21	Principles of Polarimetric SAR Remote Sensing and its Processing	18 th February to 1 st March 2019	<u>42nd Learning program</u> (For Faculty / Research scholars / PG / UG students)	201
22	Advances in Forest Remote Sensing	5 th March to 13 th March 2019	<u>43rd Learning program</u> (For Faculty / Research scholars / PG / UG students)	168
23	Remote sensing based Mapping, Monitoring and Modeling of Landslide and Earthquake Hazards	22 nd April to 26 th April 2019	<u>44th Learning program</u> (For Faculty / Research scholars / PG / UG students)	80
24	RS and GIS Applications in Watershed Management	8 th April to 15 th April 2019	<u>45th Learning program</u> (For Faculty / Research scholars / PG / UG students)	60
25	Advances in Remote Sensing and geospatial technologies for Disaster early warning, monitoring and mitigation	8 th July to 12 th July 2019	<u>46th Learning program</u> (For Faculty / Research scholars / PG / UG students)	31
26	Satellite Remote Sensing for Air Pollution Studies	5 th August to 9 th August 2019	<u>47th Learning program</u> (For Faculty / Research	42

PHCET received 32 Certificates by ISRO (Samples)



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



COR228672017

श्री: पीरार सरक/ विभाग कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

संस्थान की सहभागिता का प्रमाण पत्र
CERTIFICATE OF PARTICIPATION OF INSTITUTE

यह प्रमाणित किया जाता है कि **पिल्लई एचओसी कॉलेज ऑफ इंजीनियरिंग और टेक्नोलॉजी** ने भारतीय सुदूर संवेदन संस्थान, इसरो देह्रादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम **"यूएवी सुदूर संवेदन एंव अनुप्रयोग"** में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 03 जुलाई 2017 से 07 जुलाई 2017 तक किया गया।

This is to certify that **Pillai HOC College of Engineering and Technology**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on **"UAV Remote Sensing and Applications"**. This online programme was conducted during July 03, 2017 to July 07, 2017.


दिनांक/Date: 26-07-2017
देहरादून/ Dehradun

Signature


ग्रुप
डिरेक्टर सर्विस, सूचना प्रौद्योगिकी एवं दूरस्थ शिक्षण विभाग
Group Director, Geospatial Technologies & Outreach Programme Group, IIRS

Signature

ग्रुप प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं अंतर्राष्ट्रीय कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



COR348672013

श्री: पीरार सरक/ विभाग कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

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This is to certify that **Pillai HOC College of Engineering and Technology**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on **"Geospatial Inputs for Enabling Master Plan Formulation under AMRUT Sub-scheme"**. This online programme was conducted during July 23, 2018 to July 27, 2018.


दिनांक/Date: 22-09-2018
देहरादून/ Dehradun

Signature


ग्रुप
डिरेक्टर सर्विस, सूचना प्रौद्योगिकी एवं दूरस्थ शिक्षण विभाग
Head, Geospatial Technologies & Outreach Programme Group, IIRS

Signature

ग्रुप प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं अंतर्राष्ट्रीय कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



COR358672018

श्री: पीरार सरक/ विभाग कार्यक्रम प्रमाण पत्र
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This is to certify that **Pillai HOC College of Engineering and Technology**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on **"Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System"**. This online programme was conducted during September 04, 2018 to November 24, 2018.


दिनांक/Date: 28-11-2018
देहरादून/ Dehradun

Signature


ग्रुप
डिरेक्टर सर्विस, सूचना प्रौद्योगिकी एवं दूरस्थ शिक्षण विभाग
Head, Geospatial Technologies & Outreach Programme Group, IIRS

Signature

ग्रुप प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं अंतर्राष्ट्रीय कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



COR458672019

श्री: पीरार सरक/ विभाग कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

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This is to certify that **Pillai HOC College of Engineering and Technology**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on **"RS and GIS Applications in Watershed Management"**. This online programme was conducted during April 08, 2019 to April 15, 2019.

दिनांक/Date: 31-07-2019
देहरादून/ Dehradun

Signature

ग्रुप
डिरेक्टर सर्विस, सूचना प्रौद्योगिकी एवं दूरस्थ शिक्षण विभाग
Head, Geospatial Technologies & Outreach Programme Group, IIRS

Signature

ग्रुप प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं अंतर्राष्ट्रीय कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

The National Natural Resources Management System (NNRMS), a national level inter-agency system set-up in 1983 and chaired by the Member, Planning Commission, Govt. of India, steers the EO programme in the country
<https://www.iirs.gov.in/nrmssponsoredcourses>



Mr. Karthik Nagarajan
Associate Professor
Civil Engg Dept , PHCET
(NNRMS 2017)



Mr. Raju Narwade
Associate Professor
Civil Engg Dept , PHCET
(NNRMS 2018)



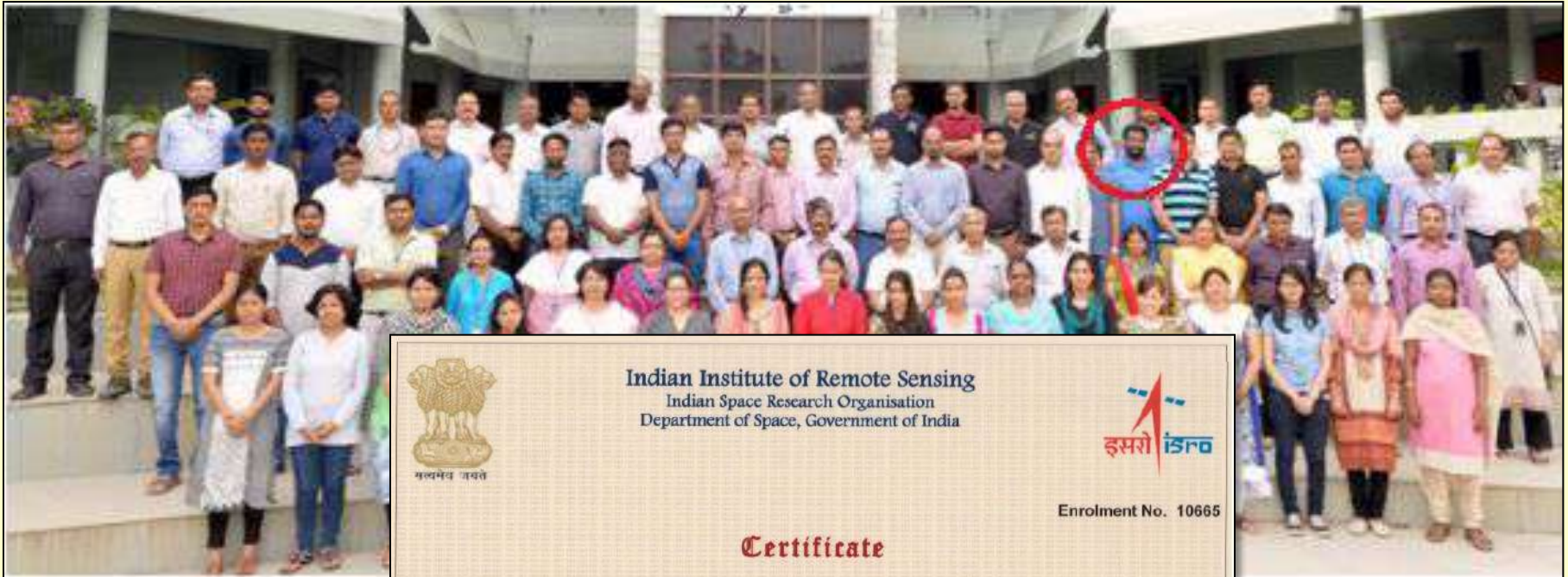
Ms. Manisha Jamgade
Associate Professor
Civil Engg Dept , PHCET
(NNRMS 2019)



