

Prof. M. JAGANNADHA RAO

M.SC(TECH), MS(USA), Ph.D., SME(USA)

Former Vice Chancellor, Adikavi Nannaya University;
 Former Professor and Head of the Department,
 Department of Geology; Former Dean,
 PG & Professional Examinations, Andhra University;
 Former Director, Delta Studies Institute, AU,
 (Petroleum Research Institute, established by ONGC);
 Chairman, BOS - Dr. B. R. Ambedkar University;
 Former Honorary Director, Information Management Centre, AU;
 Former Director, International Students' Affairs,
Emeritus Professor, Dept. of Geophysics,
Andhra University, Visakhapatnam.
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Vision

The Institution/ University which I will be heading, should become a world class center for teaching, research, training and consultancy in Engineering, Science, Technology and allied fields with extensive industry partnership and international presence. My Vision is to see that the Institute should be the International Institute of Choice for education, Research, training and consultancy. The academic institution will be driven forward to create human resources of eminence to positively contribute towards the generation of knowledge and social commitment through humanism and tolerance, for reason, for adventure of ideas, and for the search of truth. Hence the Institute would therefore seek to ensure the development of center of world-class education infrastructure, provide access to research-enabled learning, and integrate Nation-building with Academic Excellence in advanced studies of Science, Engineering, Technology, Social Science, Management and allied fields.

Specialization

Coastal Geology, Deltas, Mineral Resources and Processing, Petroleum Exploration, Coal, Environmental Geology, Computer Applications, Groundwater, Remote Sensing and GIS, Natural materials, Earth's Evolution.

Academic qualification

Degree/ Diploma	University/ Institution	Year	Class	Subjects
B.Sc.	Andhra University	1978	First	Geology, Physics and Chemistry
M.Sc. (Tech.)	Andhra University	1981	First class with Distinction II Rank	Applied Geology

M.S. Engg.	University of Alaska, USA	1995	3.75 GPA On 4.0 scale	Mineral Preparation and Geological Engineering
P.G. Diploma	Andhra University	1989	First	Applied Statistics
Ph.D.	Andhra University	1985		Coastal Geology/Sedimentology “Origin of Recent Sediments along Visakhapatnam and Bhimunipatnam Coast, East Coast of India”

Ph.D. Details

Done Ph.D. work on “Origin of coastal sediments along Visakhapatnam and Bhimunipatnam East Coast of India” is a detailed work, on these sediments, which is a comprehensive investigation covering red sediments, dune sands and beach sands, which has been a novel contribution. The foreign adjudicator Prof. Orrin H Pilkey, Durham State University, USA, is an all-time great sedimentologist and president of SEPM, in his comments, appreciated the contribution, especially the evidences discovered in this work, related to Pleistocene Sea level oscillations along this part of the coast. These include the first-time report of Beach rock in its various forms, which has been a very significant contribution.

Professional Experience at Andhra University

- **Assistant professor of Geology 1986-1998**
- **Associate professor of Geology 1998-2006**
- **Professor of Geology 2006-2019**
- **Emeritus Professor of Geology - 2023-till date**

1	Teaching	33 years
2	Research	36 years
3	Research Guidance	Guided 25 students for their doctoral research besides guiding a number of Masters' students
4	Administration	15 years (Advisor, Students Affairs; Director, International students; Director, Delta Studies Institute; Chairman BOS, Dr B.R. Ambedkar University; Honorary Director, IMC-AU; Head of the Department, Department of Geology, AU; Dean, PG& Professional Examinations, AU.)
5	Positions held	Vice-Chancellor, Adikavi Nannaya University, Rajahmundry. Chairman, BOS – Dr. B. R. Ambedkar University
6	Consultancy	Extended consultancy services to industry

Subjects taught at Masters' Level

Mineral Exploration, Coal Geology, Petroleum Geology, Economic Geology, Mineral Processing, Geochemistry, Statistical Geology, Computer Applications in Geoscience

Highlights of Scientific/Administrative Achievements

- Headed the Delta studies Institute and made significant contributions research related to Coastal and Deltaic Environments of East coast of India, which has direct bearing on petroleum exploration.
- Conducted Seminars, workshops and Training Programs in collaboration with ONGC,
- Attracted significant funding from ONGC and from Other Oil Companies in the form of Research Projects, Consultancy projects etc.
- Extended consultancy services under MOU to Oil companies including ONGC, Oil India and Reliance Petroleum
- Conducted Refresher Courses to ONGC officials on Applied Coal Petrology in Oil Exploration, and On Modern Deltas which were rated as "Excellent" in ONGC's Participants' Feedback.
- Reported "Beach Rock" for the first time from East Coast of AP.
- Undertaken Collaborative research work with University of Alaska Fairbanks, U.S.A. on coal processing (Development of environmentally friendly coal water fuels)
- Initiation of Research work on Indian Coals in Collaboration with Labs like RRL, Indian School of Mines etc. with emphasis on environmental aspects of coal combustion.
- Undertaken research work on groundwater pollution due to mining, urbanization and Industrialization.
- Carried out extensive research work on Ore mineralogy, geochemistry, Process mineralogy and Environmental aspects of mining of placer ilmenite **deposits** of East Coast of India.
- Conducted Research on Bauxites of East Coast and established a new theory on its origin, based on which new Bauxite deposits were identified in Eastern Ghats of AP using RS and GIS tools.
- Initiated research on applications of RS and GIS tools to solve Geological problems in mining and mineral exploration.
- Initiated research work on characterization of natural materials towards their Nano properties and applications.
- Conducted Research work on software applications on Environmental monitoring.

Patents

1. **Title:** *Prediction and exploration system of locating mineral and fuel resources in oceanic environments* (**Granted**)

Patent No: 561350; Date of filing – 20th Feb, 2019

2. **Title:** *Portable Biosensor for Type2 Diabetes* (**Granted**)

Patent No: 564111; Date of filing – 25th April, 2019

3. **Title:** *Nanostructured FeTiO₃ perovskite for beta backscattering and gamma radiation absorption, Indian Patent*

Application No: 202321006099 (Published)

Title and year of the Ph.D. thesis awarded under the guidance:

Name	Year	Title
V. Asha	2025 (Submitted)	Studies on Geology, Geomorphology, Sediment texture, Foraminiferal abundance and Characterization of eltaic processes of Mahanadi Delta, Odisha, East Coast of India
Y. Vinay Kumar	2025	Studies on Urban Geology for Sustainable Development of Cities using Geospatial and Subsurface Geological Modelling Techniques: A Case Study of Amaravati Region, Guntur, Andhra Pradesh, India
S. Harikrishna	2024 (Submitted)	Studies on Geology, LTA Mineralogy, Petrography and Washability Characteristics of Yellandu High Ash Coals from Singareni Deposit, Godavari Valley Coal Field, Telangana, India
G. Sandeep	2024	Studies on characterization of placer ilmenites from parts of east coast of India, with reference to ore mineralogy and geochemistry towards establishing their genetic parentage
Swati Singh	2024	Geo-environmental assessment for urban growth prospect (UGP) zones along Visakhapatnam coast – A predictive analysis using heuristic and machine learning techniques
Gunda Swathi (AKNU)	2023	Geohydrological characteristics of the watersheds of Eastern Ghats of Visakhapatnam and Vizianagaram districts and quality and over exploitation of groundwater of Ranasthalam, Raveru and Etcherla Mandals of Srikakulam district of Andhra Pradesh, India
K.S.Satya Mounika	2022	Studies on erosional and accretional dynamics of Holocene coastal sediments along Visakhapatnam-Bhimunipatnam Coast, AP, India
Bharani Allu	2018	Applied geological investigations on a few south Indian mineral deposits with an emphasis on the need of pixe technique for fast and reliable mineralogical and geochemical evaluation
P. Avatharam	2018	Studies on Geology, Geomorphology, Localization and Characterization of Placer Sand Deposits from Bhimunipatnam to Itchapuram, North Coastal Andhra Pradesh, East Coast of India
G. Raja Rao	2017	Application of Spatial Technologies towards Geological, Morphological and Slope based characterization of Nagavali-Vamsadhara River systems, East coast of India, with reference to gravity-based flood mitigation

