ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

About the Department

Department of Information Science and Engineering was established in the year 2008 with an intake of 60 for the undergraduate program. The department has well qualified, experienced and committed faculty to provide quality industry tuned education to the students. Department has well equipped laboratories housing state of the art equipments including computer systems with latest configurations, which are completely networked and latest software's for applications and development areas. The Department carries out various Industry-Institute interaction events for the benefit of the students and faculty. The Department conducts various technical Seminars/hands-on session Workshops/Certification programs and Hackathons for students to enhance their skill and to bridge the gap between curriculum and industrial requirements. Department organizes various placement activities for students to enrich their coding skill and professional behavior. With an objective of developing core competence in the respective subject specializations and for learning new technologies, the Department has formed the various Technical divisions. We are committed to developing passionate, committed, ambitious and focused efforts on students to bring about the best in them.

Vision & Mission

VISION

To Impart quality learning and nurture students to become successful technocrats by achieving excellence in information science and engineering field for addressing the evolving needs of the industry as well as the society.

MISSION

- ✦M1: To provide quality technical education and research training for preparing competent professionals in the Information technology field.
- ✦M2: To provide a suitable infrastructure and environment that inculcates the best engineering practices for the Socio-economic development of society.
- ✦M3: To foster the students to become successful technocrats to meet the global competency in the field of IT industry.
- ✦M4: To develop entrepreneurship skills with active research and innovation by inculcating ethical values among students.

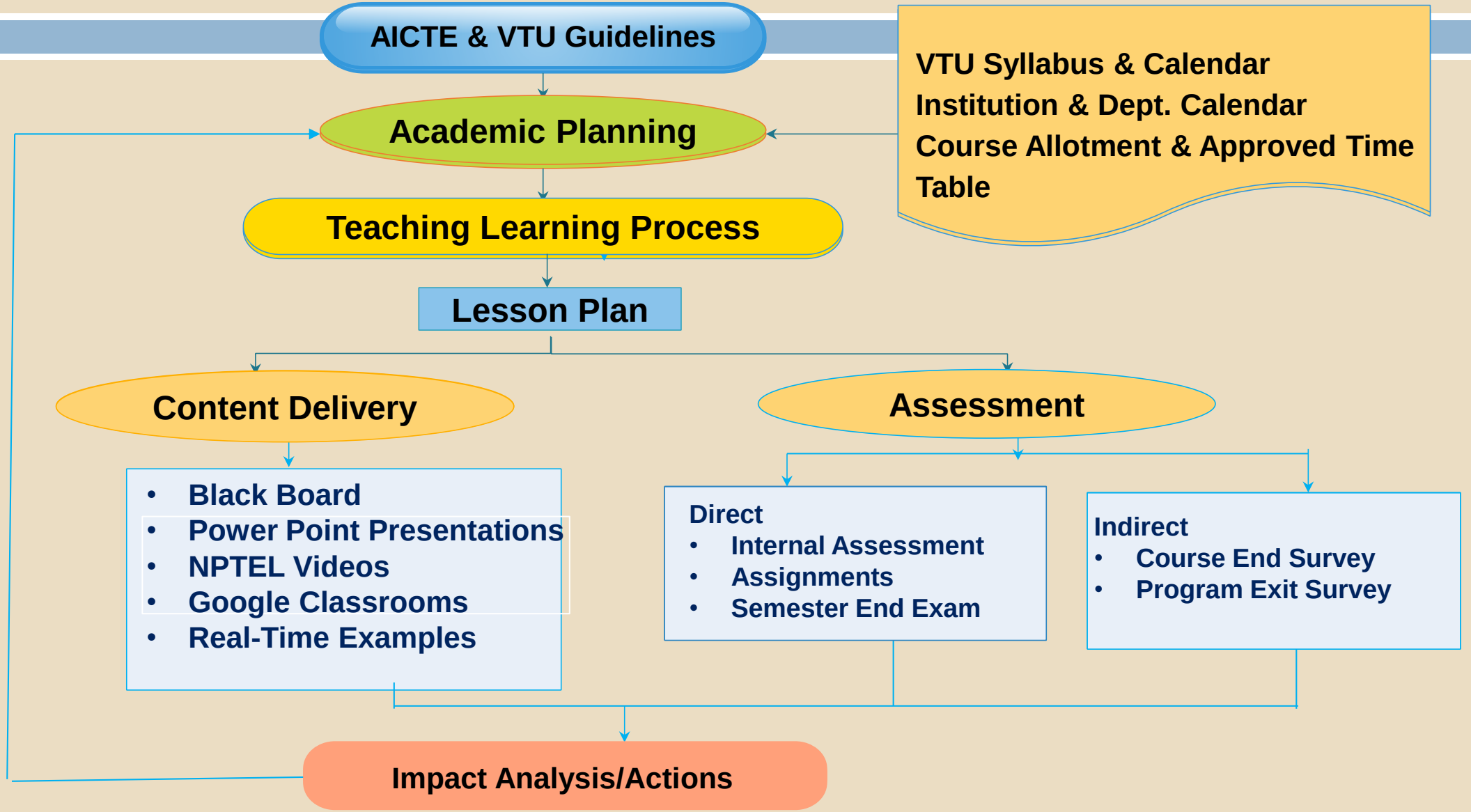
Program Educational Objectives (PEOs)

- **PEO1**: Apply the principles of fundamental mathematics and Information Science & engineering to provide solutions to the real time problems.
- **PEO2**: Pursue higher education and engage in research to meet the challenges of the latest technologies.
- **PEO3**: Design and develop reliable software systems to satisfy the industrial needs through multidisciplinary projects.
- **PEO4**: Able to work in various IT related fields and contribute to the society.