Civil Engineering Department , PHCET –PhD Research Scholars

The National Natural Resources Management System (NNRMS), a national level inter-agency system set-up in 1983 and chaired by the Member, Planning Commission, Govt. of India, steers the EO programme in the country

<https://www.iirs.gov.in/nnrmsponsoredcourses>



Mr. Karthik Nagarajan
Associate Professor
Civil Engg Dept , PHCET
(NNRMS 2017)



Pillai HOC College of Engineering is proud to inform you that 4 students of ME Civil Engineering have been selected by IIRS, ISRO for internship



4 M.E Students



Archana R Lokhande

M.E. (Pursuing in Construction Engineering and Management)
B.E. (Civil Engineering)



Poonam S. Tiwari

Designation: Scientist/Engineer - SF
Department: Remote Sensing and Geoinformatics Group
Field of Expertise: Photogrammetry, Automatic Feature Extraction



Nivrutti Dhyanaobha Bhosale

M.E. (Pursuing in Construction Engineering and Management)
B.E. (Civil Engineering)



Dr. Praveen K. Thakur

Designation: Scientist/Engineer - SF
Department: Water Resources Department
Field of Expertise: Snow/Glacier, Flood and Groundwater Hydrology, Hydrological Modelling, Planetary Remote Sensing



Divyashree P Yadav

M.E. (Pursuing in Construction Engineering and Management)
B.E. (Civil Engineering)



Prof. Hina Pande

Designation: Scientist/Engineer - SF
Department: Photogrammetry and Remote Sensing
Field of Expertise: Photogrammetry and Image Analysis



Rahul Unnikrishnan Nair

M.E. (Pursuing in Construction Engineering and Management)
B.E. (Civil Engineering)



Prof. Raghavendra S

Designation: Scientist/Engineer - SD
Department: Photogrammetry and Remote Sensing Department
Field of Expertise: LiDAR, GPS, and Remote Sensing

(Student)

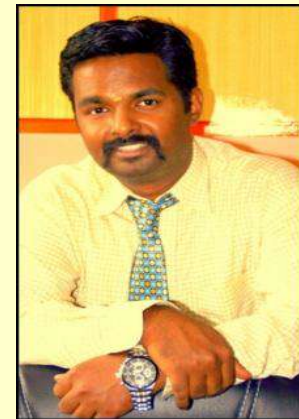


(Scientist)

(Student)



(Scientist)



Prof. Karthik Nagarajan (Guide)

(L-R) : Mr. Asokan, Mr. Karthik N, Dr. Lata Menon (Dep. CEO, Pillai HOC Educational Campus), Mr. Rahul N, Dr. Vasudevan Pillai (Chairman- MES), Dr. Pradip Chatterjee (Dir-PHIMSR), Ms. Divyashree, Dr. Nivedita Shreyans, Mr. Nivrutti, Prof. Amar Mange (Principal - PHP)
Associate Professor - Civil Engineering Department
Coordinator - Pillai ISRO Outreach Network Institute

3 B.E Students



Akshata V Patel

B.E.(INFORMATION TECHNOLOGY)



Akshay M Anarse

B.E.(INFORMATION TECHNOLOGY)



Rohan Kumar

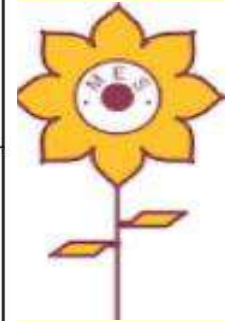
B.E.(COMPUTER ENGINEERING)



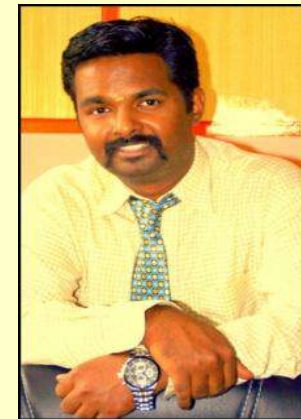
MR.KAMAL PANDEY

Designation:Scientist/Engineer - SD & Web Information Manager

Field of Expertise:Geospatail Software Design and Development



(L-R) : Mr. Akshay A, Miss. Akshata P , Dr. Mathew J
Dr. Vasudevan Pillai (Chairman- MES) , Mr.Karthik N, Dr. J. E. Nalavade



Prof.Karthik Nagarajan(Guide)
Associate Professor - Civil Engineering Department
Coordinator - Pillai ISRO Outreach Network Institute

Internship at IIRS ISRO , Dehradun



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Chirag Dhoble (Student Coordinator), Divyashree Yadav (M.E CIVIL) ,
Archana Lokhande(M.E CIVIL), Prof. Karthik Nagarajan,
Rahul Nair (M.E CIVIL), Nivrutti Bhosale(M.E CIVIL)



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Mr.Karthik Nagarajan presented a paper on **Case Study on Innovations in geospatial technology and space science in rural areas by Pillai HOC College of Engineering and Technology – A ISRO IIRS Outreach Network Institute** in the National Symposium on Innovations in geospatial technology for sustainable development with special emphasis on NER hosted at **NESAC , Shillong , Meghalaya during November 20-22,2019**. He also participated in Pre-symposium tutorials on UAV Remote sensing – Acquiring , processing and derivatives conducted at NESAC.



(L-R) Dr. Prakash Chauhan (Director Indian Institute of Remote Sensing ISRO) , Mr.Victor Saikhom Scientist (North Eastern Space Application Centre) , Mr.Tapen Mishra (Former Director at Space Applications Centre ISRO & President ISRS & ISG) , Shri P.L.N. Raju (Director North Eastern Space Application Centre) , **Mr.Karthik Nagarajan (Asso.Prof-PH CET & Pillai ISRO-IIRS Outreach Network Institute Coordinator)** , Dr.Y.V.N Krishnamurthy (Former Director – NRSC/IIRS/RRS's/NARL/Antariksh Board/CSSTEAP)



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Schedule of presentations for ISG-ISRS NS 2019

T-B: ISPRS TC-5 Special Session

T-B: ISPRS TC-5 SPECIAL SESSION

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201807024	Multi-mission Satellite data dissemination using IP based multicasting: A case study to evaluate reliable UDP protocols	Oral	UTKARSH	utkarsh@isac.isro.gov.in
201807140	Evaluation of ICDS programme using Geospatial Technologies	Oral	SUBHASINY S	subhasiny35@gmail.com
201907408	Case Study of Skill Development and Capacity Building of Space Science in Rural Areas by Pillai HOC College of Engineering and Technology (PHCET)- A IIRS ISRO Outreach Network Institute	Oral	KARTHIK NAGARAJAN	knagarajan@mes.ac.in

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National Symposium on
**Innovations in Geospatial Technology
for Sustainable Development with
special emphasis on NER**



ANNUAL CONVENTIONS



and
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November 20 - 22, 2019
Shillong, Meghalaya

Jointly organised by

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National Symposium on
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सेवागैT o

Mr.Karthik Nagarajan

विषय Sub: ISG-ISRS National Symposium 2019

Sir,

On behalf of the Organising committee of ISG-ISRS National Symposium 2019, I am pleased to inform you that your Abstract titled Case Study of Skill Development and Capacity Building of Space Science in Rural Areas by Pillai HOC College of Engineering and Technology (PHCET)- A IIRS ISRO Outreach Network Institute has been accepted for Oral presentation during the symposium.

