



GOVERNMENT OF KARNATAKA  
VISION GROUP ON SCIENCE AND TECHNOLOGY  
Karnataka Science and Technology Promotion Society  
Department of Electronics, Information Technology, Biotechnology and  
Science & Technology

Application No. VRN/003641/23-24

Faculty Development Program (FDP)

1	Title of the Programme (FDP)	Recent Advances in Disaster Risk Management
a)	Subject area as per instruction (Please refer serial No.26 under Annexure-II)	Civil Engineering
b)	Subject category area	Geotechnical, structural, GIS, Risk Management,
2	Name and Address of the College/Institute	K.S. SCHOOL OF ENGINEERING AND MANAGEMENT Address : #15/1, MALLASANDRA, OFF KANAKAPURA ROAD , BENGALURU , Bangalore North , Bangalore - 560063
a)	Type of Institution	Private Institution
b)	College/Institute Email Id:	principal@kssem.edu.in
c)	Website	www.kssem.edu.in
d)	College/Institute Landline Number	080-28425012
3	Name of the Principal Investigator (PI)	Dr. AREKAL VIJAY
a)	Highest Qualified Degree	Ph.D. degree in Science, Mathematics and Engineering
b)	Gender	Male
c)	DOB	23/03/1968
d)	Age	56
e)	Designation & Department	Professor ( Civil Engineering )
f)	Years of Teaching/Research/Industry Experience	Teaching : 15.00 ; Research : 10.00
g)	Email ID	arekal.vijay@kssem.edu.in
h)	Alternate Email ID	arekalvijay@gmail.com
i)	Cell Number / Alternate Cell Number	9663590628 /
j)	Residential Address	115, 4th Main, 3rd Cross, JHBCS Layout, Gubbalala, Bengaluru 560061
k)	Ph.D Degree holder	Yes

4	Name of the Co-Principal Investigator(Co-PI)	Mr. Shashi Prasad N
a)	Highest Qualified Degree	M.Tech. in Engineering with at least 5 years of Experience
b)	Gender	Male
c)	DOB	25/05/1991
d)	Age	32
e)	Designation & Department	Civil Engineering ( Assistant Professor )
f)	Institution Name	K S School of Engineering and Management
g)	Year of Teaching/Research/Industry Experience	Teaching : 9.00 ; Research : 1.00
h)	Email ID	shashiprasad@kssem.edu.in
i)	Alternate Email ID	shashiprasad700@gmail.com
j)	Cell Number / Alternate Cell Number	9632081005 /
k)	Residential Address	Door No 302, 3rd Floor, Sri Krishna Residency, 14th Main, JP Nagar 7th Phase, Bengaluru-560078

5	Designation of the Head of the Institution	Principal
6	If Your Proposal is selected, the Cheque/DD to be written in favour of	K S School of Engineering and Management
	Whether the project involves collaboration with research institution / industry? If yes , please enclose a letter to this effect	No

7 Please provide the bank account details for which the amount to be credited

a)	Name of the Account holder	K S School of Engineering and Management
b)	Name of the Bank	AXIS Bank
c)	IFS code	UTIB0001513
d)	SB A/c Number	911010055761116
e)	The Branch Address	75/A, 100-Ft-Ring Road, 6th,Phase, J P Nagar, Bengaluru 560078