B. Sudharani	2017	Studies on Geology, Geo-morphology, spatial distribution and Sedimentological characterization of coastal sediments from different sub-environments of Visakhapatnam-Bhimunipatnam Coast, Andhra Pradesh, India
V. S. S. Kiran	2017	Studies on Micro watershed Prioritization of Simlapal Block, Bankura district, West Bengal using Spatial technologies with reference to developing, an innovative Hydrological model towards sustainable, soil and water resources management
Greeshma A. G	2017	Studies on Texture, Ore mineralogy and Geochemistry of Ilmenites from parts of East coast of India, with reference to their response to leaching and Nano characterization
M. Mallikarjuna Rao	2016	Studies on Geology, Geomorphology and Environmental impacts on Geological sub- environments of Visakhapatnam Smart city, AP, Due to Rapid urbanization and Industrialization
Ravi Misra, GM, ONGC	2014	Reconstruction of Sub surface Micro environments, Avulsion history and Progradation of Mahanadi Delta East coast of India
Duppala Vijay Kumar	2014	Studies on developing an innovative software and hardware-based system, to detect and monitor air pollution with wireless and web-based protocols
Kolli Mahalakshmi	2013	Mineral exploration, prospects and mining plan methodology of Banded iron formations in parts of Bayyaram (Village and Mandal), Khammam (Rural) district, Andhra Pradesh State, India
P. Satyanarayana	2013	A study on the quality, distribution and management of groundwater in Visakhapatnam district, Andhra Pradesh, India.
K. Isreal	2012	Geology, Geomorphology and Groundwater quality of Thandava sub basin, using RS and Field Investigations"
Anil N. C.	2011	Studies on Spatial and temporal variability of Godavari Delta, Using RS and GIS tools
Ch. Hanuman Prasad	2010	Studies on exploration and Modelling of Bauxite deposits, from parts of Eastern Ghats, using remotely sensed data, Andhra Pradesh, India.
A. A. Jaya Raj	2009	Studies on exsolved phase mineralogy and EPMA geochemistry of placer ilmenite from parts of East Coast of India.
M. Swarna Latha	2008	A Study on land use, land cover and environmental impacts on various sub-environments of Greater Visakha Municipal Corporation area, A.P, India using

		remote sensing and GIS tools.
K. Mehar Ganesh	2008	A Study on Geology, Hydrogeology and quality of fluoride bearing groundwater regime, from parts of Nalgonda District, Andhra Pradesh, India, Using Remote sensing and G.I.S. Tools
J. Venkataramana	2007	Studies on Geology, Ore Mineralogy and Geochemistry of Ilmenite from beach placers of Kakinada, Bhimunipatnam and Srikurram deposits, Andhra Pradesh, India
P. Jagadeswara Rao	1999	Hydrogeology, Morphometry and Remote Sensing Studies on Champavathi River basin, Vizianagaram District, A.P.
P. L. V. Prasada Rao	1998	Studies on Mineralogical and Geochemical Transformations of Coal ash in relation to Coal Combustion from Kothagudem Coal field, AP, India.
G. Jai Sankar	1997	Environmental Hydrogeology and Impact Assessment of Groundwater regime from Agnigundala Sulphide Deposit, A.P., India.
J. Shyam Kumar	1995	Environmental Geology and Impact Assessment of two Geological Sub-Environments from Visakhapatnam Urban-Industrial area. A.P.
K. S. Peter	1992	Geochemistry and Mineralogy of Magnetites and Associated rocks of Polavaram, E.G. District, India.
U. P. N. Raju	1990	Genetic Evaluation of Manganese Ores from parts of Eastern Ghats, India.

Administrative Experience at Andhra University

Director, Delta Studies Institute, Andhra University (2010-2014)

"Served as the Director for the "Delta Studies Institute" of Andhra University during 2010-2015, a research Institute established by ONGC-AU Collaboration. With aggressive planning and strategies, significant funding from ONGC could be attracted, by way of consultancy projects, Training programs, Research Projects CSR projects etc. A good initiative was made to convince the ONGC to agree to sanction a corpus fund to the tune of Rs 20.00 crore to the Institute, by which the Institute could become financially self-sustaining."

Activities carried out:

The Delta studies Institute was established in the year 1997, with the collaboration of ONGC, to undertake research and extend training on modern Deltas, which will help to model the Deltaic process so that the ancient Deltas can be understood in a better way, which are potentially rich in Hydrocarbons. As a Director, **Delta Studies Institute**, research and academic activities related to Modern Deltas, Coastal Geology, petroleum science and technology have been conducted. Being the

Director of the centre, during my tenure a number of activities including **PETRO-FEST-2010, 2011, 2012 and 2014 and training Programs** to ONGC Officials, workshops have been conducted, as mentioned below.

Designed and implemented a national level M. Tech program in Petroleum exploration with the help of ONGC experts. The faculty are also drawn mainly from Oil Industry, who are experts with immense experience.

The students of M. Tech were given project guidance in collaboration with industry experts; Total students guided 31, as shown in Annexure

Training Programmes Conducted to ONGC Officers (2010-2014):

S No	Title of the Training Programme	Organized for	Duration	No of Participants	Feedback
1	Modern Deltas – A Field Seminar	ONGC Academy, Dehradun	16th – 20th Dec., 2013	15	Excellent
2	Modern Deltas – A Field Seminar	ONGC Academy, Dehradun	3 rd – 7 th Dec., 2012	15	Excellent
3	Modern Deltas – A Field Seminar	ONGC Academy, Dehradun	13th – 17th Feb., 2012	15	Excellent
4	Modern Deltas – A Field Seminar	ONGC Academy, Dehradun	5th – 9th Dec., 2011	17	Excellent
5	Modern Deltas – A Field Seminar	ONGC Academy, Dehradun	22nd – 27th Nov., 2010	15	Excellent

National Seminars and Workshops Conducted at Delta Studies Institute (2010-2014)

Convener: Prof M. Jagannadha Rao, Director, Delta Studies Institute

- ✓ **PETRO FEST - 2010** a “National Seminar cum Workshop on **Recent Advances in Hydrocarbon Science, Technology and Industry Prospects**” is being organized from 27th – 29th December 2010.
- ✓ Workshop on “**The initiatives of Delta Studies Institute to attract more industry patronage**” 26th March, 2011.
- ✓ **PETRO FEST - 2011** a National Seminar cum Workshop on “**Indian Petroleum Resources and Petroleum Industry, Present Scenario and Future Prospects**” from 27- 29 December 2011.