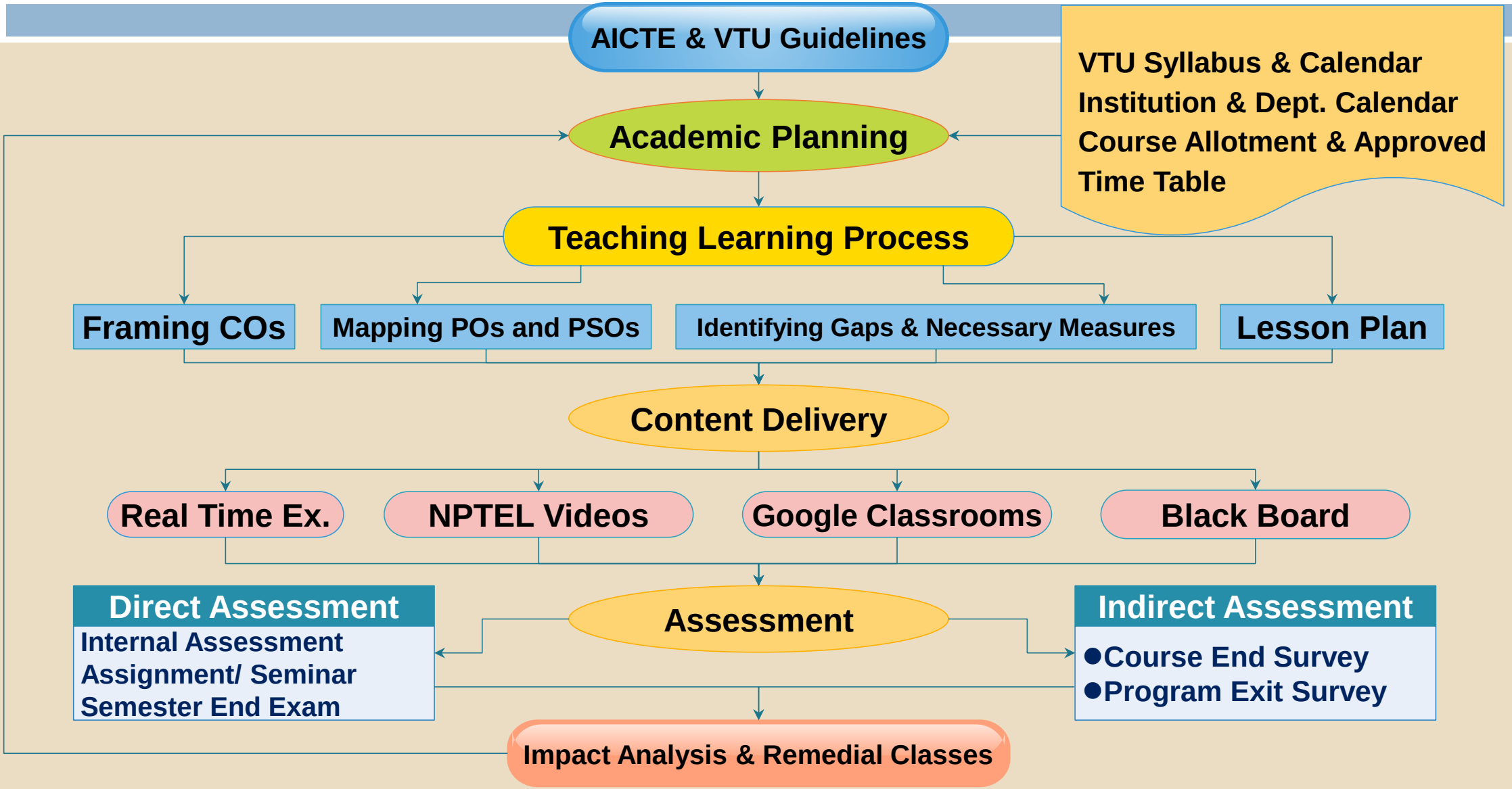
Program Specific Outcomes (PSOs)

- **PSO1**: Apply the knowledge of computer networking, database and computations to provide the solutions to the real-world engineering problems.
- **PSO2**: Design, develop, test and maintain the software systems that satisfy the needs of the IT industry.
- **PSO3**: Develop programs and projects using modern software tools for industrial & scientific applications.