8		DETAILS OF THE FACULTY DEVELOPMENT PROGRAMME (FDP):
a)	Title of the Programme	Recent Advances in Disaster Risk Management
b)	Keywords	disaster, risk, landslide, flood, earthquake, fire
c)	Objectives of the Programme	<ol style="list-style-type: none"> <li>1. Enhance Faculty's Understanding of Disaster Risk Management</li> <li>2. Promote Integration of Disaster Risk Management into Teaching</li> <li>3. Develop Faculty's Skills in Facilitating Interdisciplinary Collaboration</li> <li>4. Cultivate a Community of Practice</li> </ol>
d)	Relevance of the Programme/Topic	The proposed faculty development program aims to enhance engineering faculty members' expertise in disaster risk management. This will enable them to inspire and guide future engineers in mitigating the effects of disaster risks. Through well-designed content, interactive sessions, and collaborative projects, faculty members can develop and refine their skills in integrating disaster risk management principles, tools, and methodologies in their teaching and research. By fostering a risk management culture and encouraging interdisciplinary collaboration, we can create an environment that motivates students to adopt a broader, multidisciplinary approach to addressing societal and environmental challenges rather than just focusing on technical problem-solving
e)	Background of the Programme with respect to teaching methodology/Research	This program will benefit faculty members by enhancing their professional development and pedagogical techniques. It will also positively impact the engineering curriculum, research, and student outcomes. Under the guidance of experts in disaster risk management, faculty participants in this program will engage in active learning experiences, share best practices, and develop strategies for embedding disaster risk management into their teaching and research activities. By leveraging their disciplinary expertise and integrating disaster risk management principles, faculty members can empower students to become responsible engineers.
f)	Similar Events organised by the Institute on this subject, if any	A two day National Seminar on "Probabilistic Prediction of Earthquakes and Sustainability of Heritage Structures under Seismic Activity"
g)	Please provide list of Resource persons with details.	<p>1) Dr Madhavi Latha, Professor, Department of Civil Engineering, Indian Institute of Science, Bangalore Contact: +91 9886050600 Email: madhavi@iisc.ac.in</p> <p>Expertise: She is a renowned professor specializing in Earthquake geotechnical engineering, slope stability analysis, and rock engineering. Prof Madhavi is actively involved in research consultancy and has carried out many projects funded by various government agencies.</p> <p>2) Dr STG Raghukanth, Professor Department of Civil Engineering, Indian Institute of Technology Madras, Chennai Contact: +91 8072625728 Email: raghukanth@iitm.ac.in</p> <p>Expertise: Prof. Raghukanth's primary interests are Earthquake engineering and Engineering Seismology. He has developed Empirical and Mechanistic models for simulating earthquakes and their ground motions. He is also involved in developing the seismic zone map of India based on probabilistic seismic hazard analysis.</p> <p>3) Prof. N.K. Goel, Professor Centre of Excellence in Disaster Mitigation and Management, IIT Roorkee Contact: +91 1332-285814 Email: nkgoel@hy.iitr.ac.in</p> <p>Expertise: He specialised in Stochastic Hydrology, Extreme value estimation, Flood estimation and forecasting, modelling, Power generation projects, pipeline projects, hydrological analysis and planning, Area specific</p>

4) Dr. Amir Ali Khan,  
Associate Professor  
National Institute of Disaster Management,  
(Ministry of Home Affairs, Government of India),  
Plot no. 15, Pocket-3, Block-B, Sector-29, Rohini, Delhi  
-110042  
Contact: +91-011-20873423  
Email: amir.nidm@nic.in  
Expertise: He is trained in Urban Earthquake Risk Mitigation. Dr. Khan has served UNDP for about two years as National Disaster Reduction Advisor in Uzbekistan. His current areas of interest include capacity building for earthquake risk mitigation, especially in urban areas, post-disaster reconstruction and rehabilitation, and mainstreaming disaster risk reduction into developing and formulating disaster management plans.

5) Mr Rajat Subhra Chatterjee, Scientist' G' & Head, Director  
Geosciences & Disaster Management Studies Group Indian  
Institute of Remote Sensing (IIRS), Indian Space Research  
Organization (ISRO) Dept. of Space, Govt. of India, 4-  
Kalidas Road, Dehradun- 248001, India  
Contact: +91-135-2524156  
Email: dgdm@iirs.gov.in, gsd@iirs.gov.in  
Expertise: Mr Rajat is a senior scientist specialized in disaster management studies. He is actively involved in Microwave and Thermal Remote Sensing Applications in Geosciences and geoenvironmental Studies. Interferometric & Differential Interferometric SAR Data Analysis & Applications. Geodynamics of the Himalaya and Active Tectonics. Groundwater Depletion and Mining Land Subsidence Measurement & Modelling

