

One Week Short Term Training Programme Report

on

“Application of remote sensing and GIS”

Programme Title & Code: Application of remote sensing and GIS (SSGP_23_2)

Training Duration: 30/10/2023 to 04/11/2023

Training Coordinator: Shri. D. C. Rajput, Lecturer in Civil Engg., Dr. S. & S. S. Ghandhy College of Engineering & Technology, Surat – 395001, M- 9512745566, email-dipeshrajput3000@gmail.com

Training Co-Coordinator: Shri. N. G. Mahajan, Lecturer in Civil Engg., Dr. S. & S. S. Ghandhy College of Engineering & Technology, Surat – 395001, M- 9904845085, email-nitendra.mahajan@gmail.com

No. of Participants: 26 Nos.

STTP Brochure & Schedule –

<div data-bbox="228 869 537 919">ABOUT THE INSTITUTE</div> <p>Dr. S. and S. S. Ghandhy College of Engineering & Technology is situated in Surat, the second largest city of Gujarat State. This Institute is one of the oldest and Premier Technical Institution of Gujarat. It was established in June 1955. The College offer full time Diploma Engineering courses to educate young talent in the field of Civil Engineering, Mechanical Engineering, Electrical Engineering, Automobile Engineering, Information Technology, Power Electronics, Metallurgy, Textile Processing Technology and Textile Manufacturing Technology. Four new demand driven courses Computer Engg., ICT, Automation & Robotics and Mechanical (CAD CAM) The donor Late DR. SAROSH SORABJI GHANDHY, A local ZORASTRIAN Medical Practitioner, was the Prime Driving Force behind the establishment of this Institute, who donated Rs.0.52 Million in the year of 1952.</p> <div data-bbox="228 1367 537 1417">ABOUT THE DEPARTMENT</div> <p>The Department of Civil Engineering has been functioning since 1955. The Department offer full time diploma course in civil engineering. The present student intake of the department is 150 in two division. Department consist of various laboratories like surveying, transportation engineering, Fluid Mechanics, environmental engineering and computer. The department is affiliated under Gujarat Technological University.</p> <div data-bbox="228 1633 537 1684">COURSE OBJECTIVES</div> <p>The objective of the short term course is to give an overview of the application potentials for Remote Sensing and GIS technologies. The courses will provide knowledge to the professionals of various</p>	<p>fields working under different Government Departments/Organizations to apply these technologies in their respective fields and to facilitate the faculty members from academic institutions to impart better quality teaching on Remote Sensing & GIS at undergraduate, post-graduate and research levels.</p> <div data-bbox="662 1052 1024 1102">COURSE STRUCTURE</div> <p>The content may be used for the teaching – learning process. Technical experts from renowned Organizations as well as field expert would be delivering talks in the sessions for technical discussions, case studies.</p> <div data-bbox="662 1251 1024 1302">TOPICS TO BE COVERED</div> <p>The course will enable the participants upgrade their knowledge on various key aspects of Civil Engineering including.</p> <ol style="list-style-type: none">1) Principles of Remote Sensing, Digital Image Processing and Global Positioning System.2) Principles of Geographic Information System (GIS)3) Various application areas of Geo-informatics4) Practical on Geographic Information System (GIS)5) Practical on Applications of Geo-informatics (including case studies of various fields). <div data-bbox="699 1602 997 1652">ELIGIBILITY</div> <p>The Participant must be either a faculty members or research scholars or PG Scholar of the AICTE approved institutions and participants from Govt., Industry (Bureaucrats/Technicians/Participants) from Industry etc.).</p>	<div data-bbox="1101 869 1534 1102"><p>One - Week Short Term Training Programme (STTP) On “APPLICATION OF REMOTE SENSING & GIS” (30th October – 4th November, 2023)</p></div> <div data-bbox="1133 1129 1474 1234"></div> <div data-bbox="1187 1241 1425 1451"><p>Co-ordinator Prof. Dipesh C. Rajput Co-Cordinator Prof. N. G. Mahajan</p></div> <div data-bbox="1101 1493 1534 1787"><p>Organized By:- Civil Engineering Department Dr. S. & S. S. Ghandhy College of Engg. & Tech., Surat Sponsored By:- DTE, Alumni Association SSGP Surat & Valour Engineers & contractor</p></div>
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REGISTRATION

The registration fees for participants are as follow:

Participants	Amount
UG/PG Students, Research Scholars	1800
Faculty Members from Academic Institute	2000
Professionals	4000

The Payment is to be made by Cash or DD/Cheque drawn in favour of Principal, Dr. S. & S. S. Ghandhy College of Engineering & Technology, Surat.