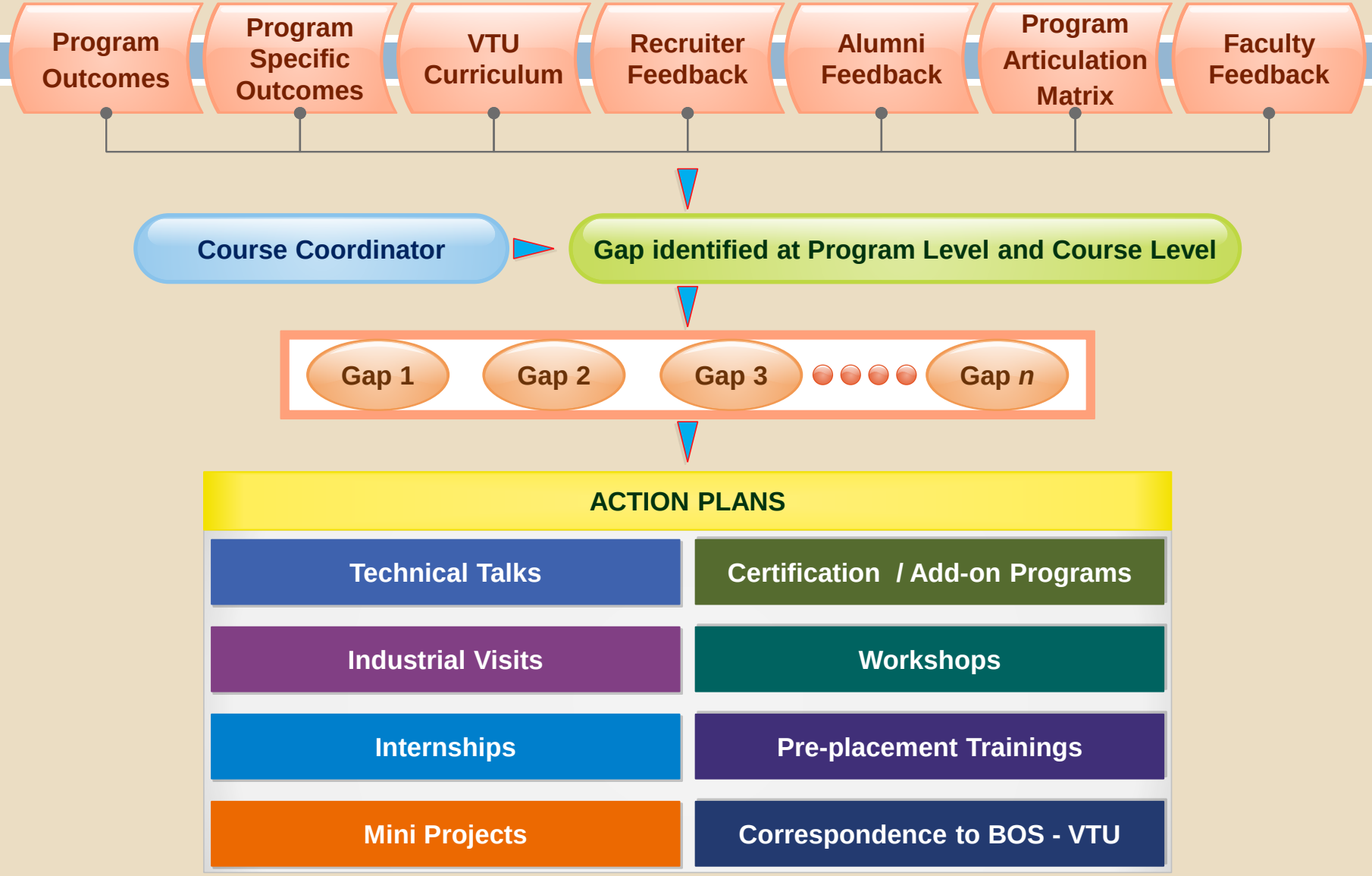
Teaching Learning Process



Teaching Learning Process



Process to Identify the Curriculum Gaps



Action Plans Executed for Curriculum Gaps

Technical Talks

- Experts from Industry, Academia and Research Organizations
- IIITs, ISRO, NITKs, HCL, Infosys, Amazon etc.

Mini Projects

- Application Developments using DBMS
- Web Technologies & Applications
- Mobile Application Developments using Android/iOS

Industrial Visits

- ISRO HQ Bengaluru (2 Visits)
- WIPRO Limited, Cochin
- Hindustan Aeronautic Limited(HAL), Bengaluru (2 Visits)
- INFOSYS Global Campus, Mysuru
- Udupi Power Corporation Limited(UPCL), Udupi
- Kaiga Nuclear Plant, Karwar

Action Plans Executed for Curriculum Gaps

Technical Talk on Machine Learning

Technical Talk on Industrial Automation

Action Plans Executed for Curriculum Gaps

Industrial Visit to HAL, Bengaluru

Industrial Visit to Kaiga Nuclear Plant, Karwar

Action Plans Executed for Curriculum Gaps

Industrial Visit to Wipro Ltd., Kochin

Action Plans Executed for Curriculum Gaps

Technical Talk on IoT

Internship @ IIIT, Allahabad

Action Plans Executed for Curriculum Gaps

Workshops / SDPs

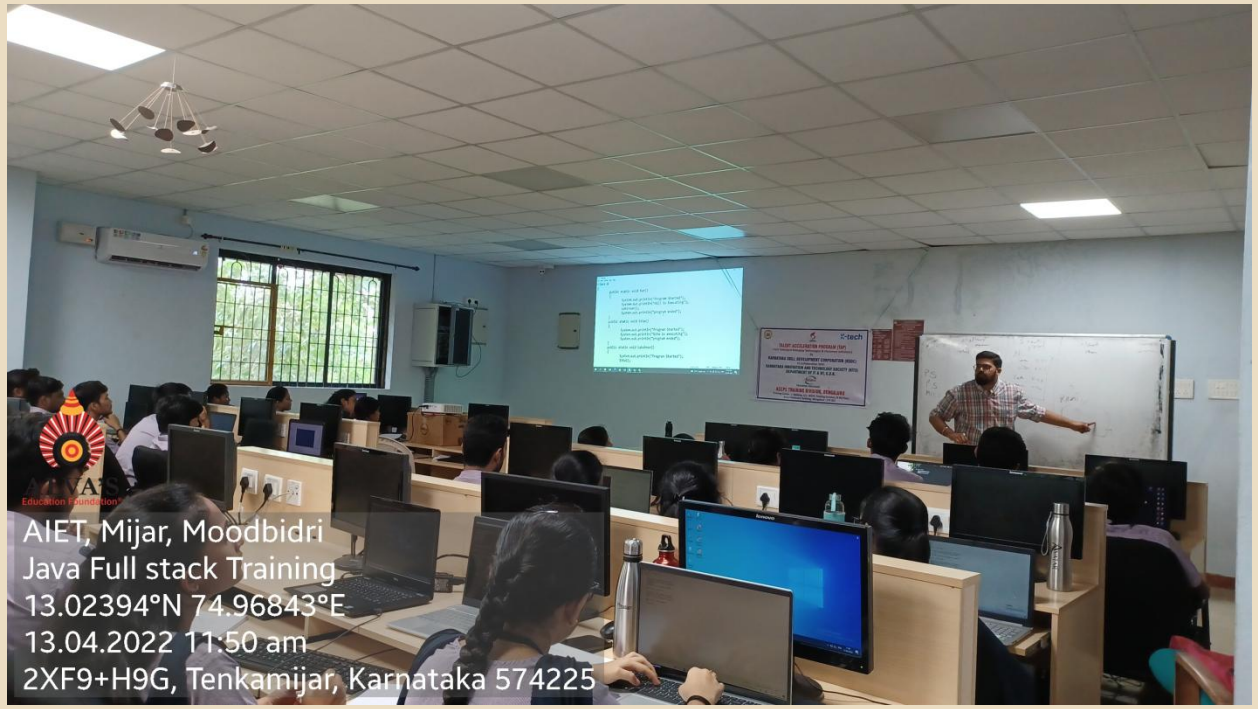
- Android Application Development
- Nanotechnology and it's Applications
- Machine Learning
- ReactJS
- Probability and Statistics for Data Science
- How to be a Freelance Web Developer
- Introduction to Devops and Data Engineering in Big data
- Coding Skills
- HTML, PHP and DATABASE
- Data Analytics with Spark