- ✓ **PETRO FEST - 2012** a National Seminar cum Workshop on “**Indian Petroleum Resources, Challenges and Prospects for Exploration and Production - Opportunities for New and Nonconventional Energy Resources**” from 27-29 December 2012.
- ✓ **PETRO FEST - 2013** a National Seminar cum Workshop on “**Indian Petroleum and Non-Conventional Energy Resources – Present Trends and Futuristic Initiatives**” from 27- 29 December 2013.
- ✓ **DST Project Monitoring Committee meet, organized as Coordinator, April, 2014**
- ✓ **National Workshop on “The Role of Earth Science Education on Sustainable harnessing of mineral resources of Mineral Resources” June 30th 2018, M.R. College, Vizianagaram.**

Projects at Delta Studies Institute:

- ✓ **Studies on Holocene Evolution of Mahanadi Delta-** Funded by ONGC Rs 85-00 lakhs, 2010-2013, Funded by ONGC, extension also approved.
- ✓ Studies on Land Subsidence due to Hydrocarbon exploration and exploitation at KG-PG Basin, AP using Remote Sensing and Field studies. Rs 1.2 Crore **ONGC 2013**

Director International Students' Affairs, Andhra University. (2006-2009)

Activities carried out:

It was my privilege to initiate foreign student's admissions into Andhra University on a big scale for the first time in the history of the University.

“I have served as the Director, International students Affairs of Andhra University during 2005- 2009, by the time I have taken over AU doesn't have a single foreign student. With my commitment, hard work and planning I could take the foreign students' admissions to the tune of 350 plus annually and helped the University to earn huge revenue and established the tempo of continued foreign student's admissions by entering in to a number of MOUs with international agencies.”

As the Director of International Students' office, I have coordinated all the affairs related to international programs and events at Andhra University. These include International Students admissions including NRI's and PIO's, student exchange programs, MOUs with foreign Universities, design and implementation of joint and Twinning programs with International Universities of repute, faculty exchange, International joint research programs etc. Some of the achievements are given below.

Number of Foreign, NRI and International Students given Admission during the year 2006-09: 350

Some of the most important MOUs signed during my tenure (2006-09)

- ❖ Asia Theological Association, Bangalore on Religious Studies.
- ❖ Kansas State University, USA for Research and Development.
- ❖ Indian Institute of Human Rights, New Delhi.
- ❖ Indian Navy, for establishing a center for Maritime Studies.
- ❖ Alcorn State University, Mississippi, USA.
- ❖ NATCO Institute of Pharmaceutical Sciences & Research, Hyderabad.
- ❖ Blekinge Institute of Technology, Sweden.
- ❖ Defense Research and Development Organization.
- ❖ Soonchunhyang University, Republic of Korea.
- ❖ UND Life Sciences, USA.
- ❖ Florida State University, USA.
- ❖ Globus Education, Hyderabad.
- ❖ University Hospitals of Geneva, Switzerland.
- ❖ University of Delaware, USA.
- ❖ University of Alaska, Fairbanks, USA.
- ❖ Jackson State University, USA.
- ❖ Educational Consultants India Ltd., Govt. of India.
- ❖ Oil and Natural Gas Corporation, India
- ❖ Geological Survey of India.

International Students Hostels

Two full-fledged International Students Hostels each with a capacity of 100 rooms have been completed and International Students were given accommodation. The Hostels are of International Standards with facilities for study, cooking, dining, entertainment, games and facility for Wi-Fi internet etc. I was instrumental in the design and implementation of this project.

Dual Degree and Twinning Programs Initiated

Dual Degree Program with Blekinge Institute of Technology, Sweden.

- M.S. Software Engineering
- M.S. Signal Processing
- M.S. Telecommunication Systems

Twinning Program with Kansas State University, USA.

- M.S. Molecular Biology & Biotechnology

Twinning Programme with Perth College, University of High lands and Islands, Scotland, UK.

- B.Eng. Aircraft Engineering

Additional information:

Specialized training:

- 1) Spectrochemical Analyses (AAS, ICP-MS, Spectrograph) at MIRL, UAF, USA, Grad Courses.
- 2) Electron Probe Micro Analysis (EPMA), University of Washington, Pullman, USA.
- 3) Geo-statistics, National Mineral Development Corporation, Hyderabad, India.
- 4) Computer Applications – Operating systems, Database, GIS, Multimedia, Diploma in Advanced Computing, Multisoft, Visakhapatnam
- 5) Neutron Activation Analysis, (INAA), Kalpakkam, BARC, India.
- 6) PG Diploma, Applied Statistics, Andhra University, India.
- 7) Statistical computing packages, MINITAB, SPSS (Grad Courses), UAF, USA.
- 8) Coal Preparation, Coal Petrology, Coal Chemistry, Mineral Beneficiation from Mineral Industry Research Lab, University of Alaska, Fairbanks, USA.
- 9) Ore Microscopy.
- 10) Hydrometallurgy.

International exposure:

Visited the University of Alaska, Fairbanks, USA and spent nearly two and half years as Graduate Research Assistant and worked with Prof. Daniel E. Walsh at the Mineral Industry Research Lab on “The development of environmentally friendly Coal Water Fuels (CWF’s)”.

Also worked on the project:

“Process mineralogy of ferric Chloride leaching of complex Sulphide ores” and other projects of Coal science and Technology.

Collaborative ties: (National/International)

International:

1. **CSIRO, Petroleum, Australia, Prof. N. Sherwood, Fluorescence Alteration of Multiple Macerals, (FAMM) Studies**
2. **Mineral Industry Research Labs. U.A.F Alaska, U.S.A. – Prof. D.E. Walsh**

The main objective of this project is to upgrade the low rank coals of Tertiary age with special emphasis on moisture reduction using hot water drying (HWD) technique. Also, emphasis is given to develop environmentally friendly coal water fuels from HWD product.

National:

- 1) Ravi Misra, KDMIPE, ONGC, Dehradun
- 2) Papa Rao Bhavana, GM, KG-PG Basin, ONGC, Rajahmundry asset,
- 3) Ravi Armudi, Sr Petroleum Geologist, Reliance Petroleum
- 4) Nathaniel. K, Consultant, Petroleum Exploration,
- 5) Uma Mahesh, Ajapa, Oil well Drilling company.
- 6) Mr. Venugopal, Sr Consultant, Oil India Ltd
- 7) Krishnamacharyulu, Director, Earth Sciences, University of Nanded,
- 8) Indian Institute of Technology, Roorkee- Prof Chakrapani Govind
- 9) Regional Research Laboratories, Bhubaneswar – Dr. R.B. Rao
- 10) Indian School of Mines, Dhanbad – Prof. A. S. Venkatesh

- 11) Nuclear Chemistry Division, BARC, Mumbai- Dr A. V. Reddy
- 12) Anna University- Prof R. Nagendra
- 13) GITAM University-Prof Ch. Rama Krishna
- 14) Ravi Shankar University- Mr. Gopala Krishna
- 15) Dr R. Giri Prasad, Aditya Engineering College, JNTU(K), Kakinada

Within the Campus:

- 1) Dept of Environmental Science-Prof Prasada Rao
- 2) Dept Mechanical Engg- Prof A. Rama Krishna, Material Science
- 3) Dept of Nuclear Physics-Dr S. Lakshmi Narayana
- 4) Dept of Geo-Engineering- Prof K. S. Prakasa Rao
- 5) Dept of Nuclear Chemistry-Prof R. Murali Krishna

Research Outcome:

1. No. of PhD's awarded under the guidance: 28
2. No of M. Tech./M. Sc. Theses: Over 80 (1986 to till Date)
3. No. of research projects: 8
4. No. of papers published
 - ❖ National and International: Over 120 (Published in Journals)
 - ❖ 13 papers presented in National and International Seminars and 3 papers communicated

Memberships of Reputed Academic Bodies

National:

1. Honorary Fellow, A.P Akademi of Sciences, Hyderabad.
2. Life member Indian Geological Congress. (IGC)
3. Member, Gondwana Geological Society, Nagpur, India.
4. Member, Indian Science Congress
5. Special Invitee, SPG, India
6. Resource Person, GITAM University
7. Associate Editor, Indian Journal of Environment and Eco planning