RESOURCE PERSONS

Experts will be from NITs, Reputed Research Institute and Industries.

IMPORTANT INSTRUCTIONS

- Last date of registration (Complete registration: 20/10/2023)
- Display list of selected participants: 21/10/2023
- A certificate will be awarded to the participants on successful participation at the completion of the STTP.
- Accommodation shall be managed by Candidates.
- The number of participants is limited to 30 based on first come first serve.
- Participants must bring their laptop.

VENUE

First floor, Seminar hall, Admin building, Dr. S. & S. S. Ghandhy College of Engg. & Tech., Surat

PATRON

Dr. P. P. Kotak
(Principal, SSGP, Surat)

CONVENER

Prof. D. P. Rao
(HOD, Civil Engg. Dept., SSGP, Surat)

CO-ORDINATORS

Prof. D. C. Rajput
(Lecturer, Civil Engg. Dept., SSGP, Surat)

CO-COORDINATORS

Prof. N. G. Mahajan
(Lecturer, Civil Engg. Dept., SSGP, Surat)

COMMITTEE MEMBERS

Prof. S. C. Patel
Prof. V. S. Rajput
Prof. M. G. Shaikh
Prof. S. V. Nimavat
Prof. D. G. Jinjala
Prof. R. D. Goswami
Prof. N. K. Ribinwala
Prof. V. J. Vadiwala

ADDRESS FOR COMMUNICATION

The Registration form may be sent to:
Prof. Dipesh C. Rajput / Prof. N. G. Mahajan
Civil Engineering Department,
Dr. S. & S. S. Ghandhy College of Engg. & Tech.,
Surat - 395001
Mob: - +91 95127 45566/+91 99048 45085
Email: dipeshrajput3000@gmail.com.

Important Dates
Last date for Receipt of Application
20-10-2023

REGISTRATION FORM

One-Week Short Term Training Programme

On "APPLICATION OF REMOTE SENSING & GIS"

30th October – 4th November, 2023

- Full Name:
- Qualification:
- Designation:
- Experience
- Department and Institution/Industry with Address:

- Contact Details:
i. Mobile Number:
- Email Id:

Date: Sign:

7. Gender: Male/Female

Certificate

This is to certify that _____
_____ is a student/employee of
our institute and is permitted to attend One-Week
STTP on RS & GIS – 2023 to be held at SSGP, Surat
during 30th October – 03rd November, 2023.

Signature of authority with official seal



Annexure-I Detailed Program Schedule ONE WEEK SHORT TERM TRAINING PROGRAMME "Application of Remote sensing and GIS"

During 30th October to 4th November 2023

Organized by Civil Engineering Department, Dr. S. & S. S. Ghandhy College of Engineering & Technology, Surat