Action Plans Executed for Curriculum Gaps

Pre-Placement Trainings

- Advanced Java, Angular JS
- Web Development using HTML, CSS and PHP with Mini-project
- Software Testing and Automation
- Java Full Stack Development
- Python Full stack Development
- Database Management using SQL
- IoT and It's Applications
- Data Structures and Algorithms using C

Action Plans Executed for Curriculum Gaps



Training on Java Full Stack

Training on Web Development

Action Plans Executed for Curriculum Gaps

Glimpses of Certification / Add-on Programs

Advanced & Slow Learners

Slow learners

- Additional coaching classes / tutorials are conducted to improve the performance
- Weak students are attached to bright students in collaborative learning
- Mentoring / counseling weak students
- Parents' Interaction
- Forum Member

Advanced learners

- Encouraged to participate in paper presentations, technical contests, project exhibitions, as a group leader for collaborative activity
- Class Representatives
- Forum Coordinators

VGST Funded Project

Funding Project Received to the Department

- Department received funding project from VGST, Government of Karnataka, worth of Rs **5 Lakhs** under the guidance of **Dr. Roopalakshmi R** , for the title "***Detection of Artificially Ripened Fruits using Spectrometric Techniques"***.

Academic Collaborations / MoUs

Government of India
National Remote Sensing Centre
Indian Space Research Organisation
ISO 9001:2015

NARL

Indian Institute of Information Technology (IIIT), Allahabad

iON
TATA CONSULTANCY SERVICES

UiPath™

ORACLE ACADEMY

OSCKI LABS

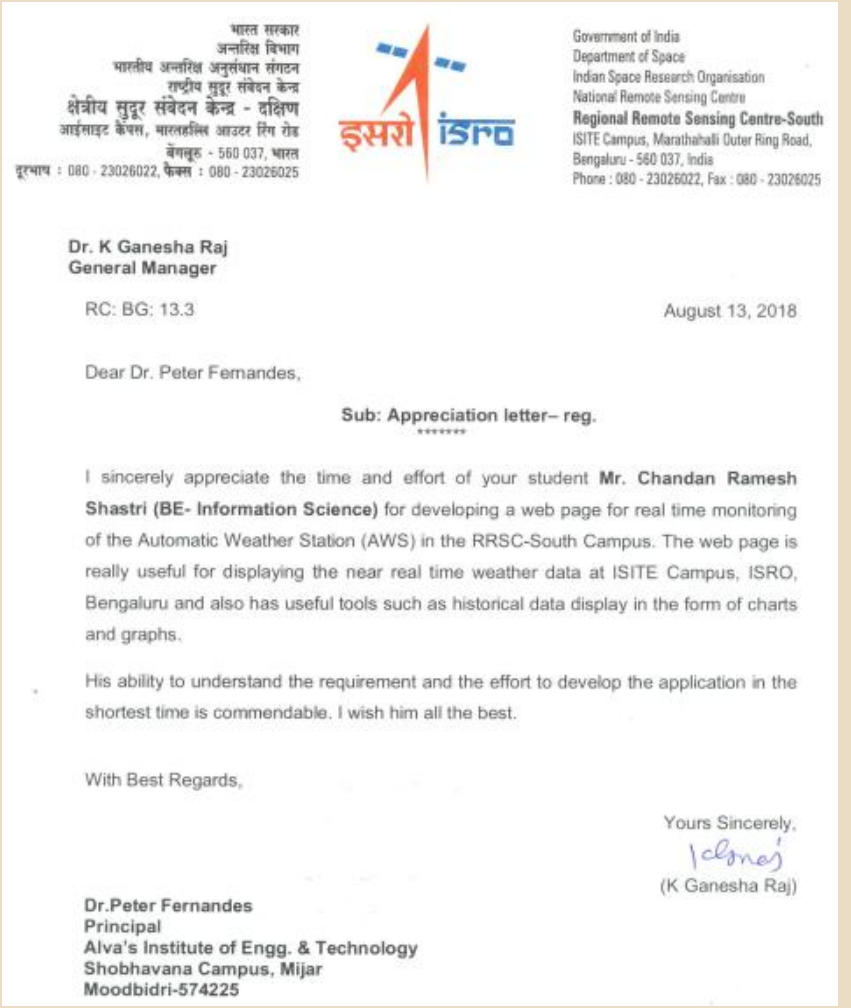
vmware

DLithe
Be Agile..Be in Demand

CalibreCode

Project Carried out at ISRO-RRSC

Mr. Chandan Shastri (Student of 2015-19 Batch) received an Appreciation Letter from ISRO, Bengaluru, for developing an application for real time monitoring of the Automatic Weather Station (AWS) in RRSC South Campus.



