



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/000185/22-23**

Faculty Development Program (FDP)

1	Title of the Programme (FDP)	A FIVE DAY FACULTY DEVELOPMENT PROGRAMME ON "APPROACHES TO ENERGY EFFICIENT AND SUSTAINABLE BUILDINGS "
a)	Subject area as per instruction (Please refer serial No.26 under Annexure-II)	Civil Engineering
b)	Subject category area	Building Materials and Construction technology
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	08028425012
3	Name of the Principal Investigator (PI)	Mr. NAVEENA M P
a)	Highest Qualified Degree	M.Tech. in Engineering with at least 5 years of Experience
b)	Gender	Male
c)	DOB	12/08/1989
d)	Age	33
e)	Designation & Department	ASSISTANT PROFESSOR (CIVIL ENGINEERING)
f)	Years of Teaching/Research/Industry Experience	Teaching : 8.00 ; Research : 5.00
g)	Email ID	naveena.mp@kssem.edu.in
h)	Alternate Email ID	mpsnaveena@gmail.com
i)	Cell Number / Alternate Cell Number	9071135404 / 7349093996
j)	Residential Address	Flat No G-1, Elite Petrikor, 10th Cross Balaji Layout, Mallathahalli, Nagrabavi, Bnegaluru-560056
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	31
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 : 5.00 ; Research : 3.00
h)	Email ID	shashiprasad@kssem.edu.in
i)	Alternate Email ID	shashiprasad700@gmail.com
j)	Cell Number / Alternate Cell Number	9632081005 / 8618697237
k)	Residential Address	Door No 302, Sai Nilayam, 3rd Floor, Sri Krishna Residency, 14th Main , J P Nagar 7th Phase, Bengaluru-560078
5	Designation of the Head of the Institution	Principal/ Director
6	If Your Proposal is selected, the Cheque/DD to be written in favour of	Principal/ Director, 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	Yes
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	J P Nagar 6th Phase, Bengaluru-560078

8	DETAILS OF THE FACULTY DEVELOPMENT PROGRAMME (FDP):	
a)	Title of the Programme	A FIVE DAY FACULTY DEVELOPMENT PROGRAMME ON "APPROACHES TO ENERGY EFFICIENT AND SUSTAINABLE BUILDINGS "
b)	Keywords	1.Energy Efficiency Design 2.Green Architecture 3.Vernacular Architecture 4..Energy Simulation 5.Sustainable Materials and Technologies
c)	Objectives of the Programme	1. To Understand the Importance of Energy Efficient Design and Green Architecture for Vernacular and Contemporary Buildings. 2. To Explore the Existing Energy Efficient Materials and the Current Rating Systems of Green Buildings. 3. To Study the Construction Practices of Vernacular and Modern Buildings with Emphasis on the Energy Efficiency of these Buildings. 4. To Estimate the Relative Energy Performance with Hands on Experience in e-QUEST (Quick Energy Simulation Tool) Energy Modelling Software. 5. To visit Green Buildings as a Case Study.
d)	Relevance of the Programme/Topic	1. To sensitize the stakeholder on the importance of traditional and modern Buildings in terms of Energy efficiency design, materials, and construction practices. 2. To understand the theory and practical implementation of energy performance and green building rating system. 3. To create awareness on green architecture and energy efficient design concepts, for working practitioners. This programme encourages professionals to develop new building design concepts keeping in mind the social environment and economics aspects of sustainability.
e)	Background of the Programme with respect to teaching methodology/Research	1. Large amount of Carbon-di-oxide emissions are due to the building Industry. To minimize this emissions it is necessary to adopt new Designs and Technologies. 2. This Programme helps to create awareness about the significance of well designed building envelope. This may be achieved through pedagogy by initiating sustainable ideas of Design and at Constructions. 3. This Programme aims to train and sensitize the faculty of Architecture and Civil Engineering to meet the demands who in turn train students for a sustainable tomorrow. 4. The purpose of FDP is to provide a better understanding of various Techniques of Energy Efficient Design, Materials, Green Architecture , Construction Practice and Rating Systems.
f)	Similar Events organised by the Institute on this subject, if any	1. Probabilistic Prediction of Earthquakes and Sustainability of Heritage Structures under High Seismic Activity (SERB-2020) 2. Performance of Climatic Responsive Buildings- A Qualitative and Quantitative Approach (SERB-2022) 3.A One Day National Conference on "Emerging Trends in Sustainable Built Environment" (NCESBE-2023)
g)	Please provide list of Resource persons with details.	1. Prof. K.S.Jagadish, Formerly Professor, Department of Civil Engineering, IISc (Bengaluru) 2. Prof. Monto Mani, Professor, Centre for Sustainable Technologies, IISc (Bengaluru) 3. Dr. J K Nayak, Professor Emeritus, Department of Energy Science and Engineering, IIT (Bombay) 4. Dr. Vishal Garg, Professor, Dean of Academics & Research, Plaksha University (Punjab) 5. Dr.Yogananda M R, Founder, Mrinmayee Consultant, (Bengaluru) 6. Ar.Sanjay Mohe, Principal Architect, Mindspace Architects, (Bengaluru) 7. Ajay, Software Development Manager, Building Automation Division, Honeywell, (Bengaluru) 8. Nandana Kumar (General Manager) and Abhilash B L (Senior Engineer), LEAD Consultancy and Engineering Services (India) Pvt Ltd, (Bengaluru) 9 Ar.Anup Naik, Co-Founder & Director, Space Matrix Group Company, (Bengaluru) 10. Ar.Sathya Prakash Varanashi, Professor, K S School of Architecture (Bengaluru)

