APSAC is involved in reconstructing a workforce armed with latest geospatial knowledge to meet the ever increasing demand of geospatial industry in the State and to provide an intensive educational opportunity designed to equip students for either a career in the geographical information industry or for further research. APSAC has entered Memorandum of Understanding (MoU) with various knowledge resource centers for exchanging of knowledge, technology, collaborative research areas, and organizing joint conferences & workshops.

THRUSTR AREAS
Agriculture, Irrigation, Ground water, Soils, Watershed development, Disaster Management, Weather forecast, Microwave remote sensing, hyper spectral remote sensing, GPR, LIDAR, Drone, BHUVAN

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Research Scholars & Students
Department of Geology

REGISTRATION FORM
National Workshop on Geospatial Technology for Development of Andhra Pradesh, 20th February, 2019

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Institution: ..............................................................
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REGISTRATION FEE

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Organized By
DEPARTMENT OF GEOLOGY
ACHARYA NAGARJUNA UNIVERSITY
&
A.P. SPACE APPLICATIONS CENTRE (APSAC)
ITE & C Department, Govt. of A.P.

Venue
Prof. L. Venugopal Reddy Seminar Hall
Dr.H.H. Deichmann &
Dr.S.John David Auditorium
Acharya Nagarjuna University Campus
BACKGROUND THEME

Indian Space Technology is one of the best in the world and has acquired global acclaim. Indian Space capabilities are now catering to international customers and are offering space-based data in a range of spectral bands, spatial resolutions and swaths. The data used for several applications covering agriculture, water resources, urban development, mineral prospecting, environment, forestry, drought and flood forecasting and ocean resources.

As the geospatial technology continues to grow in importance, there is a need in keeping the professionals and users across the country connected and educated. Remote sensing based thematic mosaics has successfully brought out the utility and benefits of the geospatial technology for application sectors like agriculture, mining, water management, energy, forest management, city governance, weather services and land management. Robust and sustainable geospatial infrastructure and accessibility to all will improve lives and increase productivity.

Only few government institutions running courses related to geospatial technology in Andhra Pradesh. The existing curriculum in these colleges also has to be revised as per the need of the hour. It is essential to introduce new technologies like hyper spectral remote sensing, microwave remote sensing, mobile applications, web applications, ground penetrating radar surveys, Ladar surveys, 3D surveys, GPS surveys, drones etc. in the course curriculum.

It is the need of the hour to introduce certain electives related to space technology in universities and engineering colleges in Andhra Pradesh.

ABOUT ACHARYA NAGARJUNA UNIVERSITY

Acharya Nagarjuna University, a state university, established in 1976 has been constantly striving towards achieving progress and expansion during its existence for over three decades, in terms of introducing new courses in constituent University Colleges, affiliated UG and PG colleges and Professional colleges. Spread over about 300 acres of land on the National High Way (NH-5) between Vijayawada and Guntur of Andhra Pradesh, the University is one of the fastest expanding Universities in the state of Andhra Pradesh.

It is named after Acharya Nagarjuna – one of the most brilliant preceptors, whose depth of thought, clarity of perception and spiritual insight was such that even after centuries, he is a source of inspiration to a vast number of people in many countries. The University is fortunate to be situated on the very soil where he was born and lived, a soil made more sacred by the aspiration for light and a state of wholesomeness by generation of students.

With a Campus student strength of over 5000, the University offers instruction for higher learning in 50 PG programs and guidance for the award of M. Phil and Ph.D in 48 disciplines spread over six campus colleges. It also offers 153 UG programs in 412 affiliated colleges in the regions of Guntur and Prakasam Districts.

ABOUT GEOLOGY DEPARTMENT

The department of Geology established for academic programs in Acharya Nagarjuna University in 1985 has taken up a post graduation programme, Ph.D and M.Phil research programs. A student friendly, the two year M.Sc., Geology course, being a professionally skilled training. The specific significance and uniqueness of this course designed here is that the highest emphasis is given to the important thrust areas of subject. namely – Remote sensing, GIS and GPS, Geomorphology, Petroleum exploration, Hydrogeological and environmental aspects, apart from covering the basic traditional subjects.

The existing faculty appointed has specializations in these areas and having above three decades research experience and teaching as well working in those directions. A dedicated and sound knowledge with skills, the faculty is meant for that striving in fulfilling the goals of the programs. The course curriculum is constantly reviewed and updated recognizing the dynamic trends. As a result, the outgoing student is able directly either to establish a firm/institution on his own independently, and/or being get appointed by number of organizations instantaneously without need of passing through centers like incubators.

ABOUT APSAC

Andhra Pradesh Space Applications Centre (APSAC) is an autonomous scientific organization under Planning Department, Government of Andhra Pradesh, registered under A.P. Societies Registration Act, 2001 and is a nodal agency for remote sensing. Photogrammetry, UAV Remote Sensing, GIS and GPS applications in Andhra Pradesh. APSAC is organized in 3 divisions namely Geomatics & e-governance, Agricultural & Soil, Geosciences, Water Resources, Disaster Management & Coastal Studies, Land Use, Surveying and Education & Capacity Building, which provides scientific and technical support to government and develop different web GIS applications to line departments to bring a new information regime supporting good governance, sustainable development and citizen empowerment offering RS and GIS decision support services for good governance.

APSAC has a staff strength of about 100 that includes about 25 highly qualified scientists associated in various projects in the respective divisions and highly skilled technical staff. So far APSAC has completed about 150 Aerial, Satellite Remote sensing and GIS Application based projects for the corresponding departments. In addition to operational projects, recently APSAC has initiated different research and development studies for understanding the issues with analytical approach and utilizing the inferences for long run.

APSAC has state of the art computer laboratory with latest hardware and software. APSAC has been maintaining centralized data bank for satellite data and digital data for entire State to provide services in mapping, monitoring and modeling of natural resources using geospatial technology and catering to the needs of various Government Departments like Agriculture, Water Resources, Ground Water, Mines, Disasters, Panchayat Raj, Survey Settlements & Land Records, Forest, Urban Development, Health, Civil Supplies, Rural Development, Wafk, Police, etc.