भारत सरकार
अन्तरिक्ष विभाग
भारतीय अन्तरिक्ष अनुसंधान संगठन
राष्ट्रीय सुदूर संवेदन केन्द्र
क्षेत्रीय सुदूर संवेदन केन्द्र - दक्षिण
आईसाइट कैंपस, मारतहल्लि आउटर रिंग रोड
बेंगलुरु - 560 037, भारत
दूरभाष : 080 - 23026022, फैक्स : 080 - 23026025

इसरो ISRO

Government of India
Department of Space
Indian Space Research Organisation
National Remote Sensing Centre
Regional Remote Sensing Centre-South
ISITE Campus, Marathahalli Outer Ring Road,
Bengaluru - 560 037, India
Phone : 080 - 23026022, Fax : 080 - 23026025

Dr. K Ganesha Raj
General Manager

RC: BG: 13.3 August 13, 2018

Dear Dr. Peter Fernandes,

Sub: Appreciation letter– reg.

I sincerely appreciate the time and effort of your student **Mr. Chandan Ramesh Shastri (BE- Information Science)** for developing a web page for real time monitoring of the Automatic Weather Station (AWS) in the RRSC-South Campus. The web page is really useful for displaying the near real time weather data at ISITE Campus, ISRO, Bengaluru and also has useful tools such as historical data display in the form of charts and graphs.

His ability to understand the requirement and the effort to develop the application in the shortest time is commendable. I wish him all the best.

With Best Regards,

Yours Sincerely,
(K Ganesha Raj)

Dr.Peter Fernandes
Principal
Alva's Institute of Engg. & Technology
Shobhavana Campus, Mijar
Moodbidri-574225

Professional Societies / Labs / Clubs

Chirpp – Bird Watch Club	ISTE	Apple iOS Lab	Speakers Club
Student Forum	Edwin's Linux Lab	Industry Oriented Lab	Srishti - Natures Club