6) Director  
Karnataka State Natural Disaster Monitoring Centre  
KSNDMC Campus, Major Sandeep Unnikrishnan Road,  
Near Attur Layout, Yelahanka, Bangalore  
Contact: +91 080 67355000  
Email: Director@ksndmc.orgdmc.kar@gmail.com  
Expertise: Karnataka State Natural Disaster Monitoring Centre (KSNDMC) in 2007. KSNDMC has played a significant role in Natural Disaster monitoring for more than three decades. KSNDMC has been serving as a common platform for the various stakeholders in the field of Natural Disasters and their management by providing timely, proactive & innovative Science and Technology inputs.

7) Dr. Ajinder Walia,  
Associate Professor  
National Institute of Disaster Management,  
(Ministry of Home Affairs, Government of India),  
Plot no. 15, Pocket-3, Block-B, Sector-29, Rohini, Delhi  
-110042  
Email: ajinder.nidm@nic.in  
Expertise: Dr Ajinder Walia has a doctorate in Sociology and has been working on the social aspects of Disaster Risk Reduction, focusing on Gender and Disasters, Community-Based Disaster Risk Management, Psychosocial care in Disasters, School Safety, and Development of Disaster Management Plans at the village and community level. She has also developed training modules on Gender and Disaster Management and the Development of Village Disaster Management Plans.

8) C Basavanna  
Chief Fire Officer,  
Bangalore East Zone  
Karnataka State Fire and Emergency Services  
Commissariat Road, Bangalore  
Expertise: Mr C Basavanna is a Chief Fire Officer supervising and managing a large group of fire personnel. He is also involved in training, inspection, approvals and policymaking.

h) Proposed dates for the Programme

	23/09/2024	21/10/2024	04/11/2024
i)	Additional Details of the Programme, if any		

## 10) Similar event organized by the Institute earlier, if any

S No.	Title of the activity	Subject	Date from to (latest first)	Level (Regional/National/ International)	Name of external body involved, if any	Grants received by funding agency (Rs.)
1	National Seminar on "Probabilistic Prediction of Earthquakes and Sustainability of Heritage Structures Under Seismic Activity"	Earthquake	24/02/2020 - 25/02/2020	National	SERB	150000.00
Total						150000.00

## 11) Budget Estimates

S No.	Details of Expenditure	Anticipated Expenditure (a)	Budget Contribution by Organizing Institute. (b)	External Sponsorships (Industry) (c)	Total (b+c)
1	Travel, Accommodation and Honorarium for Resource Persons	150000.00	15000.00	0.00	15000.00
2	TA & Accommodation (outstation) and Food for Participants	200000.00	20000.00	0.00	20000.00
3	Conference preparation and arrangements	50000.00	5000.00	0.00	5000.00
4	Miscellaneous	25000.00	2500.00	0.00	2500.00
Total		425000.00	42500.00	0.00	42500.00

## 12) Details of VGST/ Other Grants

a)	Received by Department in last 5 Years	
i)	Project Sanctioned to the Dept. from VGST in the last 5 years	"Dynamic Analysis and Retrofitting of Heritage Buildings in South India" 2019, KFIST L1, 481, Rs 10 Lakhs
ii)	Project Sanctioned to the Dept. from Other Agencies in the last 5 years	"Analysis of Ground Water Potential Zones using electrical Resistivity Remote Sensing and GIS Techniques" 2019, Competitive Research Grant by VTU, VTU/TEQUIP 3/2019//321, Rs 1.5 Lakhs
b)	Received by PI in last 5 years	
i)	Project Sanctioned to the PI from VGST in the last 5 years	
ii)	Project Sanctioned to the PI from Other Agencies in the last 5 years	
c)	Received by Co-PI in last 5 Years	
i)	Project Sanctioned to the Co-PI from VGST in the last 5 years	
ii)	Project Sanctioned to the Co-PI from Other Agencies in the last 5 years	