Proposed dates for the Programme		
	11/09/2023	09/10/2023
		16/10/2023
i)	Additional Details of the Programme, if any	<p>1. Five day programme will be conducted in KSSEM Campus. This program is useful for the Architecture and Civil Engineering academicians, researchers and industry personnel to understand Energy efficiency design, Green Architecture construction methods, so that future engineers know about regulations and policies to develop eco-friendly technologies.</p> <p>2. As a part of FDP, hands-on training on energy simulation software and site visits will be arranged to green buildings, to enhance the practices of sustainable technologies to the stakeholders.</p>

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	Emerging Trends in Sustainable Built Environment	A One Day National Conference	03/02/2023 - 03/02/2023	National	1. Indian Society for Technical Education (ISTE) 2. Sathish's Swanlines 3. Ashwath Narayana Constructions 4. Sree Shobha Concretes	35000.00
2	Performance of Climatic Responsive Buildings-A Qualitative and Quantitative Approach	A Two Day National Seminar	10/06/2022 - 11/06/2022	National	Science and Engineering Research Board (SERB)	150000.00
3	Probabilistic Prediction of Earthquakes and Sustainability of Heritage Structures under Seismic Activity	A Two Day National Seminar	24/02/2020 - 25/02/2020	National	Science and Engineering Research Board (SERB)	50000.00
Total						235000.00

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	130000.00	0.00	0.00	0.00
2	TA & Accommodation (outstation) and Food for Participants	60000.00	50000.00	0.00	50000.00
3	Conference preparation and arrangements	50000.00	0.00	0.00	0.00
4	Miscellaneous	10000.00	0.00	0.00	0.00
Total		250000.00	50000.00	0.00	50000.00

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	Nil
ii)	Project Sanctioned to the Dept. from Other Agencied in the last 5 years	1. Science and Engineering Research Board, 2020, Rs 50,000 2. Science and Engineering Research Board, 2022, Rs 1,50,000 3. Science and Engineering Research Board, 2023, Rs 1,10,000
b)	Recieved by PI in last 5 years	
i)	Project Sanctioned to the PI from VGST in the last 5 years	Nil
ii)	Project Sanctioned to the PI from Other Agencies in the last 5 years	Science and Engineering Research Board, 2022, Rs 1,50,000
c)	Received by Co-PI in last 5 Years	
i)	Project Sanctioned to the Co-PI from VGST in the last 5 years	Nil
ii)	Project Sanctioned to the Co-PI from Other Agencies in the last 5 years	Nil