Professional Societies / Labs / Clubs

Glimpses of Activities of Rostrum Club

Professional Societies / Labs / Clubs

Glimpses of Activities of Chirpp – Bird Watch Club

Professional Societies / Labs / Clubs

Glimpses of Activities of Linux Lab, iOS Lab & Algoris Club

Professional Societies / Labs / Clubs

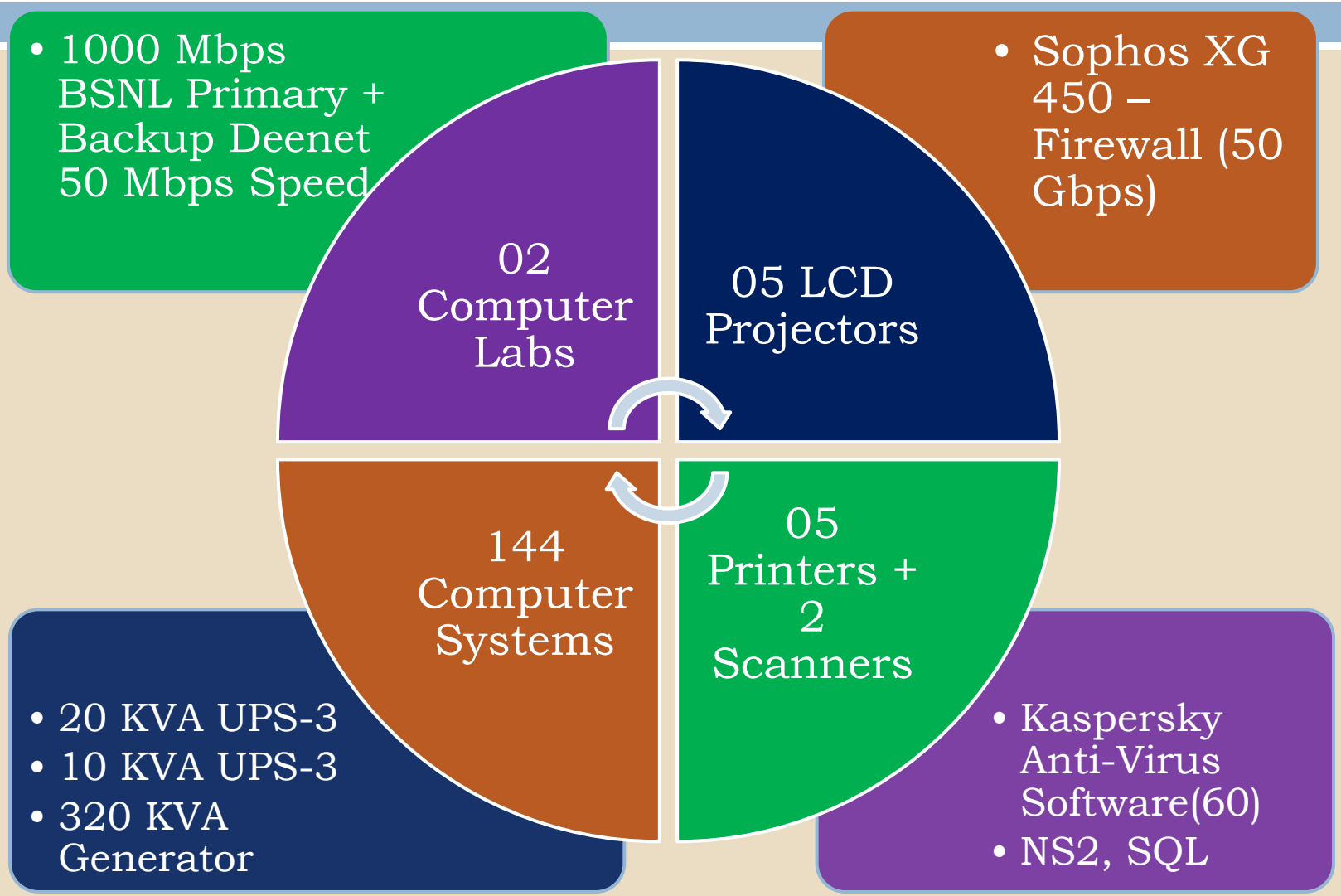
of Infor

Glimpses of Forum (TechGeekz) Activities

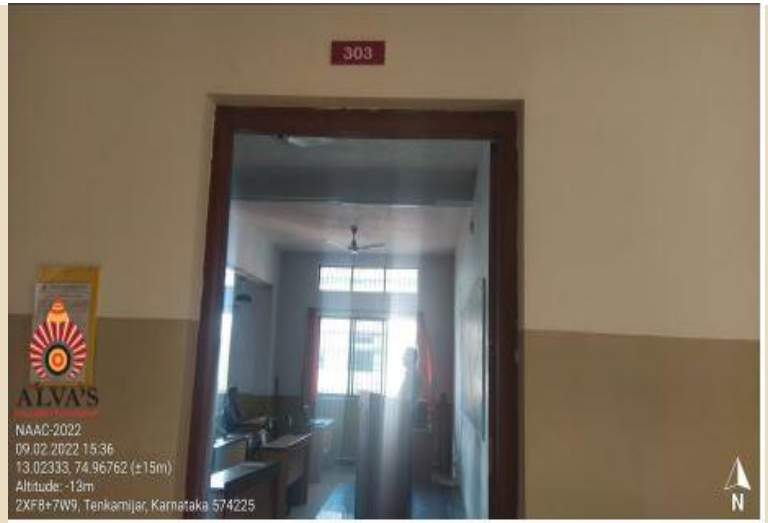
Department Achievements

- Received VGST funding of Rupees 5.0 Lakhs.
- 6 student Projects are funded by KSCST
- Two student projects were funded by VTU
- A student project was selected for KSCST state level exhibition
- More than 165 students paper were published in International conferences and Journals
- A student developed an application for real time monitoring of the Automatic Weather Station (AWS) in ISRO-RRSC, Bengaluru, South Campus
- A faculty received NPTEL Gold + Topper certificate

Infrastructure & Learning Resources



Infrastructural Facilities



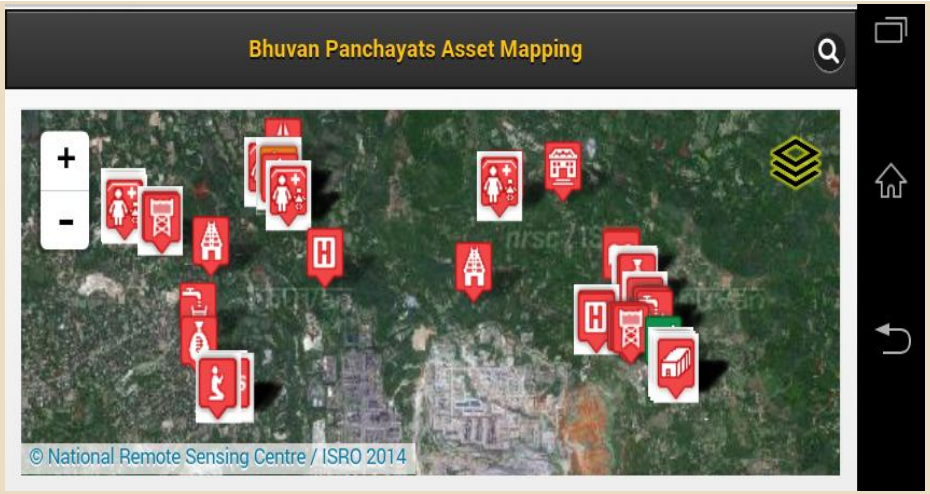
ALVA'S
Education Foundation®

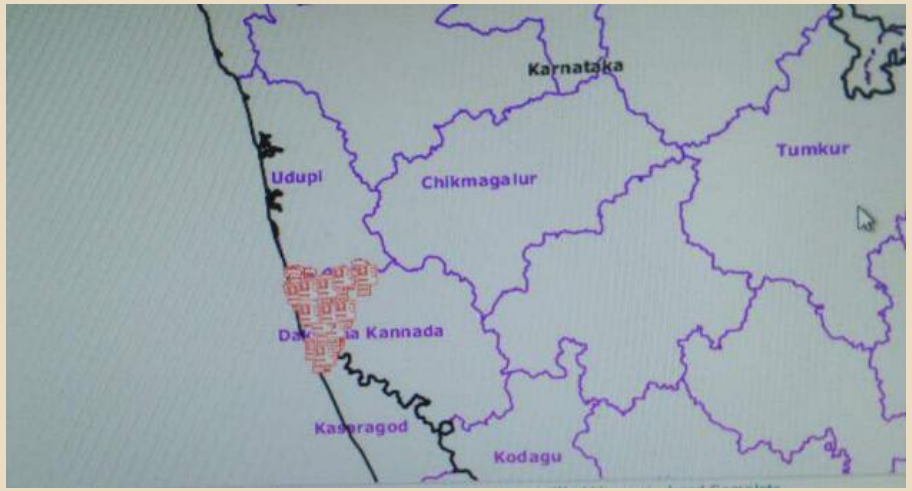
Major Recruiters

Social Connect Programs

- ISRO- Bhuvan Panchayat Asset Mapping
- ISRO-NavIC Project
- SWACHH BHARATH- Swachh Mijar
- Alva’s PRAGATI – Mega Open Placement drive
- Women’s Self Defence