You are requested kindly to note the followings:

1. Acceptance of the Extended Abstract is subjected to receipt of the registration fee.
2. You are required to submit the .doc file of the Extended Abstract. If it was submitted in .pdf file.
3. You are required to prepare the oral presentation in .ppt format as per template given in the symposium website. For poster presentation kindly follow the template given in the symposium website <http://www.isgns2019.in>

आदरसैसाथ/With kind regards,

आदरसैसाथ/Yours sincerely

(पी.एन.जनराजु/P.L.N. Raju)

अध्यक्ष/Chairman

संयोजक/संयोजकसमिति/Symposium Organizing Committee



ISG Shillong Chapter, Room No. 219, North Eastern Space applia
Umiam-793103, Meghalaya, India. Phone: +91-364-23387012,
2338725

Fax: +91-364-2670043, Email: isgsshillong2019@gmail.com



Pillai

Case Study of Skill Development and Capacity Building of Space Science in Rural Areas by Pillai HOC College of Engineering and Technology (PHCET) - A IIRS ISRO Outreach Network Institute

Karthik Nagarajan*

IIRS ISRO Outreach Network Coordinator and Associate Professor, Pillai HOC College of Engineering and Technology, Rasayani, Maharashtra- 410207
knagarajan@mes.ac.in
 +91-9819420975

Abstract

The objective of this paper is to understand the role of IIRS Outreach Centre conducted by Pillai HOC College of Engineering and Technology (PHCET) in rural and urban India. Looking at the evolution of Remote Sensing and GIS evolving in our institute, this subject is also included in UG and PG courses. From July 2017 till date, about 32 Outreach courses were conducted in this rural area with registration about 4500 students. The paper summarizes the feedback taken from these students after completion of courses on various skill parameters and explains how the rural students take part in these courses, there research interest towards space science and joining ISRO to serve our country.

Key words: Skill development, IIRS ISRO Outreach Programme, Capacity Building

1. Introduction

Globally the role of Remote Sensing(RS), GIS and space science is increasing rapidly across many country so as in India and the recent development in the past few decade has brought lots of awareness in this field of space science. IIRS Outreach programme focus on strengthening the academic and user segments in space technology and its applications using online learning platforms. The syllabus content in various institutions across India cover a very less amount. RS and GIS in UG and PG level. Looking at the evolution of this technology, now RS and GIS subject is also included in UG and PG in Mumbai University. As IIRS ISRO has appreciated our institute Pillai HOC College of Engineering and Technology (PHCET) for contribution towards capacity building by awarding the best coordinator award in 2018 to the author. This paper is to understand the various activities which had been conducted to improve capacity building in the area of RS, GIS and space science.



Figure 1: Methodology and PHCET Outreach Centre Details

2. Methodology

Till date about 32 Outreach Programme, have been conducted in which around 4500+ students registered and over 1000+ students got certified through these programmes(Refer figure 1). 7 workshops and 2 STTP were also conducted in which various Scientist from ISRO (Dehradun,

Ahmedabad etc.) and other Network coordinators from various other Outreach Institute were invited to our institution and they interacted with our students through STTPs, seminars, workshop etc. Many teachers from PHCET have taken NNRMS training at IIRS and understood the concepts in this course which is later transferred to the students in their academic. Till date 3 Research scholars, 4 PG students and 3 UG students have taken training at IIRS ISRO Dehradun. Spreading awareness to children of rural area under ISRS-Mumbai Chapter was a big success in the recent past

3. Result

An overall feedback from 428 random students were taken and the figures are quite promising. Figure 2 shows feedback analysis of various questions asked to improve the outreach centre and bring quality education and increase capacity building. About 97.3% are from Engineering background as shown in figure 2

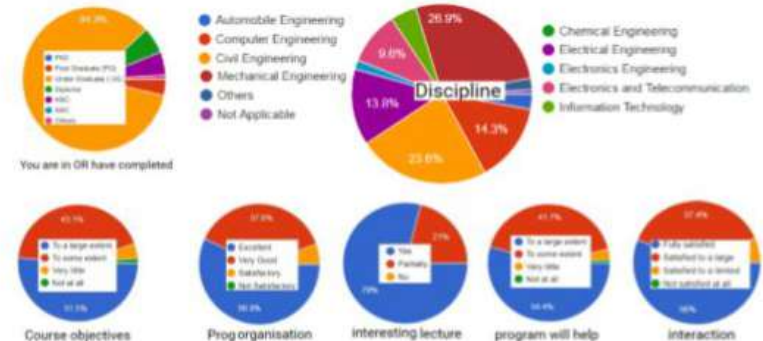


Figure 2: Feedback from students of IIRS Outreach Centre (PHCET)

4. Conclusion

Feedback shows that 69% students are interested in learning how to make satellites, 44.2% are interested in Rocket science, 30.3% showed their interest in making mars and moon rovers. 94.6% students commented that the objective of the course covered to a large extent. Table 1 shows the total capacity building development at PHCET Outreach centre from July 2017 till date

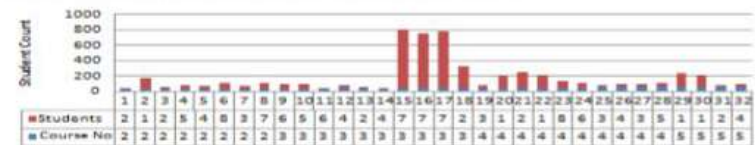


Table 1: Capacity Building at IIRS Outreach Centre (PHCET)

5. Acknowledgement

Indian Institute of Remote Sensing (IIRS) and Indian Society of Remote Sensing (ISRS)

6. References

[1] Naslund, John A. PhD; Shidhaye, Rahul MD; Patel, Vikram MD, 2019, Digital Technology for Building Capacity of Nonspecialist Health Workers for Task Sharing and Scaling Up Mental Health Care Globally Harvard Review of Psychiatry: May/June 2019 - Volume 27 - Issue 3 - p 181-192



Ref. No:- PHCET/CNM/1488 /2019-20

Date : 20th Nov 2019

The Director
 North Eastern Space Applications Centre
 Dept. of Space, Govt. of India
 Umiam, Shillong-793103, India

Subject: Collaboration of North Eastern Space Application Centre (NESAC) with Mahatma Education Society's (MES's) Pillai HOC College of Engineering and Technology, Rasayani (PHCET) & Pillai Group of Institutions

A Collaboration was signed between NESAC with MES's PHCET & Pillai group of Institutions on 20th Nov 2019 to collaborate in the mutual areas of strengths in teaching and research that will mutually benefit the students and faculty of both the organizations.

