

KARNATAKA STATE NATURAL DISASTER MONITORING CENTRE
MAJOR SANDEEP UNNIKRISHNAN ROAD, NEAR ATTUR LAYOUT,
YELAHANKA, BENGALURU – 560 064

Policy for Students Internship/Dissertation Scheme

The Karnataka state is prone to different kinds of natural hazards (disasters) such as droughts, floods, cyclones, hailstorms, landslides and earthquakes. Successive droughts and drought like situations are a regular phenomenon in the state. KSNDMC has been serving as a common platform to the various response players in the field of Natural Disaster Management by providing timely proactive Science and Technology inputs.

1. Objective of the scheme:

The objective of the Scheme is to provide Internship/Dissertation programme in KSNDMC for the students of reputed educational institutions to pursue their Project work to be submitted. The candidates are supposed to analyse various data and information available in the Centre and deduce their findings therefrom. Some of the findings/ ideas generated which are of good value and implementable, may incidentally added to disaster management strategies. The internship programme will provide the interns with an excellent opportunity to familiarize themselves with the applications of Remote Sensing (RS) and GIS in natural disaster management.

2. Eligibility:

The candidates should be final year students of BSc/BE/B. Tech or continuing M.Sc. /M.Tech /M.Sc (Tech) in any of the fields (mentioned in Annexure I). The intern should have an excellent academic track-record and should preferably be from a Centre/Institution of excellence.

3. Domain areas for Internship:

1. Natural Disaster Monitoring, Drought, Flood Cyclone, Heat Wave, Hailstorm, Lighting, Landslide and earthquake etc.
2. Preparation of Disaster Management Plans
3. Hazard Risk Vulnerability Analysis
4. Weather forecasting and dissemination techniques

4. Other salient features of the Scheme:

- a) **Duration** – Until completion of the assigned Project.
- b) **Logistics**- Interns have to bring in their own Lap-top/computer for working. In exceptional cases, Lap-top if available will be provided by KSNDMC.
- c) **Adherence to Rules of KSNDMC**- Candidates Selected and joined the internship shall strictly adhere to the rules, regulations, timings of KSNDMC.
- d) **Confidentiality of information**: Interns on selection, have to furnish an undertaking to KSNDMC to the effect that the data and information of the centre would be kept confidential and used only for their Project Report purposes and will not be used for any other purposes or parted with to others.
- e) **Termination**- Apprenticeship can be terminated by KSNDMC at any time during the apprenticeship period without any notice or assigning any reasons therefor.
- f) **Mentor**- Candidates would be attached to a mentor to guide in the subject matter.
- g) **Submission of Report**- Intern shall be required to submit a brief paper/report at the end of their assignment.
- h) **Certificate**- On successful completion of internship and on submission of Report / Paper and its evaluation by the Director, the candidate would be issued with a certificate for having undergone the internship.

5. Procedure for application

Interested students pursuing specified course of studies at any recognized Universities/Institutions may send their applications, along with their CVs, in the enclosed format (Annexure-II) through Email, to dmc.kar@gmail.com. The candidates are required to be sponsored by the Institution of his/her study. KSNDMC may also accept individual requests for internships of the students.

6. Selection Procedure and related modalities

- a) Applications received will be classified according to the course of study pursued, Institute/University domain area, etc.
- b) Applications complete in all respect shall be placed before Selection Committee constituted by Director, KSNDMC.
- c) Applications will be scrutinized by Selection Committee and shortlisted as per the academic record of the candidates. Interviews would be conducted in person or online to evaluates candidates' knowledge and interest in the subject. Selection committee selects the candidates.
- d) The decision of the Selection Committee shall be final and binding and no queries shall be entertained after the completion of the selection process.
- e) On completion of the selection process, candidates selected will be informed of their selection and asked to join the internship on a specified date.

7. Accommodation- Selected interns have to make their own arrangements for stay and transport to and fro office.

8. Stipend- KSNDMC may pay nominal lumpsum stipend to the Interns for meeting their normal living expenses.



Director
KSNDMC

Fields of Study

BSc/BE/ B. Tech.	Agriculture, Electronics, Computer Science and Civil
M.Sc./M.Tech/M. Sc. (Tech)	Disaster Management, Agriculture, Hydrology, Applied Geology, Geography, Geoinformatics, Geospatial, Environmental Science, Remote Sensing & GIS, Agriculture, Electronics, Computer Science, Statistics, Mathematics, and Data Analytics

Key Research Areas:

- Analysing and studying the heat indexes for Karnataka state.
- Developing spatial, graphical and tabulated visualization system for the weather data.
- Developing weather forecast models and spatial visualization system for weather forecast.
- Landslide susceptible/vulnerability mapping in Karnataka using RS and GIS.
- Analysis of local earthquakes in Karnataka.
- Information Technology for Natural Disasters Management.
- Agriculture crop yield forecasting and Crop water budgeting.
- Land use and Land Cover Analysis.
- Forest and Vegetation.
- Water Resources Assessment, Development and Management of surface & Groundwater.
- Flood/Drought Management.
- Drought mitigation and early warning.
- Agricultural Drought Monitoring and Assessment.
- Forest Fire Monitoring.
- Sustainable Water Resources Management in Karnataka.
- Analysis of ground water drought index.
- Identification of potential groundwater zones & recharge zones.
- Identification of artificial recharge zones using GIS and RS.
- Estimation of trend and periodicity of rainfall.
- Case study of interaction between surface water and groundwater.
- Impact of urban LULC on urban floods.
- Extreme weather and Urban floods.
- Urban Heat Island study and analysis.
- Modelling on the spatial vulnerability of lightning disaster in Karnataka.
- Natural disaster early warning system in Karnataka.

Annexure-II

PROFORMA OF APPLICATION FOR INTERNSHIP/DISSERTATION IN KSNDMC

Name :

Nationality :

Address for correspondence :

Contact No. :

E-mail address :

Date of Birth :

Educational Qualification (Starting from Matriculation onwards) :

Sl.	Name of	Examination	Year of	Division obtained	
No.	Board/University/Institute	Passed	Passing	with percentage	Subjects
...	...	...	...	...	...

Course presently pursuing, the University/Institute and its duration :

Period during which internship is required :

Names of two References from the present Institute or the Institute (s) last attended :

Extracurricular activities :

Projects undertaken, if any :

Why do you want to join this internship/Dissertation (in brief not exceeding 50 words) :

I certify that the above information furnished by me is true to the best of my knowledge
and belief :

Place: ...

(Signature)

Date: ...

(Name)

Authentication of particulars furnished above by the Institute/University

This is to certify that the information furnished by Mr./Ms.in the application form above is correct to the best of our knowledge.

Recommendations

(Signature and seal of authorized official)

The Applications should carry following documents

1. Copies of Mark sheets/Certificates for academic activities
2. Copy of Photo-ID card, issued by the institute
3. Letter from their supervisor/Head of Department/Principal indicating their status in the institution and also conveying "No Objection" for allowing their student to undergo internship/Dissertation programme for the period for which she/he is selected.
4. Character Certificate from Head of their Institutions/Department/Guide