International:

1. Member, Society for Metallurgical Engineers, (SME), USA.
2. Member, UAF Alumni Association, USA
3. Life Member and Executive Secretary (Visakhapatnam Regional Chapter), SAAEG

Industry Interaction

- Conducted number of Refresher Courses and training programs to ONGC and other oil Companies' Officials on "Modern Deltas" and "Organic Geochemistry and Applied Coal Petrology in Oil

Exploration"

- Designed and Implemented M. Tech Course in Petroleum Exploration with Industry Patronage and Cooperation. Number of cement Industries (L&T, ACC) and are showing keen interest on the research work leading to the process development for zeolite synthesis from Coal Fly ash which will be of environmental friendly technology in fly ash management.
- Consultant for ONGC and Oil India Ltd on Land subsidence studies.
- Chief Consultant Geomarine Services, Mangalore.
- Special Invitee, InfoTech Ltd.
- Resources Person, SAPALA Research Institute, Hyderabad
- Chief Consultant, Chakri Industries

Honors & Appointments

1. Member, Advisory Board on KG-PG Basin, ONGC, Chennai-2011-2014
2. Associate Editor, Indian Journal of Environment and Eco planning.
3. Member, International Geological Correlation Group, National Working Group on Environmental Catastrophes.
4. Students' Advisor, Dept. of Geology, Andhra University.2002-2005
5. Director, International Students affairs, Andhra University. 2006-2009
6. Director, Delta Studies Institute, Andhra University 2010-2014
7. Chairman, Board of studies, DSI, Andhra University, 2010-2014
8. Chairman, Board of Studies, Dept of Geosciences, Ambedkar University, Srikakulam 2012-till date
9. Honorary Director, Information Management Centre, Andhra University, 2018- till date.
10. Head of the Department, Department of Geology, Andhra University, 2019-till date.
11. Dean, PG & Professional Examinations, Andhra University, 2019- till date.
12. Member, NAAC Steering Committee, AU
13. Member, Committee for Central University Proposal Preparation
14. Management Board member of a Number of Educational Institutions.
15. Member, Andhra University Academic Audit. 2016 and 2017
16. Member, GITAM University, Committee on M.Sc. Earth Sciences Course Design.
17. "Scientist of the year 2017" by National Environmental Science Academy (NESA), New Delhi.
18. Member, Organizing Committee, International Geological Congress, IGC 2020

Fellowships:

1. **Federal Graduate Research fellow, University of Alaska, USA (1990,1992-95)**
2. **JRF and SRF, from CSIR, New Delhi (1982-86)**

Earlier Selections:

1. Civil Services Group B Service, UPSC Exam 1985.
2. UPSC, Geologists Exam, All India 11th Rank, 1983.

Consultancy:

Expertise in the following areas

1. Petroleum Geology,
2. Coal Science and Technology (Coal Petrology, Coal processing and CBM)
3. Mineral beneficiation, Mining and Mineral resource evaluation,
4. Natural materials and industrial applications,
5. Instrumental analysis (AAS, ICP, INAA) of Geological materials.
6. Interdisciplinary investigations with Civil, environmental, Metallurgical and chemical Engineering.
7. Environmental Geology
8. Subsidence Studies (SAR Applications)

Consultant:

Consultant for various mining companies within Andhra Pradesh state.

Consultancy services rendered:

Petroleum Exploration, Mineral exploration, geological mapping, Geochemistry, Ore reserve estimations, Environmental impact assessment, Geotechnical Engineering, Quality control, Coking Coal Characterization, Particle size analysis, Geo marine Services, Training programs to ONGC and other Oil Companies.

Invited Talks: 50 plus (1986-Till Date)

Other funded Projects as Principal Investigator:

- “Studies on Characterization and Localization of placer mineral deposits from parts of coastal tracts of AP and Orissa with special reference to the development of processing strategies”. 2002-2005, Funded by DOD, Rs. 10.66 lakhs,
- “Studies on exploration and reserve estimation for new and hidden Bauxite deposits from EGMB of A.P.” funded by APMDC-DMRTUF, Govt. of AP, Hyderabad. Amt: Rs.13.0 Lakhs. Duration: 2 years (1st April 2007 to 31st Mar 2009)
- “Studies on exsolved phase mineralogy and chemical finger printing of placer ilmenites from North coastal Andhra Pradesh to establish from North Coastal Andhra Pradesh to establish genetic affinities and to evolve economic implications” funded by DST, New Delhi. Amt: Rs.14.4 Lakhs. Duration: 3 years (1st April 2007 to 31st Mar 2010)

- “A study on process chemistry and product characterization of zeolite synthesis from coal fly ash and its applicability in soil remediation and conditioning” funded by UGC, New Delhi. Amt: Rs. 6 Lakhs. Duration: 3 years (1st April 2007 to 31st Mar 2010)
- “A Study on coastal geomorphological and neo-tectonic controls on the localization of placer mineral deposits along Bhimunipatnam – Itchapuram, North Coastal, Andhra Pradesh” funded by MoES Amt: Rs.12 Lakhs. Duration: 3 years (2009-2012)
- “Spatial Characterization studies of Cleat and Fracture Patterns of Coal formation from Godavari Valley Coal Basin to evaluate the zones of Coal Bed Methane (CBM) migration and accumulation using Remote Sensing and Field Studies” Funded by Respond-ISRO Amt: Rs 5.3 Lakhs. Duration: 1 year (2009-10)
- Studies on Holocene Evolution of Mahanadi Delta- Funded by ONGC Rs 85-00 lakhs, 2010- 2013, Funded by ONGC, extension also approved
- Studies on Land Subsidence due to Hydrocarbon exploration and exploitation at KG-PG Basin, AP using Remote Sensing and Field studies. Rs 1.08 Crore ONGC 2014.

Other Activities:

Expert Member: UPSC, APPSC, Sambalpur University, Orissa; Kakatiya University, Andhra Pradesh; Nagarjuna University, Andhra Pradesh; Nagaland University, Izwal; Ambedkar University, Andhra Pradesh; Nannayya University, Andhra Pradesh.Utkal University, Aditya Engineering College

Paper Setter: Andhra University, Osmania University, Ravishankar University, Ambedkar University, Indian school of Mines, Dhanbad; APPSC, Different State Universities within Andhra Pradesh and Orissa, UPSC (Geologists' Examination).

Management Board Member: Stanley college of Engineering, Hyderabad; Indur College of Engineering, Hyderabad; Chadalvada College of Science, Engineering and Pharmacy, Tirupathi.

Activities of Societal relevance: Radio and T.V talks and interviews on aspects of Earth sciences of public interest. Interviews and articles to print media including publications in regional languages. Popular Lectures to School and college Children on Earth Sciences.

Student counselling: (Worked as student's adviser for three years (2005-2008 in the department of geology). Academic Counselling, Counselling and guidance for Competitive exams, Counselling for personality development. Job placements, Study abroad.

New Courses and Curriculum Designed:

Being Member in various Boards of Studies I have vast experience in curriculum design and implementation at UG and PG level.