The Mahatma Education Society embarked upon its mission of "Education for all" with the Chembur English High School in the year 1970. The vision, dedication, global outlook, tenacious struggle and undaunted spirit of the Chairman and C.E.O., Dr. K. M. Vasudevan Pillai and the forward looking, untiring energy of the Secretary, Dr. (Mrs.) Daphne Pillai have now transformed the Mahatma Education Society into a vast educational organization, spread over six elegant campuses at Chembur, New Panvel (Sector 7), New Panvel (Sector 8), New Panvel (Sector 16), Borivali (Gorai) and Rasayani (Raigad District). The Society now manages a total of 48 educational institutions providing quality education from kindergarten to Post-graduate professional courses (including PhD) in the faculties of Engineering, Architecture, Management, Teachers' Training, Arts, Science and Commerce to more than 30,000 students with 2,000 Teachers and 1,500 members of Non-Teaching Staff. Institutions managed by Mahatma Education Society are affiliated to the University of Mumbai, approved by AICTE / COA / NCTE and recognised by the DTE, Government of Maharashtra and accredited / graded by NAAC / NBA.

As we are having IIRS Outreach Network Institute (ISRO), this collaboration with NESAC will surely improve the quality of research in our country in the field of Geospatial technologies.

The collaboration detailing the modalities and general conditions regarding academic/research collaboration between NESAC with Mahatma Education Society's Pillai HOC College of Engineering and Technology, Rasayani (PHCET) & Pillai Group of Institutions for enhancing, within the country, the availability of highly qualified manpower in the areas of Remote Sensing, Atmospheric Sciences, Satellite Communications, Disaster Risk Reduction and any other relevant application areas with space technology based inputs was signed between Director, NESAC and Principal, PHCET. It was also agreed for mutual academic collaboration in the areas of Unmanned Aerial Vehicles (UAVs), Physics, Life Sciences, Geosciences, Aero Space Engineering, etc.

Mr.Karthik Nagarajan, Associate Professor Civil Engineering Department, PHCET (Network Coordinator- Pillai ISRO Outreach Network Institute & Secretary-ISRS Mumbai Chapter) will be coordinating with NESAC in future for above mentioned research and training related activities .

Thanking you


 Dr. Madhumita Chatterjee
 Principal
 Pillai HOC College of Engineering & Technology
 Pillai HOCL Educational Campus,
 Rasayani, Tal. Khalepur,
 Dist. Raigad - 410 207.



PHCET is in Pipeline with collaboration with NESAC (North Eastern Space Application Centre.
Submitted the required documents on 20th Nov 2019 where in PHCET faculty and students will be doing research projects at NESAC head quarters and labs (Long internships)



**CENTRE FOR SPACE SCIENCE AND TECHNOLOGY
EDUCATION IN ASIA AND THE PACIFIC (CSSTEAP)**
Affiliated to the United Nations



Mr. Karthik Nagarajan is been selected by CSSTEAP (UN) for a 2 week Small Satellite Mission from 25th Nov to 6th Dec 2019 where in he is one among 9 Indian selected from various other Asia-Pacific region countries.

Objective

- To create awareness about small satellites, space technology and opportunities
- To disseminate knowledge required for small satellites technology
- To sensitize professionals in developing, launching and utilizing the benefits of small satellites
- Exposure to infrastructure required for small satellite development

Small Satellite Mission

**Centre for Space Science and Technology Education
in Asia and the Pacific**
(Affiliated to the United Nations)



email : cssteap@sirs.gov.in
cssteapun@gmail.com
website : www.cssteap.org
Dated: October 18, 2019

No. CSSTEAP/8th SSM/2019

Dr. Madhumita Chaterjee
Principal,
Pillai HOC College of Engineering & Technology, Raigad,
Via Panel, Raseyanji, Taluka-Kharapur, Dist - Raigad 410207,
Maharashtra, India
Phone-02152252005
Email- principal_phoc@mes.ac.in

**Sub: Admission Letter- CSSTEAP International Training Course on 8th Small Satellite Mission at IRS,
(November 25 - December 06, 2019)**

Dear Dr. Madhumita Chaterjee,

I am glad to inform you that **Mr. Karthik Nagarajan** from your organization has been selected for admission for the 8th International training course on Small Satellite Mission at IRS, Dehradun subject to the condition that all training related expenses including travel from his place to Dehradun and back, their living expenses etc. will be borne by the candidate/organization and submission of duly filled enclosed undertaking form to the Centre.

1. The candidate is expected to reach Dehradun, India preferably one day in advance i.e. on **November 24, 2019**.
2. Single room furnished accommodation with a common kitchenette in the Hostel will be provided to the candidate, on payment basis at a nominal charge of Indian rupees 100/- per day. However, Indian food is also available on payment basis (Indian rupees 3,000/- per month approximate) in mess at IRS.
3. The course fee of Rs. 15000/- may please be sent by Demand Draft in favour of Accounts Officer, CSSTEAP, Dehradun or by electronic transfer as per the bank details attached.

The candidate should bring 06 copies of the recent passport size photograph. Candidate is also advised to send medical fitness certificate if not sent before.

The candidate may be advised to confirm his acceptance of joining the course to the Centre by **October 20, 2019** through email (cssteap-admissions@sirs.gov.in, cssteap@sirs.gov.in) or fax (0135 2740785). In case, we do not receive written confirmation either (on email or fax) by **October 20, 2019** (COB), we will be obliged to operate the waiting list.

With regards,

Yours sincerely,


(Dr. S.P. Agarwal)
Programme Coordinator, CSSTEAP

Copy to:

Mr. Karthik Nagarajan
Associate Professor
Mahatma Education Society, Pillai HOC College of Engineering & Technology,
Raigad, Via Panel, Raseyanji, Taluka-Kharapur, Dist - Raigad 410207, Maharashtra, India
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Dr. A. Senthil Kumar
Director, CSSTEAP

Dr. Prakash Chauhan
Director-IRS

Headquarters IRS Campus, P.B. No. 222, 4, Kalidas Road Dehradun - 248001 Tel: 91-135-2740737 2740787 Fax: 91-135-2740785	Delhi Office Department of Space Lot Nayak Bhawan 3 rd Floor, Khan Market New Delhi - 110003 Tel: 91-11-24694745 91-11-2463871	IRS Campus Indian Institute of Remote Sensing (IRSRO) No. 4, Kalidas Road Dehradun - 248001 Tel: 91-135-2744583 91-135-2741987	SAC Campus Space Application Centre Ambawari Vistar PO, Jodhpur Tekra Ahmedabad - 380019 Tel: 91-79-26913344 91-79-26915843	PRL Campus Physical Research Laboratory Navrangpura Ahmedabad - 380009 Tel: 91-79-26080550 91-79-26300374	URSC Campus U R Rao Satellite Center Vemanguru Post: Bangalore - 560017 Tel: 91-80-23202552 91-80-25202521
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Remote Sensing and
Geographic Information
System



Satellite Communications



Satellite Meteorology



Space and Atmospheric
Science



Global Navigation Satellite
Systems



Small Satellite Mission



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		Secretary
		Dr. A. Senthil Kumar Director, CSSTEAP, India

Governing Board Members and Special Invitees during 23rd Governing Board Meeting at Delhi on December 10, 2018