ISRO-Bhuvan Panchayats Asset Mapping- Mangalore Taluk in Collaboration with ISRO -NRSC





AIET students, faculty map 5,000 assets in M'luru taluk

TIMES NEWS NETWORK

Mangaluru: A tripartite agreement involving NRSC-Isro, Dakshina Kannada Zilla Panchayat and Alva's Institute of Engineering and Technology (AIET) has seen students of AIET carry out asset mapping of 5,000 assets in Mangaluru taluk. The effort saw 55 faculty and 330 students undertake the mapping work in 25 days after AIET team trained gram panchayat members in 55 GPs in the taluk and panchayat development officers (PDOs) helped them in the endeavour.

With M R Ravi, chief executive officer of DK ZP, responding positively to the proposal from AIET, National Remote Sensing Centre was held on May 3 and 4.

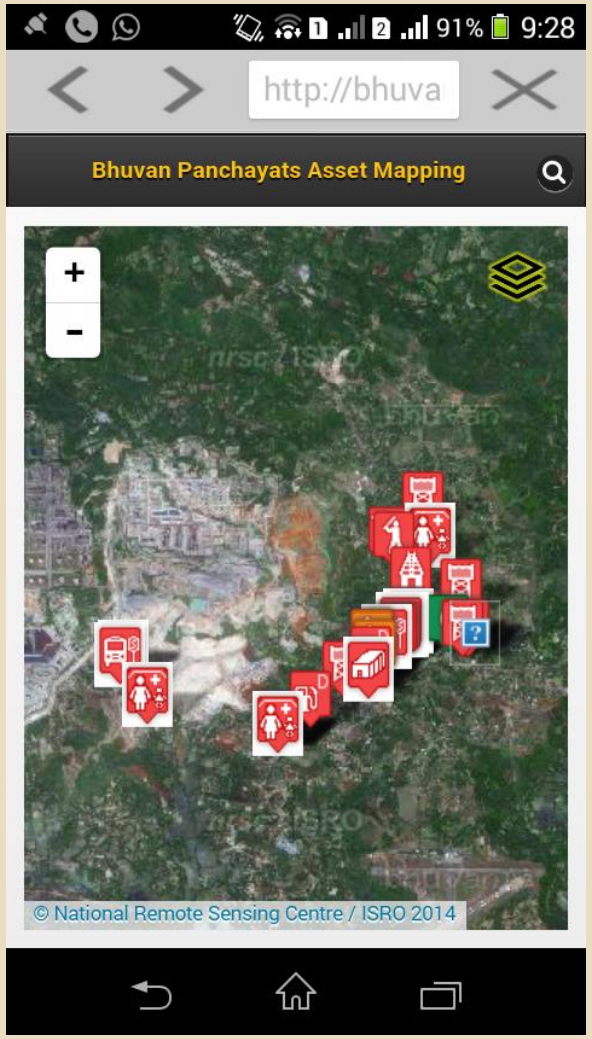
Vivek Alva, managing trustee, Alva's Education Foundation, who handed over the asset mapping report of the taluk to Ravi on Saturday, said that the work was an exercise to expose students to rural India and problems people face in urban areas. Noting that he had personally visited some of the gram panchayats where the asset mapping was going on, Ravi said that the report will help planners like him refix their priorities and work towards filling the critical gaps in local infrastructure. "The report helps the administrators draw critical inferences which can help people at large," he claimed.

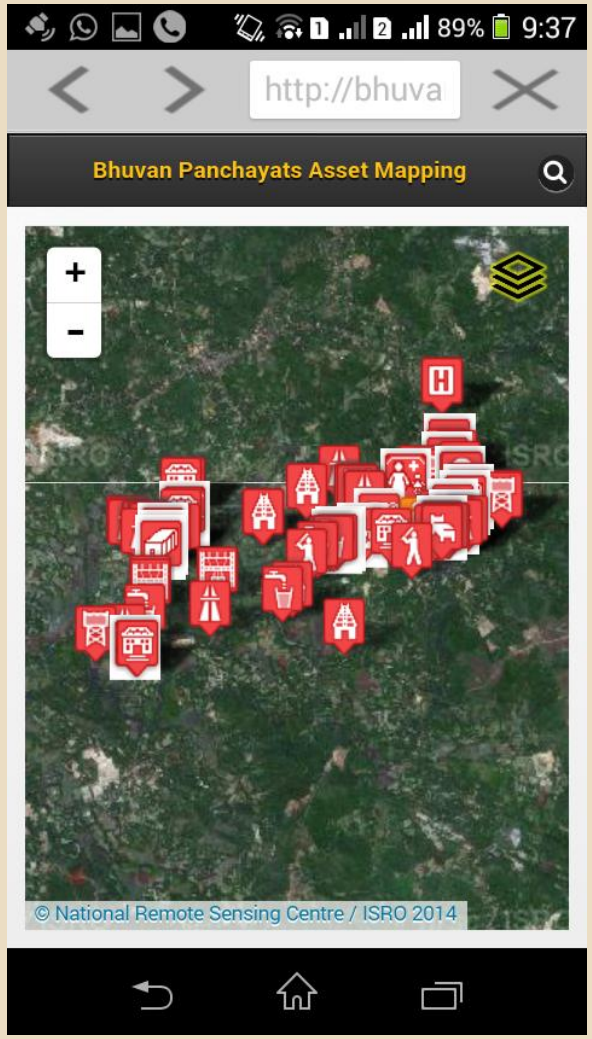
Referring to one such inference, he said that the mapping has identified presence of 34 churches, 131 mosques and 374 temples in the taluk. "This is an indica-