S No	Innovative Academic Programmes Formulated	Date of approval	Year of Introduction
1	MTech Petroleum Exploration and Production (Delta Studies Institute, Andhra University)	01-03-2010	2010
2	M.Sc Five-year Integrated Course in Geology (Dept of Geology, Andhra University)	01-03-2005	2005

3	PG Diploma in Well Site operations (Dept of Earth Sciences, Adikavi Nannaya University)	01-03-2021	2021
4	Part time Diploma in Kuchipudi Dance (Adikavi Nannaya University)	01-03-2023	2023
5	Diploma in Journalism (Adikavi Nannaya University)	Proposed	
6	MSc Earth Sciences (GITAM University)	Proposed	
7	MBA Five-year Integrated Course & Executive MBA (Adikavi Nannaya University)	Proposed	

List of key MOUs formulated:

S No	MoUs formulated	Departments involved	Year
1	MoU signed for Academic Collaboration	Lincoln University College, Malaysia and Adikavi Nannaya University	2021
2	MoU signed for Academic Collaboration	JNTU-K, Dr YSR Horticultural University, NIT AP and Adikavi Nannaya University	2021
3	MoU signed for establishment of Incubation Centre	Software Technology Parks of India (STPI) and Adikavi Nannaya University	2021
4	MoU signed for Academic Collaboration	Oil and Natural Gas Corporation, India and Andhra University	2010
5	MoU signed for Academic Collaboration	Geological Survey of India and Andhra University	2010
6	MoU signed for Academic Collaboration	Educational Consultants India Ltd., Govt. of India and Andhra University	2010
7	MoU signed for Academic Collaboration	University of Delaware, USA and Andhra University	2009
8	MoU signed for Academic Collaboration	University of Alaska, Fairbanks, USA and Andhra University	2009
9	MoU signed for Academic Collaboration	Jackson State University, USA and Andhra University	2009
10	MoU signed for Academic Collaboration	Florida State University, USA and Andhra University	2008
11	MoU signed for Academic Collaboration	University Hospitals of Geneva, Switzerland and Andhra University	2008
12	MoU signed for Academic Collaboration	Globus Education, Hyderabad and Andhra University	2008
13	MoU signed for Academic Collaboration	Defense Research and Development Organization (DRDO)	2007
14	MoU signed for Academic Collaboration	Soonchunhyang University, Republic of Korea and Andhra University	2007
15	MoU signed for Academic Collaboration	UND Life Sciences, USA and Andhra University	2007
16	MoU signed for Academic Collaboration	Blekinge Institute of Technology, Sweden and Andhra University	2006
17	MoU signed for Academic Collaboration	NATCO Institute of Pharmaceutical Sciences and Andhra University	2006
18	MoU Signed for establishing Maritime Institute	Indian Navy and Andhra University	2006
19	MoU signed for collaboration on R&D	Kansas State University, USA and Andhra University	2005
20	MoU signed for Academic Collaboration on Religious Studies	Asia Theological Association, Bangalore and Andhra University	2005
21	MoU signed for Academic Collaboration	Indian Institute of Human Rights, New Delhi and Andhra University	2005

Achievements as the Vice Chancellor (2020-2023)

The Government of Andhra Pradesh has appointed me as the Vice Chancellor of Adikavi Nannaya University of Rajamahendravaram for a period of 3 years, I have served this University from 8th January 2020 to 7th January 2023. This University was established in 2006, hence it is a very young and budding University in the state of Andhra Pradesh. Despite the problem of pandemic during the tenure, the University was driven towards academic discipline, research initiatives and administrative reforms. The university was guided towards achieving all the required HE certifications like ISO, AICTE and NAAC (B+).

During the Covid Lockdown period, the academic programs of the university were kept going, using the online platforms where students were given continuous instruction by the faculty. This period was utilized in a beneficial way, where faculty were instructed to prepare project proposals, publish papers and also were given tasks to prepare the documentation for the above certifications. Besides this, during the pandemic lockdown periods, the Adikavi Nannaya University got a unique distinction of conducting more than 100 webinars in a very short period of 400 days. This resulted in the recognitions like India book of Records and Asia book of Records. The discipline in the campus was given top priority and the students are ensured a peaceful and active academic environment with zero tolerance for ragging. In the administrative front, many reforms were made towards transparency including payment gateway for online payments, Online question paper delivery and initiatives taken for total computerization of examination and evaluation systems. The Adikavi Nannaya University is having 400+ affiliated colleges and all these colleges were guided towards academic and administrative excellence.

The most important achievements by me are mentioned below:

1. Research and Academics

- ❖ Motivated faculty and research scholars towards quality research output including providing seed money to the faculty, meeting the expenditure related to paper publications, giving on duty leave for research related travel etc.
- ❖ Permanent faculty are given encouragement to propose research projects for funding agencies.
- ❖ Entered MOUs with number of research institutes within the country and abroad to improve the research ecosystem within the campus.
- ❖ Initiatives are taken to digitalize the library including subscribing online research resources like **JSTOR**, **JGATE** and access was given to teachers, research scholars and students including from affiliated colleges.
- ❖ Liberal funding is provided to various science and engineering laboratories for upgradation.
- ❖ Rs 3 crores were sanctioned to develop centralized science instrumentation center.
- ❖ An online journal '**Nannaya Vignana Bharathi**' has been initiated with ISSN number for the benefit of researchers of campus colleges and colleges affiliated to the university.
- ❖ Library timings have been increased for the benefit of research scholars to utilize the library resources during maximum period of the day time including on holidays.

- ❖ **Research collaboration** among nearby universities has been signed which include JNTU Kakinada, YSR Horticulture University, NIT Thadepalligudem and AKNU.
- ❖ “**VINIMAYA Lecture Club**” has been initiated where weekly lectures will be given by the faculty on their research activity and academic contributions. All the faculty and research scholars from all the colleges will have to attend.
- ❖ Part time Dance Diploma and Diploma in Psychological counselling were initiated.

2. Student Centric Programs

- ❖ Students are provided with improved hostel facilities.
- ❖ Aggressive online classes during Covid lockdown period.
- ❖ Free unlimited Wi-fi in all campus buildings and Hostels provided.
- ❖ To encourage research bent of mind among students, initiatives such as “**Wall Journals**”, **Student Clubs**, **Innovation Clubs** etc. are developed to foster creative thinking among the students.
- ❖ Open air classroom “**Vinuthna**” for conduct of classes in an open environment in the University campus and for the benefit of students who can utilize the same, for discussions and discourses have been established.
- ❖ A permanent **counseling center** for the students has been established on campus which will extend counseling to the students on campus and to students of affiliated colleges.
- ❖ **Online counseling** was given to students during corona period.
- ❖ Strict discipline among students is enforced with zero tolerance for ragging.
- ❖ **Anti ragging committees** and **task force** were kept in place to monitor the students for any activities, which are unwanted among students.
- ❖ Students are given an opportunity and provided a conducive environment for learning and making their stay academically rewarding and enjoyable.
- ❖ Established very effective **LMS – Learning Management System** for the degree students of affiliated colleges where the best Video lessons covering the entire syllabi of BSc, BCom, BA, BCA and BBM programs of the university.
- ❖ Launched UGC NSQF PG Diploma courses in Arts, Sciences and Engineering streams of AKNU.
- ❖ **Software Incubation Center** was established with an MOU with MNC, INFOLOBS, for the benefit of Students on Campus.
- ❖ Established International Students Cell at Adikavi Nannaya University to help students from foreign pursue their academics in the University.

3. Administrative Reforms

- ❖ Initiated payment gateway for all types of payments online.
- ❖ Initiated weekly program of ‘**Dial your University**’ where all the queries and problems of Stakeholders of the University were sorted out on the spot.
- ❖ To avoid problems in Hard copy Question paper delivery etc., “**Online Question Paper Delivery**” has been introduced.
- ❖ Initiatives have been taken for total computerization of examination system from exam application to issue of degree certificate.

- ❖ High Security certificates have been introduced.
- ❖ Periodical quality audits in different administrative departments has been introduced.
- ❖ Non-teaching staff are given professional training in improving their knowledge in computer applications, accountancy, English communication skills etc.
- ❖ Steps have been taken to follow E-Office procedures (Paperless Office).