Date & Day Time	30/10/2023 Monday	01/11/2023 Wednesday	02/11/2023 Thursday	03/11/2023 Friday	04/11/2023 Saturday
10:00 – 11:30	<ul style="list-style-type: none"> Registration. Inaugural Function. Program Brief. Expectations Prof. Dipesh C. Rajput Lecturer, CED, SSGP, Surat	Integrated Approach for Groundwater Potential Mapping Using MIF & Geospatial Technique Prof. Dipesh C. Rajput Lecturer, CED, SSGP, Surat	Application of UAV data in Road Safety: Integration with Advanced Technology Dr. Ashish Dhamaniya Associate Professor CED, SVNIT, Surat	Brief Introduction of GIS Cell, Surat Municipal Corporation & VISIT	Task-5: Find the geometrical area of map. Prof. Dipesh C. Rajput Lecturer, CED, SSGP, Surat
11:30 – 11:45	Tea-Break	Tea-Break	Tea-Break	Tea-Break	Tea-Break
11:45 – 1:15	Principles of Geospatial Techniques & GIS Dr. P. G. Agnihotri Professor CED, SVNIT, Surat	Principles of Remote Sensing and Digital Image Processing Dr. P. G. Agnihotri Professor CED, SVNIT, Surat	Field Study: UAV Data Collection, Extraction & Application Dr. Ashish Dhamaniya Associate Professor CED, SVNIT, Surat	VISIT	Vehicle Detection & Tracking using Computer Vision Shri. Rajesh Chouhan CED, SVNIT, Surat
1:15 – 2:15	Lunch	Lunch	Lunch	Lunch	Lunch
2:15 – 3:45	Application of Geospatial Technology in Urban Planning Dr. R. M. Tailor Assistant Professor CED, SVNIT, Surat	Fundamentals of GPS Dr. J. N. Patel Professor CED, SVNIT, Surat	GIS-based facility Planning in Urban Areas Dr. Chetan R. Patel Assistant Professor CED, SVNIT, Surat	Task-3: Create Rainfall map Prof. Dipesh C. Rajput Lecturer, CED, SSGP, Surat	Application of GIS for Air Pollution Monitoring Dr. N. D. Jariwala Assistant Professor CED, SVNIT, Surat
3:45 – 4:00	Tea-Break	Tea-Break	Tea-Break	Tea-Break	
4:00 – 5:30	Wellbeing Through Rhythmic Breathing Dr. Krupesh. A. Chauhan Professor CED, SVNIT, Surat	Task-1: Create a shape file of India, State, City and Taluka Prof. Dipesh C. Rajput Lecturer, CED, SSGP, Surat	Task-2: Develop DEM and SLOPE maps in ArcGIS Prof. Dipesh C. Rajput Lecturer, CED, SSGP, Surat	Task-4: Develop Soil map Prof. Dipesh C. Rajput Lecturer, CED, SSGP, Surat	Valedictory Ceremony

Photographs :

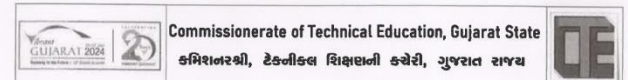
DR. S. & S. S. GHANDHY COLLEGE OF ENGINEERING & TECHNOLOGY, SURAT
CIVIL ENGINEERING DEPARTMENT
ONE WEEK SHORT TERM TRAINING PROGRAM (STTP)
"APPLICATION OF REMOTE SENSING & GIS"