**Attached documents**

S No.	Document Type	Document Name	Document Description
1			

FDP Programme

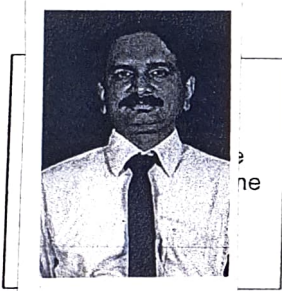
ENDORSEMENT FROM HEAD OF THE COLLEGE/INSTITUTION  
(ON THE OFFICIAL LETTERHEAD)

FDP Title      Recent Advances in Disaster Risk Management

- 1) Certify that Dr./Prof./Mr./Mrs AREKAL VIJAY is the Principal investigator and Dr./Prof./Mr./Mrs Shashi Prasad N is the Co-Principal investigator for the project. In the unforeseen and legitimate event of discontinuation by the Principal Investigator, The Co-Principal Investigator will accept/take full responsibility for completion of the project. Any change in this effect will be endorsed by me and the same will be promptly communicated to the VGST.
- 2) Certify that the laboratory and administrative facility will be made available to the Investigators throughout the duration for the successful completion of the project.
- 3) The College/Institution shall provide timely statements of expenditure and utilization certificates of the funds received under this project/scheme in the prescribed format.

Declaration


- 1) We hereby declare that the details furnished above are true to the best of our knowledge
- 2) We understand that any misinformation furnished by us will lead to the rejection of the application



  
( Dr. AREKAL VIJAY )

Signature of the  
Principal Programme  
Coordinator




  
( Mr. Shashi Prasad N )

Signature of Co-  
Principal Investigator

  
Professor & Head  
Dept. of Civil Engineering  
K.C. Group of Institutions  
(with seal)  
K.S. School of Engineering & Management  
Bangalore-560 062.

Date : 14/6/2024  
Place : Bengaluru

  
Signature of the Head  
of the Institution  
(with seal)  
**Dr. K. RAMA NARASIMHA**  
Principal/Director  
K S School of Engineering and Management  
Bengaluru - 560 109



KAMMAVARI SANGHAM (R), 1952

# K.S. School of Engineering and Management

Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi, ACCREDITED BY NAAC

#15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109

Fax : +91 80 28425164, Mob : 8884444408 / 9606055906, Website : www.kssem.edu.in

REF: KSSEM/CIV/148/2023-24

## ENDORSEMENT FROM HEAD OF THE COLLEGE/INSTITUTION (FDP Programme)

Project Title: "Recent Advances in Disaster Risk Management"

1. Certify that Dr. Arekal Vijay is the Principal Investigator and Mr. Shashi Prasad N is the Co-Principal Investigator for the project. In an unforeseen and legitimate event of discontinuation by the Principal Investigator, the Co-Principal Investigator will accept/take full responsibility for completion of the project. Any change in this effect will be endorsed by me and the same will be promptly communicated to the VGST.
2. Certify that the laboratory and administrative facility will be made available to the Investigators throughout the duration for the successful completion of the project.
3. The College/Institution shall provide timely statements of expenditure and utilization certificates of the funds received under this project/scheme in the prescribed format.

Date: 14.6.2024

*K. Ramesh* 14/6/24  
Signature of the Head of the

**Dr. K. RAMESH**  
Principal/Director

K S School of Engineering and Management  
Bengaluru - 560 109





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REF: KSSEM/CIV/149/2023-24

## INSTITUTIONAL SUPPORT FROM PRIVATE INSTITUTIONS (FDP)

1	Name of the Scheme	FDP
2	Title of the project	Recent Advances in Disaster Risk Management
3	Name of the Principal Investigator	Dr Arekal Vijay
4	Name of the Co-Principal Investigator	Mr Shashi Prasad. N
5	Sponsorship amount from the institution (In Rs.)	42,500
6	Percentage of sponsorship amount against total VGST grant by the institution	10%

Signature of PI

Signature of Co-PI

  
14/6/24

Signature of the Head  
of the Institution  
Dr. K. RAMA NARASIMHA  
Principal/Director

K S School of Engineering and Management  
Bengaluru - 560 109

Date: 14.6.2024