4. Campus Improvement

- ❖ Sports Infrastructure has been given top priority and about Rs 10 crore funding could be obtained from Sports Authority of India under '**Khelo India**' program. This is being used for the construction of Indoor stadium and swimming pool of International Standards.
- ❖ Top priority was given to develop the greenery in the campus with the help of state forest department and some of the NGOs. Nearly 30,000 saplings were planted by aggressive green initiatives.
- ❖ About 50 rainwater harvesting pits have been dug to capture and conserve the rainwater, so that the groundwater levels within the campus can be improved and sustained.
- ❖ Campus beautification has been given top priority. Efforts have been taken to see that campus is clean and green, and established places for socializing and recreation.
- ❖ Solar panels have been established on top of the buildings to conserve the energy and save the money from the electricity costs.
- ❖ Developed Biodiversity park at Adikavi Nannaya University in collaboration with AP Biodiversity Board at AKNU MSN Campus, Kakinada.
- ❖ Installed Smart Classrooms with Video Capture Technology to facilitate online classes and development of e-resources.

5. Academic Certifications and Records

- ❖ Attained of **ISO 9001:2015** Certification for Adikavi Nannaya University.
- ❖ Attained **AICTE** approval for Adikavi Nannaya University College of Engineering and MCA, MBA programs at MSN Kakinada Campus.
- ❖ Achieved **NAAC B+** accreditation for Adikavi Nannaya University.
- ❖ Attainment of **Asia Book of Records and India Book of records** for being the Fastest University to conduct 100 Webinars.
- ❖ Attainment of **ISO 14001:2015** Green and Environment Award for AKNU.

6. Other Initiatives

- ❖ The NSS activities of the campus have been aggressively encouraged and the NSS unit of the campus have taken up a number of societally relevant activities including the development of "**Blood Donor Database**", "**Swatch Bharath programs**", food donation and other voluntary services during covid lockdown times.
- ❖ An innovative initiative has been taken where an internal weekly publication by name "**Nannaya Vani**" has been started to publish all the information pertaining to the events held during that week. It is an E-Paper which is environment friendly and given excellent visibility to the university not only in this country but also internationally.

- ❖ Another initiative was the establishment of “**Nannaya Bharathi**” – a special enclosure within the general library for preserving valuable books, manuscripts and other cultural resources donated by the great writers and citizens of Godavari districts. Nearly 12,000 such volumes have been collected and preserved in Nannaya Bharathi with the names of donors.
- ❖ Developed Alumni Association ANURAA at AKNU to take the support of the alumni for the benefit of the present students.

Future of Research and administration:

Wish to continue my advanced research activity on the aspects of, Petroleum exploration, Coastal Geology (Deltas and near shore sedimentation), Placer deposits of east coast of India, Environmental geology and Mineral Resources on the research topics of Industrial applications like material science of natural materials, synthesis of zeolites from fly ash, new and innovative Environmentally friendly, mineral beneficiation techniques and computer simulation and modelling of Geo environmental Problems and Petroleum exploration.

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125. Y. Vinay Kumar, Mokka Jagannadha Rao, Geospatial Analysis of Land Use Land Cover Change Dynamics of Amaravati Region, Guntur, Andhra Pradesh, India, 2024, Communicated to Iraqi Journal of Science, Scopus.
126. M. Jagannadha Rao, J.K.S.S. Mounika, Revisiting the Geomorphology, Texture and Mineralogy of Red Sediments from Visakhapatnam Coast: A Novel Perspective on Their Origin, 2025, Communicated to Journal of Coastal Research, Scopus.

Papers Communicated

1. B. Gopal Krishna, Dhriti Sundar Ghosh, Sanjay Tiwari, M. Jagannadha Rao, Ilmenite Nanoparticle Based Concrete Composite for Beta Backscattering and Gamma Radiation Absorption, International Conference on Innovation and Challenges in Nanoscience and Nanotechnology, 15th–16th Dec, 2022, Sanjay Rungta Group of Institutions, Raipur, C.G.
2. Mineralogy and Textural Characteristics of Red Sediments, INS Kalinga Area Visakhapatnam, Andhra Pradesh, India (Communicated).
3. Studies on Land /Land cover and Change detection from parts of Southern West Godavari District, AP-Using Remote sensing and GIS Techniques, Accepted for publication in Journal of Indian Geophysical Union, Hyderabad.
4. A comparative study of textural parameters of sand fraction, from coastal sediments of Visakhapatnam-Bhimunipatnam Coast, A.P, India.

Papers Presented in Seminar

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2. Presented at the National Seminar on the "Ore Mineralogy and its Impact on Resource Evaluation" held at Andhra University, 1987.
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8. Jagadeswara Rao.G, Jagannadha Rao.M and Chandra Rao.M, "Groundwater Evaluation in Chamapavathi River Basin, Vizianagaram district, using Governmental norms". Presented at International Seminar on Challenges in Water Resources Management in the Developing Countries held in May 2001, Department of Geology, Andhra University.
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10. "Studies on Characterization of Placer Ilmenite from parts of East Coast using Ore Microscopy and Ore Chemistry". Paper Presented at International Seminar on Sedimentation and Tectonics in space and time, 16-18th April 2002.Organized by: Dept. of Civil Engineering, S.D.M. College of Engg& Tech, Dharwad-3 & Dept. of Geology, Karnataka University, Dharwad – 580 003.
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12. M. Jagannadha Rao, "Some Concepts of Computer Applications in Geology". Presented at National Seminar on Computer Applications in Earth Sciences held at Department of Geology, Andhra University, Visakhapatnam, August 25-27, 2003.
13. M. Jagannadha Rao, J. VenkataRamana and B.S. Ganga Rao, "Process Chemistry and Product Characterization of Synthesized Zeolites from Coal Flyash". Presented at National Seminar on Mineral Process Technology held at Regional Research laboratory, Bhubaneswar, March, 2009
14. Petrofest 2010,2011,2012, 2013 at Delta Studies Institute, Andhra University, Visakhapatnam (Key note address /Papers presented in all the events)
15. National Workshop on "The Role of Earth Science Education on Sustainable harnessing of mineral resources of Mineral Resources" June 30th 2018, M.R. College, Vizianagaram. -Key Note Address

ANNEXURE I

M.Tech Petroleum Exploration and Production Theses guidance:

S.NO.	NAME	TITLE OF PROJECT	INDUSTRY
1	Yogaraj Kumar	Analysis on rig components in PGDA Block-3 in KG-Basin Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. N.R. Subba Rao	AJAPA-E&P Consultant, ONGC Rajahmundry
2	Venkata Krishna Reddy K	Analysis of complicated well histories and recommendations for successful completion including technology perspective. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. G. Vinay Kumar Gupta	Institute of Drilling Technology, (IDT) ONGC, Dehradun
3	A Krishna Murthy Naidu	Non-Damaging Drilling Fluids. Internal Guide: Prof. M. Jagannadha Rao External Guide: Dr. V.K. Singh	IDT, ONGC, Dehradun
4	RagalathaJagatha	A case study on SagarRatna (Jack-up Rig) and detailed overview of synthetic oil based-drilling fluid for the off-shore oil field. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. N. Appa Rao	Hindustan Shipyard LTD., Visakhapatnam
5	K.Vijay Daniel	Glimpse into measuring while drilling and steerable down hole mud motor systems. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. V.V. Prasad	ONGC, Rajahmundry
6	Sri HarshaVardhanSistla	Reservoir Management and analysis – For a producing field. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. Vijay Gajula	Saturn Energy Solutions, Hyderabad
7	P. AnoopGowtham	Shale Studies Internal Guide: Prof. M. Jagannadha Rao External Guide: Vishwanath Rai	IDT, ONGC, Dehradun
8	Aravind Pandey	Hydrocarbon Prospective studies in Mandapeta West area KG-PG basin, East coast of India. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. P.R. Bhavana	ONGC, Rajahmundry