Registration Details

DATE : 30/10/2023

VENUE : SEMINAR HALL

Sr. No.	Name of Participant	Designation	Department	Name of College	Sign
1	AASHISHKUMAR H SONI	A.P. (CL-2)	App. Mech.	GEC, Surat	<i>AS</i>
2	DARSHAN JAYESHBHAI MEHTA	A.P. (CL-2)	Civil	GEC, Surat	<i>DM</i>
3	PARTH GIRISHBHAI TANDEL	A.P. (CL-2)	Civil	GEC, Surat	<i>PT</i>
4	NEETA LALBHAI PATEL	Lecturer	App. Mech.	GP, Ahmedabad	<i>NP</i>
5	PUSHKAR VIKRAMKUMAR PATEL	Lecturer	App. Mech.	GP, Ahmedabad	<i>VP</i>
6	SIDDHARTH CHANDULAL PATEL	Lecturer	Civil	GP, Ahmedabad	<i>SC</i>
7	JAYDEEP RAMESHBHAI ARDESHNA	Lecturer	Civil	GP, Junagadh	<i>JD</i>
8	AMMAR FAZLE ABAS VANANK	Lecturer	Civil	GP, Junagadh	<i>AV</i>
9	ROHIT RAJESHKUMAR TRIPATHI	Lecturer	App. Mech.	GP, Navsari	<i>RT</i>
10	DHARMENDRA VASANTLAL JARIWALA	Lecturer	Civil	GP, Navsari	<i>DV</i>
11	JAYESH DULABHAI ODEDARA	Lecturer	Civil	GP, Porbandar	<i>JO</i>
12	DINESH HARIBHAI VAGADIA	Lecturer	Civil	GP, Rajkot	<i>DV</i>
13	DHARMENDRA BABULAL PRAJAPATI	Lecturer	App. Mech.	GP, Valsad	<i>DB</i>
14	KAYOMERDE PERCY BILLIMORIA	Lecturer	Civil	GP, Valsad	<i>KP</i>
15	PRATIK VINODLAL MEHTA	Lecturer	Civil	GP, Valsad	<i>PM</i>
16	MEHULKUMAR BHARATBHAI TRIVEDI	Lecturer	App. Mech.	GP, Vyara	<i>MT</i>
17	HEMANSHU KISHORBHAI RANA	Lecturer	Civil	GP, Waghai	<i>HR</i>
18	HEMIL MANHARBHAI CHAUHAN	Lecturer	App. Mech.	KJP, Bharuch	<i>HC</i>
19	SUDHIRKUMAR BALDEVBHAI PRAJAPATI	Lecturer	Civil	KJP, Bharuch	<i>SB</i>
20	CHIRAG ANILKUMAR JAMBUSARIYA	Lecturer	Civil	KJP, Bharuch	<i>CA</i>
21	JITENDRA DHIRAJLAL VAGHELA	Lecturer	App. Mech.	SSGP, Surat	<i>JV</i>
22	JAYMIN AMRUTBHAI PATEL	Lecturer	App. Mech.	SSGP, Surat	<i>JP</i>
23	KARTILAGARI DHIRAJLAL UCHDADIYA	Lecturer	Civil	SSGP, Surat	<i>KU</i>
24	PATEL MAYANK MANOJBHAI	PG Student	Civil	SCET, Surat	<i>PM</i>
25	PATEL MEET RAJUBHAI	PG Student	Civil	SCET, Surat	<i>MP</i>
26	ASHIYANI NIKUNJKUMAR MAGANBHAI	Asst.Prof.	Civil	S.N.P.I.T. & R.C., Vidyabharti Trust, Umrakh.	<i>AN</i>



Commissionerate of Technical Education, Gujarat State

કમિશનરશ્રી, ટેકનીકલ શિક્ષણની કચેરી, ગુજરાત રાજ્ય

ઓફ નં. ૨-ડી, કમયોગી ભવન, ૬મો માળો, સેક્ટર ૧૦એ, ગાંધીનગર-૩૮૨ ૦૧૦.

6th Floor, Block No. 2-D, Karmayogibhavan, Sector 10-A, Gandhinagar-382010.

ફોન : (079) 23253546

FAX : (079) 232 53539

URL : <http://dte.gujarat.gov.in>

E-mail: dte-dte@gujarat.gov.in

No. CTE/Training Cell/SSGP_23_2/23-24/6511

Date: 27 OCT 2023

Read: Govt. of Gujarat, GAD Resolution No. TRG-10-2004-4747-VSTP-3 dated 25.05.09

OFFICE ORDER:

With reference to the online submission of TNA and subsequent online application for the training enlisted in training calendar by various faculties, approval is being given to faculties (as per Appendix-I) to attend the training program **Application of Remote Sensing and GIS (SSGP_23_2)** to be held at **Dr. S. and S. S. Ghandhy College of Engg. and Tech. (Polytechnic), Surat** on date **30-10-2023 to 04-11-2023** subject to the following conditions.

- Participants have to attend all the session of training program in fruitful manner.
- Alternative arrangement of the workload of the faculties during the training period is to be made at institute level. The participant attending the said program shall be treated as on duty for the actual period of training and reasonable time spent on journey.
- In case if faculty member is unable to participate due to genuine cause or unavoidable circumstances, Head of Institute has to verify the same and intimate to this office with remarks.
- Faculty is permitted to draw/reimburse Registration fee (if admissible) of Rs. 2000/- (Rupees Two Thousand only) and TA/DA (if admissible) after successful completion and on produce of certificate for said training program as per prevailing State Government rules from the budget grant under TED-7 only.
- Participant faculty has to prepare & submit the training report. **Overall feedback as well as training certificate after completion of the program must be uploaded on FSD portal within 15 days.** Failing of which may be considered ineligible for any further approval of training.
- Participant faculties should complete assignments and/or appear for evaluation/exam if any according to the schedule.