In response to the **UN General Assembly Resolution (45/72 of 11th December, 1990)** endorsing the recommendations of UNISPACE-82, the **United Nations Office of Outer Space Affairs (UN-OOSA)** prepared a project document (A/AC.105/534) envisaging the establishment of Centers for Space Science and Technology Education in the developing countries. In 1994, a UN team conducted an evaluation mission of six countries in Asia-Pacific region. Based on the report of the evaluation mission, UN-OOSA notified India as the host country for establishment of **Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP)**. The Centre was established in India on November 1, 1995 under an agreement signed initially by 10 member countries of the region. The Centre is hosted by the Government of India with Department of Space (DOS), as the nodal agency. DOS has made available appropriate facility and expertise to the Centre through the Indian Institute of Remote Sensing (IIRS), at Dehradun, Space Applications Centre (SAC), at Ahmedabad and Physical Research Laboratory (PRL), at Ahmedabad

To,
Dr. Kamal Jain
 Coordinator & Organising Secretary Professor,
 Department of Civil Engineering IIT Roorkee - 247667
 Roorkee, Uttarakhand, India

Subject: Acceptance for being an Academic Partner and Life Membership of Asian Society of Unmanned Systems and Sciences (ASUSS) UASG 2019 Conference at IIT Roorkee, Noida Campus

Dear Sir,
 With reference to the above subject, let me take this opportunity to thank you for inviting us to the 1st International Conference on Unmanned Aerial System in Geomatics 2019 in Association with ISPRS 6th & 7th April 2019 at IIT Roorkee Noida Campus and for being an Academic Partner and Life Membership of Asian Society of Unmanned Systems and Sciences (ASUSS).
 With great pleasure we accept the invitation and it will be great to attend the inaugural ceremony of your conference. Further we are very interested in the current state of unmanned aerial advances, and the roadmap to their full utilization in Geoinformatics, research opportunities, and to 'what comes next' in terms of the essential technologies that need to be utilized to advance the state-of-the-art

Hence, on behalf of Pilai HOC College of Engineering & Technology, Mr. Gurthik Nagarajan, Associate Professor, Civil Engineering Department and Network Coordinator of Pilai HOC Outreach Network Institute will be the delegate joining you for the Conference and we are looking forward to be apart of this wonderful event.

Ghantya
Principal
 PRINCIPAL
 PILAI HOC College of
 Engineering & Technology
 PILAI HOC EDUCATIONAL CAMPUS,
 RAAYANI, TAL. PANVEL,
 DIST. RAIGAD - 410 207.

Dear Sir/Mam,
 Subject: Invitation for being an academic partner of UASG 2019 Conference

I am pleased to inform you that we are organizing an International Conference on Unmanned Aerial System in Geomatics - 2019 (UASG-2019) on April 06th and 07th 2019 at IIT Roorkee Noida Campus. The two-day event aims at bringing together different groups of organization representatives, leading agencies, industry and academia, to discuss the current state of 'unmanned aerial advances, and the roadmap to their full utilization in Geoinformatics. Special emphasis will be given to research opportunities, and to 'what comes next' in terms of the essential technologies that need to be utilized to advance the state-of-the-art.

I would like to invite you to be our academic partner not only for the conference but also in the UAV society developed as a part of the conference. As an academic partner you will be entitled to get the following benefits:

- Participation in the UASG-2019 for a single representative of the institute without any registration fee (accommodation chargeable).
- Opportunity to advertise your institute's logo on any social media, advertising platform and the proceedings of the conference.
- Life membership of the 'Asian Society of Unmanned Systems and Sciences' (ASUSS) without any charges. This will avail all the benefits of life membership to institutes.
- Opportunity to participate in the regular meetings of the ASUSS society and also in the elections for various positions in the society.
- Get associated with ASUSS members for collaborative research opportunities on an open ground for different government projects.

For this year should send at least one representative from your institute and give us the consent to share your institute's logo. The logo will be displayed on our conference website and all advertising media. The institute will also be displayed as a life academic member of ASUSS UAV society an society website. I would really appreciate it if you decide to accept our proposal. Please, do not hesitate to contact me if you have any questions. Looking forward to hearing back from you.

Jain
Dr. Kamal Jain
 Professor

Coordinator & Organising Secretary
 Professor, Department of Civil Engineering
 IIT Roorkee - 247667, Roorkee, Uttarakhand, India
 Telephone: +91 9760 026 284 Fax: +91 1332 283465
 Web: www.iitr.ac.in/iasuss2019
 Email: www.iitr.ac.in

Date: 14th February, 2019

UASG-2019 Co-organized by **ISPRS**

1st International Conference on Unmanned Aerial System in Geomatics 2019
 April 06-07, Greater Noida Extension Center
 IIT Roorkee, UP, India

The aim of UASG 2019 is to bring together experts in photogrammetry and remote sensing, surveying, robotics, computer vision, artificial intelligence, aerospace engineering, geosciences and various UAS user communities. UASG 2019 is a great opportunity to learn about the most recent developments and to exchange views on the future directions of UAS in geomatics research, applications and services.

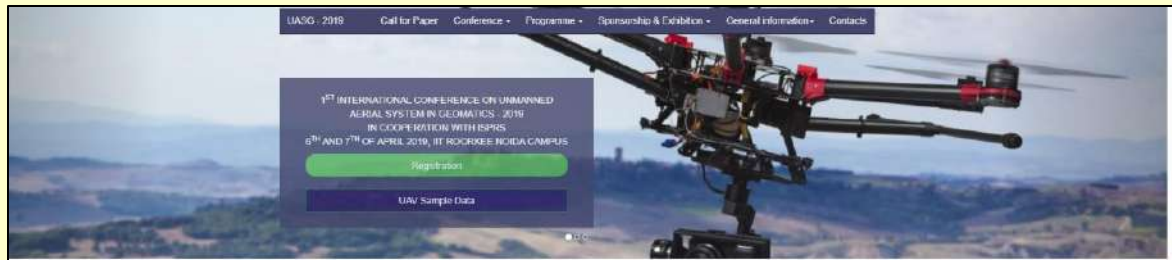
Researchers, developers, service and systems providers as well as users are invited to contribute with presentations, posters and discussions to create synergies between research and applications using UAS in Geomatics.

UAV Start-Ups and Market
 The unmanned drone industry is still young in India but has begun to see some considerable growth over the last few years. Many of the most active early commercial UAV startups are operating in India. UAV startups and their market to see Open, India & Collaborative platform for early stage startups cannot cover the entire market. The platform will provide a marketplace for the discovery of startups, investors and customers. Be part of the platform to see the latest developments in the industry. The platform will provide a marketplace for the discovery of startups, investors and customers. Be part of the platform to see the latest developments in the industry.

UAV Concepts and Innovations
 As UAV technology continues to evolve, researchers from different disciplines possessing new concepts for innovative airframe, stability and control systems, and innovative systems to drastically improve their business, increase efficiency and faster as well as users are invited to contribute with presentations, posters and discussions to create synergies between research and applications using UAS in Geomatics.

UAV Application and Practices
 The main objectives of UASG 2019 are:
 • To provide a platform for the researchers to present their work in form of the scientific community and update.
 • Providing the insights of innovative approaches as well as state of the art techniques and novel methodologies adopted in UAV sector.
 • To offer a stage to meet and interact with various novel researchers, experts, stakeholders, partners and colleagues of the same fields of research for an exchange of ideas and future collaborations.
 • To present academic, scientific and researchers with capacities and capacities working in the area of UAV technology and applications.