9	Soujanya Bobbili	G&G Report on ColueHampi – Argentina. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. Vijay Gajula	Saturn Energy Solutions, Hyderabad
10	G.V.Prasanna Kumar	Drilling Operations. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. V.V. Prasad	ONGC, Rajahmundry
	P.Naresh	Study on Casing While Drilling. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. B.S. Naidu	AJAPA IPM Consultants Pvt. Ltd., Chennai
11	SreeSaranya M	Estimation of reserves by pressure decline method in Kanawara field. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. K. Ramachandra Rao	Heramec Ltd., Hyderabad
12	PonnadaRaghunathaDeo	Development of viscous emulsified acid system for carbonate reservoir stimulation. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. D. K. Sharma	IOGPT, ONGC, Mumbai
13	Narendra Vemana	Development of low density completion fluids for sub-hydrostatic wells. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. K. Balakrishnan	IOGPT, ONGC, Mumbai
14	V.VijayBhargav	Technical Study on Directional Drilling Motor. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. N.R. Subba Rao	ONGC, Rajahmundry
15	V.Sretej	Stuck Pipe Prevention. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. V.V. Prasad	ONGC, Rajahmundry
16	V.Madantej	Well Planning and casing design. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. V.V. Prasad	ONGC, Rajahmundry
17	V.Radha Krishnan	Perforations via coiled tubing unit. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. S.K. Singh	Cairn Energy India Limited, MPT Rajasthan Operations

18	Thomas Babu.P	Sequence stratigraphical analysis of Langpar and Lakadong formations of tertiary sequence using wireline logs of Dibrugarh district of Upper Assam basin. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri Prabhu Shankar Karthikeyan	Ajapalpmc Pvt. Ltd., Chennai
19	TangiralaUmamaheswar	Annular pressure build up causes and mitigation. Under the Guidance of Prof. M. Jagannadha Rao	DSI, AU
20	SaladiSrikanth	Well Testing and completion. Internal Guide: Shri. B.V. Rao External Guide: Shri. T.C. Devangan	ONGC, Rajahmundry
21	Sai Manjusha P	Estimation of reserves by material balance method in Kanwara field. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. K. Ramachandra Rao	Heramec Pvt Ltd, Hyderabad
22	PrakharSaxena	3D Seismic data-acquisition and seismic design. Internal Guide: Prof. M. Jagannadha Rao External Guide: Mr.Ravi Kumar Kotha	Saturn Energy Solutions, Hyderabad
23	Varun. N	Integration of geological, geophysical and drilling data evaluation using 3D for the hydrocarbon prospect of the block in work station located in the KG-offshore, Andhra Pradesh India. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri P.D.Thomas	ONGC, Chennai
24	Chander Prakash	Monitoring of drilling and geological parameters of a well in Krishna- Godavari Basin. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri P.R.Bhavana	ONGC, Rajahmundry
25	S.Rishi Raj Kumar	Evaluation of KG-offshore block for hydrocarbon potential using geological and 3D-Seismic data at workstation. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri.P.D.Thomas	ONGC, Chennai
26	JnanaDileepPonnada	Brief insight of oil and gas well drilling. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. V.V. Prasad	ONGC, Rajahmundry

27	Anantha Kumar K	3D-Seismic Data Processing. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri. Ravi Kumar Kotha	Saturn Energy Solutions, Hyderabad
28	Ravi Chander B	Measurement while drilling tools and its principles. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri Vinod PadinhareVeetil	Weatherford Oil Tools M.E. Ltd., Kakinada
29	Devanathan.R	Depositional environment and hydrocarbon prospectivity of Matsyapuri formation in Gopavaram Area, KG-PG Basin, India. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri R.N.Mishra	ONGC, Chennai
30	Suresh Sanapathi	Technical study on directional drilling motor. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shree Sandeep Amin	Weatherford Oil Tool M.E Ltd., Kakinada
31	Dalbin T Vempeni	Structural Style and hydrocarbon prospectivity of Gollapalli Formation in Endamuru Area, KG-PG Basin India. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri R.N.Mishra	ONGC, Chennai
32	Pavan Kumar Talasila	Brief insight of oil and gas well drilling. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri V.V.Prasad	ONGC, Rajahmundry
33	Neeraj Kumar	Monitoring of drilling parameters in a high temperature well. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri P.R.Bhavana	ONGC, Rajahmundry
34	Ganesan G	Prospectivity evalution of Krishna mouth area KG-PG Basin using 2D-seismic and well data offshore, Andhra Pradesh, India. Internal Guide: Prof. M. Jagannadha Rao External Guide: Shri P.D.Thomas	ONGC, Chennai

ANNEXURE II**ADIKAVI NANNAYA UNIVERSITY RAJAMAHENDRAVARAM****ACTIVITIES DURING LOCKDOWN**

S.No	Date	Name of the Webinar/Workshop/FDP
1	6 May 2020	Digital Seminar on Advance Chromatography Techniques and Industry Applications
2	11 - 15 May 2020	Faculty Development Programme on Challenges and Strategies of Teaching in Post COVID - 19
3	13 May 2020	Webinar on Psychological Perspectives of COVID - 19 Pandemic
4	15 May 2020	One Day Webinar on Therapeutic Applications of Ayurveda, Naturopathy and Homoeopathy in COVID - 19
5	15 May 2020	Webinar on CSR and SD: Lessons from the Pandemic
6	23rd May 2020	Webinar on Coping Strategies for India's Economy During Post COVID - 19
7	26 May 2020	National Webinar on Intellectual Property Rights : Current Issues and Challenges
8	28 - 29 May 2020	Webinar on Telugu Sahityam - Samajika Chaitanyam
9	29 May 2020	One Day Webinar on Open Access Resources, Tools and Techniques for Researchers
10	29 May 2020	One Day National Webinar on Current Trends and Opportunities in Physics
11	30 May 2020	Webinar on Role of Electronics in Analytical Instrumentation
12	04 June 2020	National Webinar on Creative Writing of Research Proposals and Articles
13	05 June 2020	World Environment Day 5th June 2020 Foster Biodiversity Nurture Nature
14	05 June 2020	Webinar on Cryptography and Current Trends in Security for Pervasive Applications
15	06 June 2020	International Webinar on COVID-19: Research Strategies and Therapeutics
16	09 June 2020	Webinar on Remote Sensing and GIS Applications for Earth Surface Processes and Resource Monitoring
17	10 June 2020	One Day International Faculty Development Programme on Academic Publication Strategy, Planning & Execution
18	11 - 16 June 2020	National Webinar - One Week Faculty Development Program on Recent Advances & Approaches in Chemical Biology & Drug Discovery
19	12 June 2020	One Day Webinar on Evidence Based Public Policy & Response of The Indian State to COVID - 19
20	16 June 2020	Webinar on Role of Atmanirbhar Bharat Abhiyan in Indian Economy During Post COVID - 19 Scenario
21	17 June 2020	Invited Talk on English Language Teaching Practice
22	18 June – 1 July 2020	Telugu Two Week Faculty Development Programme
23	18 June 2020	National Webinar on Recent Advances in Instrumental Analytical techniques: Challenges, Solutions and Trends in Geo-chemical and Environmental Studies

