

## **Report on Hands-on Training Program on Free and Open Source Geospatial (FOSS4G) Tools - 2020**

**Date:** August 16-17, 2020

**Participants:** 60 students

**Organizer:** Gujarat Council on Science & Technology, Department of Science and Technology

The Hands-on Training Program on Free and Open Source Geospatial (FOSS4G) Tools, conducted on August 16-17, 2020, by the Gujarat Council on Science & Technology, exemplifies the organization's commitment to fostering technological proficiency among students. This initiative aimed to provide participants with practical expertise in geospatial tools, enhancing their understanding of open-source applications in the field.

### **Objectives:**

1. **Practical Expertise:** To equip students with hands-on experience in utilizing Free and Open Source Geospatial Tools.
2. **Nuanced Understanding:** To foster a nuanced understanding of open-source applications in the interdisciplinary field of geospatial sciences.
3. **Skills Development:** To impart essential skills that prepare participants for contemporary challenges in geospatial sciences.

### **Participants:**

A total of 60 students participated in the training program. The diverse group included students from various academic backgrounds, united by a common interest in geospatial technologies.

### **Program Highlights:**

1. **Dynamic Hands-on Learning:** The program adopted a dynamic and interactive approach to learning, providing participants with practical, hands-on experience with FOSS4G tools. This methodology aimed to bridge the gap between theoretical knowledge and real-world application.

2. **In-Depth Sessions:** Expert instructors conducted in-depth sessions on the principles and applications of Free and Open Source Geospatial Tools. Topics covered included Geographic Information System (GIS), spatial data analysis, and cartography.

3. **Case Studies and Practical Exercises:** The training included real-world case studies and practical exercises, allowing participants to apply their newfound knowledge to solve actual geospatial challenges.

4. **Interactive Discussions:** Participants engaged in interactive discussions, fostering a collaborative learning environment. This encouraged the exchange of ideas and experiences among the diverse group of students.

### **Outcomes:**

1. **Enhanced Skills:** Participants developed practical skills in using FOSS4G tools, enhancing their competence in geospatial sciences.

2. **Increased Awareness:** The training program increased awareness among students about the importance and applications of open-source geospatial technologies.

3. **Networking Opportunities:** Participants had the opportunity to network with experts in the field, opening avenues for future collaborations and learning.

### **Conclusion:**

The Hands-on Training Program on FOSS4G Tools organized by the Gujarat Council on Science & Technology was a commendable initiative that contributed significantly to the technological proficiency of participating students. By providing hands-on experience and in-depth knowledge, the program succeeded in preparing students for the challenges of the interdisciplinary field of geospatial sciences.

**Photographs:**






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