Attached documents

S No.	Document Type	Document Name	Document Description
1	Highest Qualified Degree Certificate	NAVEENA M P AND SHASHIPRASAD N CV DEGREE CERTIFICATE.pdf	PI & CO-PI _CV_DEGREE CERTIFICATE
2	Experience Certificate (For MTech)	NAVEENA M P AND SHASHIPRASAD N EXPERIENCE CERTIFICATE.pdf	PI & CO-PI _CV_EXPERIENCE CERTIFICATE
3	PAN Card Copy	NAVEENA M P AND SHASHIPRASAD N PAN CARD.pdf	PI & CO-PI _CV_PAN CARD
4	Duly Signed & Scanned Copy of Application Form	NAVEENA M P AND SHASHIPRASAD N Duly Signed & Scanned Copy of Application Form.pdf	PI & CO-PI_Duly Signed & Scanned Copy of Application Form
5	Duly Signed & Scanned Copy of Endorsement from the Head of the College/Institution	NAVEENA M P AND SHASHIPRASAD N Duly Signed & Scanned Copy of Endorsement from the Head of the College.pdf	PI & CO-PI_Duly Signed & Scanned Copy of Endorsement from the Head of the College/ Institution
6	Others	NAVEENA M P AND SHASHIPRASAD N Institutional Support.pdf	Institutional will support for food and transportation facilities for the delegates.
7	Others	NAVEENA M P AND SHASHIPRASAD N PUBLICATIONS.pdf	PI & CO-PI_List of Research Papers Published
8	Others	Format for Collaboration FDP_KSSEM_CIVIL ENGG.pdf	Format for Collaboration WITH LEAD CONSULTANCY AND ENGINEERING SERVICE (INDIA) PRIVATE LIMITED

Details Of Industrial Collaboration

a) Name of the Industry	LEAD CONSULTANCY AND ENGINEERING (INDIA) PRIVATE LIMITED
b) Type of Industry	MEP & GREEN BUILDING SERVICES
c) Postal Address of the Industry	No: 2729, 1stFloor, 80 Feet Rd, 3rd Stage, Indiranagar, Bengaluru, Karnataka 560038
d) Industry Email ID	nandana.dk@lcsind.org
e) Website	www.lcsind.org
f) Landline Number	080-42980111
g) Contact person (1)	
	Ms. NANDANA D KUMAR
	GENERAL MANAGER- SUSTAINABLE DESIGNS
	1. Green Building Facilitation 2. Energy Simulation Expert 3. Third Party Building Commissioning
Contact person (2)	
h) Financial Commitment if any	NIL
i) Role of the Industrial Collaboration in the programme/project	TECHNICAL TRAINING



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, www.kssem.edu.in

Fax : +91 80 28425164, Mob : 8884444408 / 9606055906

REF: KSSEM/CIV/035/2022-23

DATE: 25/04/2023

FDP Title

A FIVE DAY FACULTY DEVELOPMENT PROGRAMME ON "APPROACHES TO ENERGY EFFICIENT AND SUSTAINABLE BUILDINGS"

- 1) Certify that Mr. NAVEENA M P is the Principal investigator and Mr. 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



(Mr. NAVEENA M P)

Signature of the
Principal Programme
Coordinator



(Mr. SHASHI PRASAD N)

Signature of Co-
Principal Investigator

Professor & Head
Signature of Head of
Department
K.S. School of Engineering & Management
Bengaluru - 560 062

Date: 26/4/2023
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



KSSEM
Kannada School of Engineering and Management

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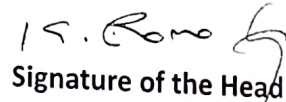
REF: KSSEM/CIV/033/2022-23

DATE:25/04/2023

1	Name of the Scheme	Faculty Development Programme
2	Title of the project	A FIVE DAY FACULTY DEVELOPMENT PROGRAMME ON "APPROACHES TO ENERGY EFFICIENT AND SUSTAINABLE BUILDINGS "
3	Name of the Principal Investigator	Mr. NAVEENA M P
4	Name of the Co-Principal Investigator	Mr. SHASHI PRASAD N
5	Sponsorship amount from the institution (In Rs.)	Rs. 50,000/-
6	Percentage of sponsorship amount against total VGST grant by the institution	17%


Signature of PI


Signature of Co-PI


Signature of the Head
of the Institution

Dr. K. RAMA NARASIMHA
Principal/Director

K S School of Engineering and Management
Bengaluru - 560 109

Date: 26.04.2023



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K.S. School of Engineering and Management

Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi

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REF: KSSEM/CIV/034/2022-23

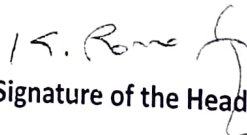
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2. Certify that the laboratory and administrative facility will be made available to the Investigators throughout the duration for the successful completion of the project.
3. The College/Institution shall provide timely statements of expenditure and utilization certificates of the funds received under this project/scheme in the prescribed format.

Date: 26. 04. 2023


Signature of the Head of the

Institution
Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109