For Details: <http://www.iitr.ac.in/uasg2019/> Contact us: UASG2019@iitr.ac.in



List of Papers selected by Oral and Poster Presentation.
 Candidates who have registered for the conference may check their status here (Updated)
 UASG-2019 Technical Session I (UASG 2019 Program Schedule)
 All the selected papers will be published in ISPRS in Springer.

Welcome to
1st International Conference on Unmanned Aerial System in Geomatics - 2019





Dr. Priam Pillai
Chairman

*Chief Operating Officer,
Mahatma Education Society*



Dr. Madhumita Chatterjee
Jt. Secretary

*Principal
PHCET*



Mr. Karthik Nagarajan
Secretary



Mr. Raju Narwade
Treasure

INDIAN SOCIETY OF REMOTE SENSING (MUMBAI CHAPTER)

Mumbai Office

Pillai HOC College of Engineering and Technology
Raigad, Via Parvel, Rasayani, Taluka - Khalapur
Dist. Raigad, 410 207, Maharashtra, India
Phone: 02192 252065 / 250066
Website: www.phcet.ac.in

Main Office :

Indian Society of Remote Sensing
4-Kalidas Road,
Dehradun - 248 001, Uttarakhand ,India
Phone: 91-135-2524312
Website: www.isrs-india.org



Indian Society of Remote Sensing

Serving Humanity through Space Technology

Indian Society of Remote Sensing (ISRS) was established in 1969 with the main objective of advancement and dissemination of remote sensing technology in the fields of mapping, planning and management of natural resources and environment by organising seminars/symposia and by publishing a quarterly journal (JISRS), bulletins, proceedings, etc.

Starting with 56 members, the Society has now grown into a premier professional body with membership of over **5286** members. Currently, ISRS is a member of the International Society of Photogrammetry and Remote Sensing (ISPRS).

More Details

<https://www.isrs-india.org/>



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Mumbai	2019 - 21	162	Dr. Priam Pillai		Mr. Karthik Nagarajan	Dr. Madhumita Chatterjee	Mr. Raju Narwade	---







AICTE and ISTE Approved One Week Short Term Training Program

“Advances in Disaster Management and Risk Reduction : A Remote Sensing and GIS Approach ”



ISRS



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Chief Officer at Disaster Management Unit, MCGM



Dr. Arijit Roy

Scientist/Engineer-SF, IIRS , ISRO



Dr. P.K.Champati Ray

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Dr. Rajendrakumar Saraf

Formar Editor
Indian Water Works Association



Dr. Vikas N Kurne

Disaster Management Coordinator
Indian Red Cross, Maharashtra State Branch



Mr. Rajendra Lokhende

Brihanmumbai Municipal Corporation Officer

◆ Glimpse of STTP



PILLAI ISRO ACHIEVEMENTS



Left to right

Archana Lokhande (M.E CIVIL), Divyashree Yadav (M.E CIVIL),
Nivrutti Bhosale (M.E CIVIL), Shri Agendra Kumar (ESRI India Technologies),
Prof. Karthik Nagarajan, Rahul Nair (M.E CIVIL)



Left to right

Chirag Dhoble (Student Coordinator), Archana Lokhande(M.E Civil), Divyashree Yadav (M.E Civil),
Nivrutti Bhosale (M.E Civil), Prof. K.K Raina (Vice Chancellor, DIT University, Dehradun),
Prof. Karthik Nagarajan, Rahul Nair (M.E Civil)

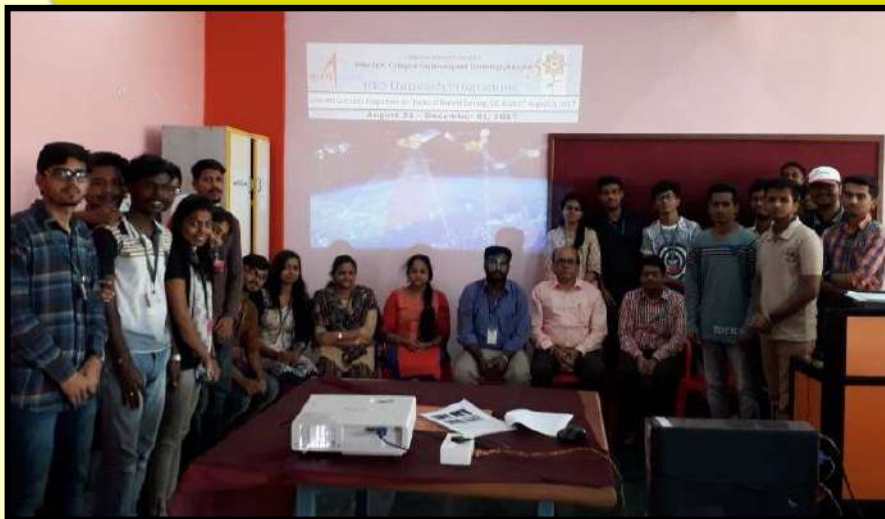
PILLAI ISRO ACHIEVEMENTS



PILLAI ISRO EXAM



22ND UAV Remote Sensing and Application & 25th Hyper spectral Remote Sensing & Applications





Former **ISRO Chairman Dr.A.S.Kiran Kumar** (2nd from Right) interacted with students / staffs of **Pillai 's College** of various Engineering streams at **VJTI , Matunga (Mumbai)** on **28th December 2018** . He interacted and inspired students to consider **SPACE SCIENCE** as a strong carrier and told them to dream BIG.

Dr.Kiran Kumar also interacted with **Prof.Karthik Nagarajan- ISRO IIRS Outreach Network Coordinator , PHCET** (Extreme Right) to conduct more courses on **Remote Sensing, GIS and Geospatial Technologies** in Pillai's Institute by which students will understand the importance of Space Science at **UG & PG Level**.

ISRO –Pillai's Outreach Network Institute

Till date , **20** Remote Sensing and GIS programme, **03** National workshops and **01** Short term training programme (in which various Scientist from ISRO interacted with our students) More than **3200 +** registration in the above said course and about **550+** students have been certified from ISRO through these outreach programme.



Edusat OutReach ONLINE Examinations





SPACEX

PILLAI ISRO ACTIVITIES



VJTI, ISRO EXHIBITION



MR ALUR SEELIN KIRAN KUMAR

Distinguished Scientist (Apex) and Director,
Space Applications Centre, Ahmedabad,
Space Commission and Chairman

DR. A.S. KIRAN KUMAR

PILLAI ISRO ACTIVITIES



PILLAI HOC COLLEGE OF ENGINEERING & TECHNOLOGY STUDENTS VISITED TO GMRT, PUNE ON 1ST MARCH 2019



PILLAI ISRO ACTIVITIES

Mahatma Education Society's
Pillai Group of Institutions

CHIEF GUEST



DR. PRAKASH CHAUHAN
 Deputy
 Indian Institute of Remote Sensing
 (ISRO) Dehradun

CHANDRAYAAN-1 MISSION Lead work done in Moon Mineralogical Mapper (M3) Instruments	CHANDRAYAAN-2 MISSION Principal Investigator for Infrared Imaging spectrometer (IIRS) Instrument on-board
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WINNER OF
 •Satish Dhawan Award
 •Dr. Vikram Sarabhai Research Award
 • Prof. P.R. Pisharoty Memorial Awards