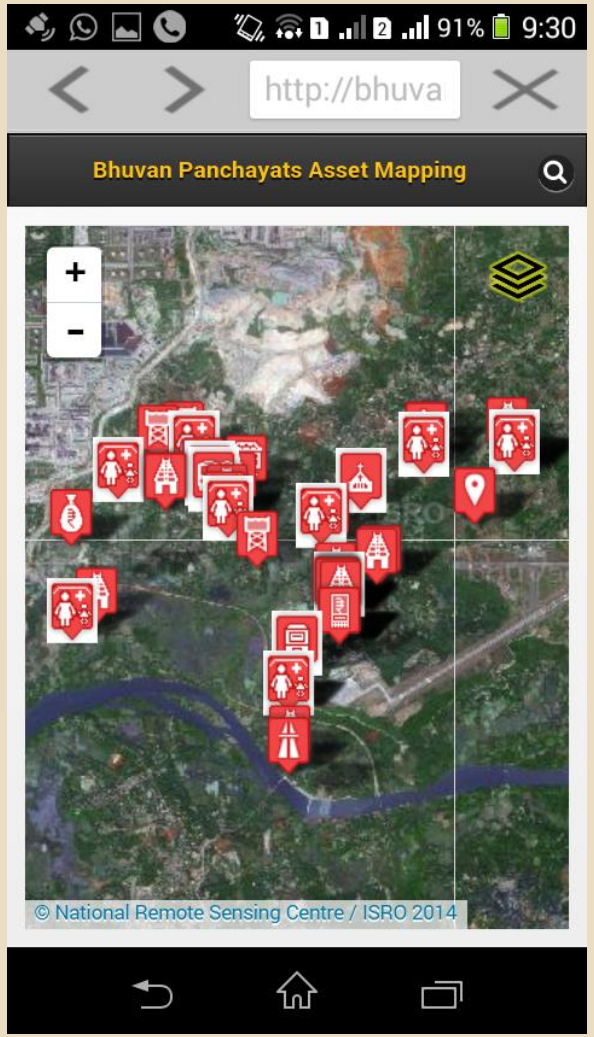
Jaideep Shenoy

ASSET MAPPING: Vivek Alva, managing trustee, AEF (right), hands over a report of asset mapping to M R Ravi, CEO of DK ZP, in Mangaluru

ISRO-Bhuvan Panchayats Asset Mapping - Mangalore Taluk in Collaboration with ISRO - NRSC







ISRO-NavIC Project – Orientation Programme – I at Gangolli , Udupi

- **Dr. P.G. Diwakar, EDPO, ISRO** addressing the Fishermen to educate them about the working and usage of the ISRO NavIC kit and App.
- Survey with fishermen about existing GPS based devices.

ISRO-NavIC Project – Orientation Programme – II at Malpe , Udupi

SWACHH BHARATH - Swachh Mijar

Alva's PRAGATI – Mega Open Placement Drive

Women's Self Defense

Trainer :

Ms. Ankita Bane

International Boxer and Karate Player, Mumbai.

Distinguished Alumni

Mr. Shreyas Shetty
Lieutenant Commander
2012-16 Batch

Chandan Shastri
DevOps Engineer, TCS
2015-19 Batch

Mr. Vighnesh
Software Developer, IBM India
2015-19 Batch

Mr. Raviraj Bhat
Sr. S/w Engineer, Swiss Re
2008-12 Batch

Mr. Naorem Bijen Singh
Consultant Developer, Capgemini
2010-14 Batch

Mr. AdikeshavMurthy M
RPA Consultant, EY LLP
2014-18 Batch

Ms Mandara Mulgund
Asst. Manager, Deloitte
2013-17 Batch

Ms. Fareena Aliya
S/w Engineer, Cerner Healthcare
2013-17 Batch

Departmental Extension Activities

- *To create awareness amongst the farmers on the available technologies*
- *Honoring those who have achieved significant success in the field of agriculture*

- *To create awareness for the students to understand the gross root level of the agricultural sector*

Life@ISE

ALVA'S FILM FEST

A Charitable fund raising event

- *To raise fund for charitable cause by means of entertainment*

- *Amount collected is donated to CRPF fund, Kannada Bhavana, Moodbidri.*

Life@ISE

E-Shikshana

A Rural Education Camp

Life@ISE

Certificate of Recognition

Certificate Number: MGNCRE/July/2021/BC/EORO/LT/I/34/56

This is to recognize that Alva's Institute of Engineering and Technology, Moodbidri, D.K, Karnataka, is now a Recognized Beat Covid Campaign Institution. The Institution has participated in Each One Reach One Covid Mission in July 2021 and constituted four student volunteer teams in the areas of Hospital Management, Non Hospital Management, Psychosocial support to Covid patients and their family members and other services. Faculty members and students contributed their valuable services during the covid pandemic. Each One Reach One Covid Mission is a part of Beat Covid Campaign initiated by Mahatma Gandhi National Council of Rural Education.

Dr. W G Prasanna Kumar
Chairman

Mahatma Gandhi National Council of Rural Education
Department of Higher Education, Ministry of Education
Government of India

Each One Reach One COVID Mission

A Beat COVID Campaign

Thank You

Department of Information Science & Engineering

Alva's Institute of Engineering & Technology