Rakesh Kapadia
 (Dr. Rakesh Kapadia)
 Officer on Special Duty
 Technical Education

To the concerned faculty members as shown above (through E-mail to the Principal)

To,

- Budget branch (F) DTE for in time release of grant to the respective institute.
- Establishment (GH) branch DTE

APPENDIX-I

Commissionerate of Technical Education, Gujarat State, Gandhinagar

Prog. Code :: SSGP_23_2, "Application of Remote Sensing and GIS"

Venue: Dr. S. and S. S. Ghandhy College of Engg. and Tech. (Polytechnic), Surat

Period :: 30-10-2023 to 04-11-2023

List of Participants

Sr. No.	Name	Designation	Dept.	Institute
1.	AASHISHKUMAR H SONI	AP (CL-2)	App. Mech.	GEC, Surat
2.	DARSHAN JAYESHBHAI MEHTA	AP (CL-2)	Civil	GEC, Surat
3.	PARTH GIRISHBHAI TANDEL	AP (CL-2)	Civil	GEC, Surat
4.	NEETA LALBHAI PATEL	Lecturer	App. Mech.	GP, Ahmedabad
5.	PUSHKAR VIKRAMKUMAR PATEL	Lecturer	App. Mech.	GP, Ahmedabad
6.	SIDDHARTH CHANDULAL PATEL	Lecturer	Civil	GP, Ahmedabad
7.	JAYDEEP RAMESHBHAI ARDESHNA	Lecturer	Civil	GP, Junagadh
8.	AMMAR FAZLE ABAS VANANK	Lecturer	Civil	GP, Junagadh
9.	ROHIT RAJESHKUMAR TRIPATHI	Lecturer	App. Mech.	GP, Navsari
10.	DHARMENDRA VASANTLAL JARIWALA	Lecturer	Civil	GP, Navsari
11.	JAYESH DULABHAI ODEDARA	Lecturer	Civil	GP, Porbandar
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14.	KAYOMARZE PERCY BILLIMORIA	Lecturer	Civil	GP, Valsad
15.	PRATIK VINODLAL MEHTA	Lecturer	Civil	GP, Valsad
16.	MEHULKUMAR BHARATBHAI TRIVEDI	Lecturer	App. Mech.	GP, Vyara
17.	HEMANSHU KISHORBHAI RANA	Lecturer	Civil	GP, Waghai
18.	HEMIL MANHARBHAI CHAUHAN	Lecturer	App. Mech.	KJP, Bharuch
19.	SUDHIRKUMAR BALDEVBHAI PRAJAPATI	Lecturer	Civil	KJP, Bharuch
20.	CHIRAG ANILKUMAR JAMBUSARIYA	Lecturer	Civil	KJP, Bharuch
21.	JITENDRA DHIRAJLAL VAGHELA	Lecturer	App. Mech.	SSGP, Surat
22.	JAYMIN AMRUTBHAI PATEL	Lecturer	App. Mech.	SSGP, Surat
23.	KARTILAGARI DHIRAJLAL UCHDADIYA	Lecturer	Civil	SSGP, Surat

Rakesh Kapadia
 Officer on Special Duty
 Technical Education









સુરત-સિટી ભાસ્કર 04-11-2023

સિવિલ એન્જિનિયરિંગના શિક્ષકોને રિમોટ સેન્સિંગ ટેકનો. વિશે માર્ગદર્શન



સિટી રિપોર્ટર, સુરત

અઠવાલાઈન્સ ખાતે આવેલી ડો. એસ. એસ. ગાંધી કોલેજમાં સિવિલ એન્જિનિયરિંગ ડિપાર્ટમેન્ટના શિક્ષકો માટે શોર્ટ ટર્મ ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામનું આયોજન કરવામાં આવ્યું હતું.