24	19 June 2020	International Webinar on COVID19 : Contemplations on its Pathophysiology and Possible Ending
25	27 June 2020	National Webinar on Media Services in COVID - 19
26	01 July 2020	One Day National Webinar on Significance of Social Work Profession in The Context of New Social Environment
27	02 July 2020	Webinar on Recent Trends in Physical Education and Sports Science
28	07 July 2020	National Webinar on Image Processing Based Methods for Diagnosis of Covid-19
29	08 July 2020	National Webinar on Impact of Government's Innovative and Path breaking Policies of Education in Andhra Pradesh
30	09 July 2020	National Webinar On Therapeutic applications of Ayurveda, Naturopathy and Homoeopathy in COVID 19
31	10 & 11 July 2020	Two-day National Webinar on Teaching Language & Literature Through Online Resources
32	16 July 2020	National Webinar on Pharmaceutical Scenario in COVID - 19 Era
33	20 July 2020	An International Virtual Colloquium On Environmental Humanities
34	23 July 2020	National Webinar on STEPS FOR BETTER LIFESTYLE
35	24 July 2020	National Webinar on New Horizons of Aquatic Ecosystems- Towards Sustainable Development
36	29 July 2020	International Webinar on Challenges to Education of Children with High Support Needs
37	30 July 2020	National Workshop on Online Teaching Learning Methods
38	03 & 04 August 2020	A Two-Day Webinar on Demonstration of Online Educational Tools
39	05 August 2020	Faculty Development Program on Emerging Concepts in Commerce & Management Studies
40	07 August 2020	Webinar on Recent Trends in Rock Mechanics and Engineering Geology
41	11 - 16 August 2020	Five Day International Faculty Development Programme on Enhancing Digital Proficiency: A Platform for Refining the Research and Teaching Skills
42	14 August 2020	Online Swachhta Action Plan Workshop for Campus & Affiliated Colleges Principals
43	19 August 2020	Online Workshop on Rural Entrepreneurship
44	20 August 2020	One Day National Webinar on Federal Goverenance in India : Contemporary(Covid-19) Dimensions and Dynamics
45	21 August 2020	One Day International E - Workshop on Role of Artificial Intelligence in Industrial Automation and Agriculture
46	26 August 2020	One Day National Webinar on Recent Trends in Indian Economy : Challenges and Revival Measures
47	27 August 2020	State Level Webinar on Differential Equation Models in Mathematical Modelling
48	29 August 2020	Telugu Basha Sastravethalu - Basha Seva
49	02 September 2020	One Day National Webinar on Managing Career, Stress and Anxiety During & After Covid-19
50	05 September 2020	National Webinar on NATIONAL EDUCATION POLICY - 2020 : TRANSFORMATIONAL REFORMS IN EDUCATION SYSTEM OF INDIA
51	10 September 2020	National Webinar on Role of Emerging Technologies and Entrepreneurship in Realizing the Vision of NEP 2020
52	19 September 2020	One Day Workshop on Resurgence Planning for Academic Continuity (NEP - 2020)

53	30 September 2020	National Webinar on Role of management professionals in managing business activities in crisis environment - COVID 19 and revival of Economy
54	30 September 2020	Webinar on Relevance of Gandhism in Today's Youth
55	10 October 2020	International Webinar on World Mental Health Day
56	12 - 17 October 2020	A one week online National Workshop on Research Methodology
57	19 October 2020	National Webinar on Premises and promises in pharma and biotech Sector
58	24 - 26 October 2020	International Webinar on Modern Telugu Literature - Tilak Sublimity
59	28 October 2020	Webinar on Crimes Against Women - A Legal Perspective
60	11 - 12 November 2020	National Webinar on Digital Technology in Education : Concerns and Consequences
61	13 - 14 November 2020	Two-day International Workshop on Research Methodology and IEEE Authorship Lab
62	19 November 2020	International Webinar on Sahitya Acharya Atherya Sathajayanthi Mahasabha
63	23 - 27 November 2020	Online Faculty Development Programme for Case Discussion Methodology
64	24 - 26 November 2020	International Webinar on Mahakavi Dr. Umar Alisha Sahityam - Ouoadesikatvam
65	27 November 2020	International Seminar on Research Issues in Internet of Things
66	28 November 2020	Webinar Series on Intellectual Property Rights in Academic and Research
67	09 December 2020	Webinar on Impact of Spitting on Covid - 19
68	10 December 2020	National Webinar on Trends and Techniques in Biodiversity Assessments
69	15 December 2020	Webinar on Cancer Awareness and Healthy Lifestyle
70	16 - 18 December 2020	International E-Conference on Challenges of Virtual Teaching for students from Tribal Areas
71	22 December 2020	National Webinar on Recent Advances in Mathematical Sciences
72	30 December 2020	One Day Webinar on Career Guidance
73	06 & 07 January 2021	A Two-Day National Webinar on Emerging Trends in Mathematical Sciences and Engineering Applications
74	03 February 2021	FDP on Advances in Nanomaterials and single Crystals for practical Device Applications
75	09 February 2021	A National Webinar on Women Security Policies in India
76	17 February 2021	A One-Day National Webinar on Innovation Aspects for Materials Science & Engineering with Reference to Intellectual Property Rights
77	03 March 2021	National Workshop on Power of Positive Psychology
78	26 & 27 April 2021	Two Day National Webinar on Development of Play and Social Skills in Children with ASD with NIEPMRD/RCI Accredited CRE Points Available
79	11 & 12 May 2021	Two-Day National CRE Webinar on Research in Disability Rehabilitation RCI-CRE Status Accredited
80	19 May 2021	National Webinar on Covid-19 Treatment and Salvation of Doubts
81	22 May 2021	One Day Webinar on Sustainable Foods for Healthy People and Healthy Planet
82	03 June 2021	A Webinar on Future Skills for Employability
83	05 June 2021	Webinar on Ecosystem Restoration
84	13 June 2021	Webinar on Machine Learning - The Skills of Alexa

85	17 June 2021	Webinar on Recent Trends in Metabolic Disorders: An Epigenetic Approach
86	18 June 2021	National Webinar on Vaccines, Medicines and Natural Products: Fight against COVID 19
87	21 June 2021	National Webinar on Anthropogenic Impact on Biodiversity and Health Challenges
88	21 June 2021	COVID-19 Yoga in Health Care
89	22 June 2021	National Webinar on COIVD-19 : Impact on Aquaculture Practices
90	25 June 2021	National Webinar on Opportunities of Research Funding and Techniques of Effective Writing of Research Proposals and Scientific Publications
91	26 June 2021	Virtual Symposium on English Language Skills and Contemporary Indian Writing in English
92	28 June 2021	Webinar on Opportunities for Capacity Building and International Networking
93	03 July 2021	National Webinar on Researches on Topics Related to Biology-Chemistry Interface Some Case Studies
94	06 July 2021	One Day Webinar on Pandemics: The perils of Animal Agriculture
95	07 July 2021	Webinar on Design of Research Process in Social Sciences
96	09 July 2021	Webinar on Cyber Crime - Apprehension and Awareness in the time of Corona
97	10 July 2021	Absolute Dockers,Kubernetes,CP4D - A Journey towards Cloud Platforms
98	26 July – 30 July 2021	Blockchain Applications Usecases & Opportunities – 5 Day Immersive FDP

ANNEXURE III

Links to Google Drive:

Document/ Report	Google Drive Link
Achievements Report	https://drive.google.com/file/d/1wwWPmD_gPl1bnW7Zx1C5ONnPXLkXFgZb/view?usp=share_link
VC Speaks – Messages by the Vice Chancellor	https://drive.google.com/file/d/1cR6ozBuUNxNM03Qpm6X6-ykgwxANXkMt/view?usp=share_link