05 FEB PILLAI COLLEGE, NEW PANVEL (MORNING)
06 FEB PILLAI CAMPUS, RASAYANI (AFTERNOON)


DRM SAMUDRAIAH
 Retd. Deputy Director
 Space Applications Centre
 (SAC), ISRO, Ahmedabad
 Branch



DR. PRAKASH CHAUHAN
 Director
 Indian Institute Of
 Remote Sensing
 (ISRO) Dehradun

Mahatma Education Society's
Pillai Group of Institutions

GUEST OF HONOR



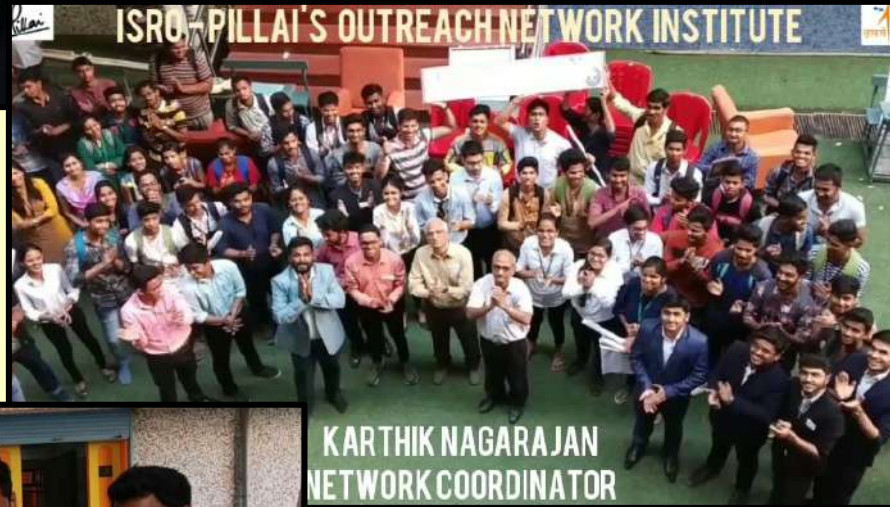
DRM SAMUDRAIAH
 Retd. Deputy Director
 Space Applications Centre (SAC),
 ISRO - Ahmedabad Branch

Contributions Remote Sensing of Earth, Moon and Mars.	Talk Understanding Space and Exploration - Role of Engineers and Scientists.
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AWARDED
 "ISRO Performance Excellence Award"
 Carrying out research at
 IIRS in Ocean Remote sensing.

05 FEB PILLAI COLLEGE, NEW PANVEL (MORNING)
06 FEB PILLAI HOC COLLEGE, RASAYANI (AFTERNOON)

PILLAI ISRO ACTIVITIES



PRAYOG 2019 at
Pillai HOC College Of
Engineering & Technology
On 28th Feb 2019



KARTHIK NAGARAJAN
NETWORK COORDINATOR



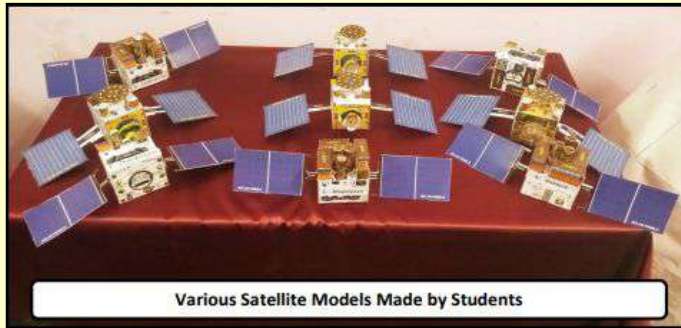
PILLAI ISRO ACTIVITIES



Exhibition of IIRS Outreach Centre
At Pillai College, Panvel



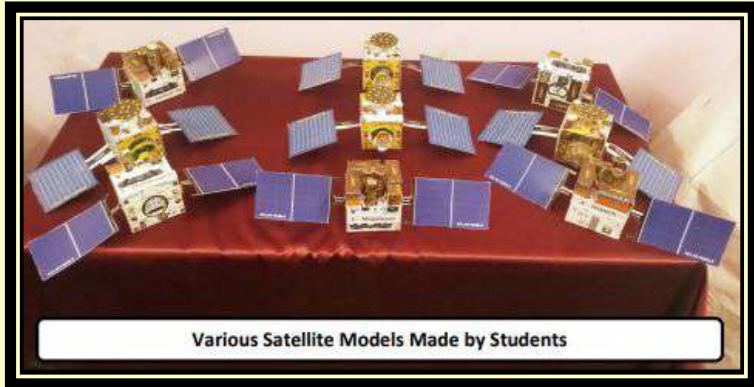
Satellite Making Contest



WORKSHOP _ Hands on Training on QGIS



Satellite Making Contest



LIVE WORKSHOP on GNSS



22ND UAV Remote Sensing and Applications

28th Close range Photo & Terrestrial laser Scanning



Student Coordinator Mr.Chirag D. registering the participants



Participants attending the 28th Course Examination



Students and the faculties on the occasion of 28th course



Participants doing the last minute preparation before ONLINE Exam



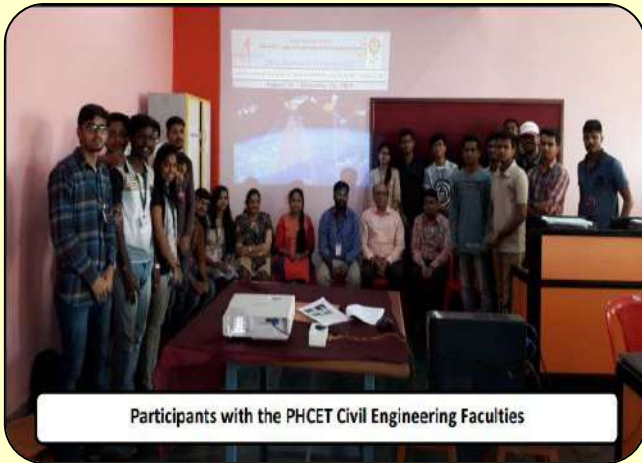
Student and the faculty giving the exam



Students lined up for registration and document verification

23rd Basics of RS, GIS & GNSS

24th Remote Sensing and Digital Image Analysis



Participants with the PHCET Civil Engineering Faculties



Principal Dr. Chelpa Lingam, Dean Dr. Shrikant Charhate,
Faculties of PHCET with Participants



Civil Engineering Faculty attending the examination



Participants, Student Coordinators and Faculty, all in one frame

25th Hyper spectral Remote Sensing & Applications

26th GIS and GNSS



Prof. Karthik N. inspecting the Registration Process



Participant presenting his documentation to the registration desk



Enthusiasm at its peak, just before starting of the session



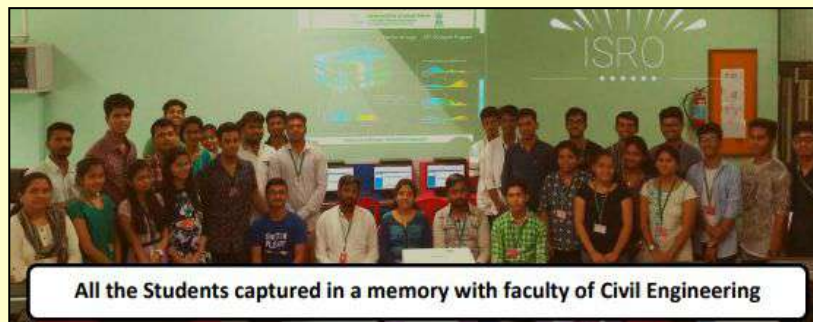
Participants testing themselves at their best