જેમાં ગુજરાતની 23 કોલેજોના 26 શિક્ષકો જોડાયા હતા. આ પ્રોગ્રામનો મુખ્ય ઉદ્દેશ્ય શિક્ષકોને લેટેસ્ટ ટેકનોલોજી જેમ કે, રિમોટ સેન્સિંગ ટેકનોલોજી અને જીયો ઇન્ફોર્મેશન સિસ્ટમના ઉપયોગ

વિશેની માહિતી આપવાનો હતો. કાર્યક્રમમાં આ વિષયના એક્સપર્ટ અને SVNITના પ્રોફેસર પી. જી. અગ્નિહોત્રી દ્વારા GIS સિસ્ટમના ડેટા બેઝનો કઈ રીતે ઉપયોગ કરવો, રિયલ વર્લ્ડના જુદા જુદા લેયરના મેપ કઈ રીતે તૈયાર કરવા, તેમજ આ સિસ્ટમના ફાયદા અને લિમિટેશન વિશે પણ શિક્ષકોને માહિતગાર કરાયા હતા. જેથી શિક્ષકો વિદ્યાર્થીઓને ભણાવતી વખતે લેટેસ્ટ ટેકનોલોજી વિશે પણ સારી રીતે સમજ આપી શકે.



સુરત 08-11-2023

ગાંધી ઇન્જીનિયરિંગ કોલેજ મેં પ્રશિક્ષણ મેં રાજ્ય કે 26 પ્રોફેસરોં ને ભાગ લિયા



સિટી રિપોર્ટર | સુરત

સુરત કે ડૉ. એસ. એંડ. એસ.એસ. કોલેજ ઓફ ઇન્જીનિયરિંગ એંડ ટેકનોલોજી કોલેજ (પોલિટેક્નિક) કે સિવિલ ઇન્જીનિયરિંગ વિભાગ દ્વારા પહલી બાર એપ્લિકેશન ઓફ રિમોટ સેન્સિંગ એંડ જીઆઈએસ પ્રશિક્ષણ કા આયોજન કિયા ગય. જિસમેં રાજ્ય કે અલગ-અલગ ઇન્જીનિયરિંગ કોલેજોં કે 26 પ્રોફેસર શામિલ હુય. પ્રશિક્ષણ કાર્યક્રમ મેં વોટર રિસોસેસ ઇન્જીનિયરિંગ, ટાઉન એંડ કન્ટ્રી પ્લાનિંગ, ટ્રાંસપોર્ટેશન ઇન્જીનિયરિંગ ઓર ઇન્વાયરમેંટ ઇન્જીનિયરિંગ મેં સેટેલાઈટ ડેટા એકત્ર કરકે જીઆઈએસ સોફ્ટવેયર મેં ડેટા પ્રોસેસિંગ કે વોરે મેં જાનકારી દી ગઈ. પ્રોફેસરોં ને

મનપા કે જીઆઈએસ સેલ કા દોર કિયા થા. પ્રશિક્ષણ કે તોસરે દિન એસવીએનઆઈટી કે યૂવો ડોન વિરોધપત્ર પ્રોફેસર ડૉ. આશીષ ધર્માનિયા ને ટ્રાંસપોર્ટેશન ઇન્જીનિયરિંગ કે લિપ સડક સુરક્ષા મેં સેટેલાઈટ કનેક્ટેડ માનવ રહિત હવાઈ ડ્રોન (યૂવો) ડેટા ઉપયોગ ઓર ક્ષેત્ર અધ્યયન કે સાથ સેટેલાઈટ કનેક્ટેડ યૂવો ડેટા સંગ્રહ, એક્સટેક્શન ઓર લાઈવ પ્રદર્શન પ્રશિક્ષણ દિયા ગય. કાર્યક્રમ મેં ડૉ. પીજી અગ્નિહોત્રી, ડૉ. આર.એમ.ટેલર, ડૉ. જી.એન. પટેલ, ડૉ. એન.ડી. જયેવાલા ઓર રાજેશ ચીહાન ને અન્ય પ્રોફેસરોં કો સેટેલાઈટ આધારિત તકનીક પર પ્રશિક્ષિત કિયા. પ્રશિક્ષણ સમન્વયક ડીસી રાજપૂત ઓર સહ-સમન્વયક એનજી મહાજન થે.