Faculties sharing the platform with student coordinators on the occasion



Prof. Karthik Nagarajan-IIRS EDUSAT Network Coordinator

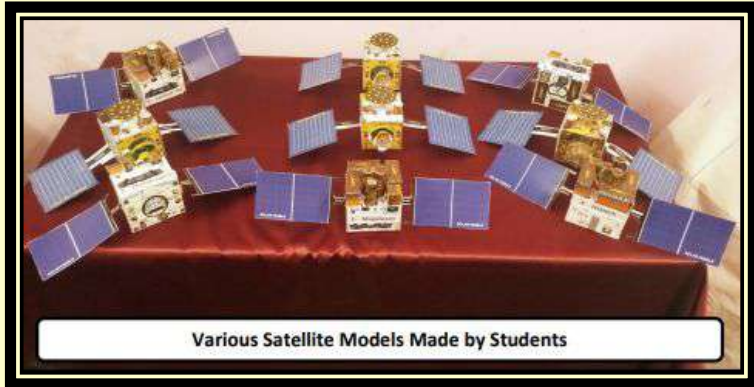


All the Students captured in a memory with faculty of Civil Engineering

WORKSHOP _ Hands on Training on QGIS



Satellite Making Contest



Various Satellite Models Made by Students



LIVE WORKSHOP on GNSS

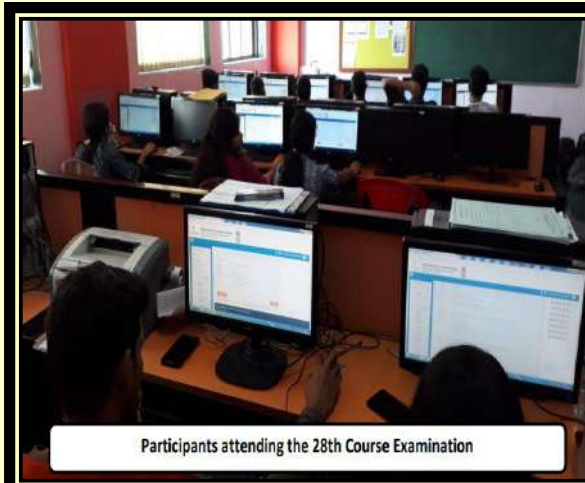


22ND UAV Remote Sensing and Applications

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GPS Instrumental Exhibition



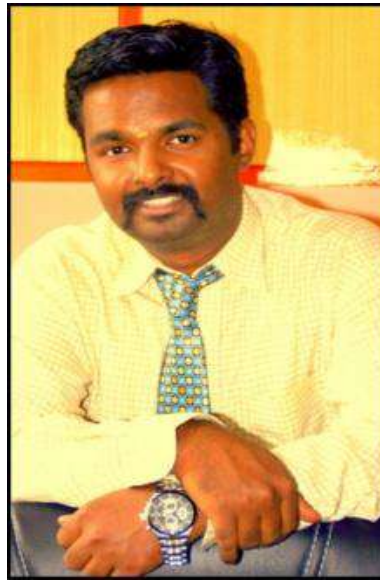
**(UG) 8 BE Civil Engineering presented a technical papers of their BE Thesis at
CONFERENCE ON TECHNOLOGIES FOR FUTURE CITIES
8th-9th January, 2019 at Pillai College of Engineering , Panvel**



Mr. Akshay Chavan



Mr. Manav Dodiya



Prof. Karthik Nagarajan



Mr. Rahul Hazarika



Mr. Raunak Upadhyay



Mr. Sagar Davate



Mr. Sameer Prajapati



Ms. Sayali Joshi



Mr. Tarandeep Singh

TITLE

TITLE

*Sustainable Water Harvesting Technique By
Condensation Of Water Through Atmosphere
In An Optimized Approach For Future Cities In India*

**(Guide)
Associate Professor
Civil Engineering Department ,PHCET**

*"A sustainable smart technique for generating
water from atmosphere for future cities
-A thermal electric cooling approach"*

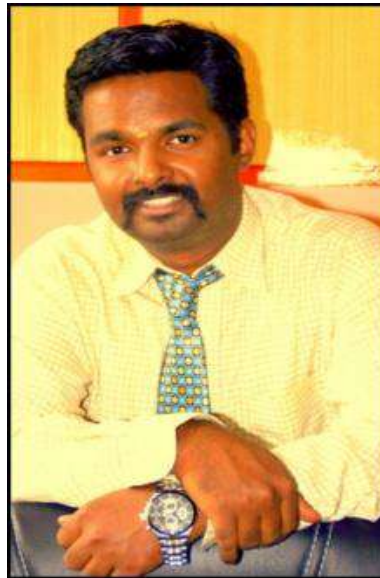




Ms. Reshma Bharat Kamble

TITLE

“Water Distribution Network Analysis For A Rural Village Near Rasayani With Application of Hydraulic Software – A Geographic Information System (GIS) Approach”



Prof. Karthik Nagarajan (Guide)
 Associate Professor
 Civil Engineering Department , PHCET



Ms. Chhaya Zende

TITLE

“Manufacturing Techniques of Sustainable Recyclable Formwork by a Smart Material Waste Composite Material (WCM) for Infrastructural Projects of Future Cities - A Swachh Bharat Abhiyan Initiative”





Pillai HOC College of Engineering and Technology , Rasayani

4 (PG) and 8 (UG) : Civil Engineering Department

Poster Presentation at **Avishkar 2018-19** : Guide : Prof.Karthik Nagarajan

23rd December 2018 at Pillai Ramrao Adik College of Engineering , Panvel

Pillai

4 UG students : ME Civil Engineering



Reshma Kamble



Chhaya Zende



Pallavi Patil



Sanika Kandalekar

8 PG students : BE Civil Engineering



Akshay Chavan



Manav Dodiya



Rahul Hazarika



Raunak Upadhyay



Sagar Davate



Sameer Prajapati



Sayali Joshi



Tarandeep Singh





Pillai HOC College of Engineering and Technology , Rasayani



RCPM YOUNG SOCIAL INNOVATOR AWARDS – 2018-19
In association with Panvel Municipal Corporation



Akshay



Manav



Sagar



Sameer



Rahul



Raunak



Sayali



Tarandeep

Civil Engineering Department

(UG) 8 BE Civil were appreciated for 2 technical papers
Date : 17TH Feb 2019 Venue : Phadke Auditorium , Panvel

TITLE-1

*Sustainable Water Harvesting Technique By
Condensation Of Water Through Atmosphere
In An Optimized Approach For Future Cities In India*

TITLE -2

*"A sustainable smart technique for generating water from
atmosphere for future cities -A thermal electric cooling approach"*



Rtn.CA Shrikant Limaye
Youth Director ,Rotary Club
Rahul Hazarika & Mr.Karthik Nagarajan

Prof.Karthik Nagarajan
(Guide)
Associate Professor



Rtn.Yogeeta Deshmukh & Ann.Minal Dhumal
Project Chairman ,Rotary Club
Mr.Karthik Nagarajan & Rahul Hazarika