



Sri
SAIRAM
COLLEGE OF ENGINEERING
Anekal, Bengaluru

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Affiliated to Visvesvaraya Technological University
www.sairamce.edu.in

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 04/01/2021

Submitted to the Principal,

Sub: Requesting permission to organize Add-on Program for EEE Students – Reg.

With respect to the above subject, we are planning to organize Add-on Program "GIS and Remote Sensing Systems" from 25th to 29th January 2021 in our college Campus for all year Electrical and Electronics Engineering Students.

Hence we request you to permit us to organize the same.

Kindly consider and do the needful.

Thanking you Sir,

Yours faithfully,

R. S. L.
4/1/21
(Prof.R.Gunasekari)
Coordinator

May be Considered
& forwarded to
Principal.
mal - c
4/1/21

dy
04/01/2021



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(Managed by Saphagin Educational & Charitable Trust, Bengaluru)

Sai Leo Nagar, Anekal, Bengaluru - 562 106. Tel : +91 - 80 - 2783 0221 / 2784 0631 www.sairamce.edu.in



To

Mr. Shreyas Vernekar,
Co-Founder & CEO,
Rove Labs,
Bengaluru, Karnataka.

Date: 18-01-2021

Dear Sir,

SUB: Letter of Invitation-Reg.

On behalf of Management, Staffs & Students of Department of EEE, We wholeheartedly thank you for having accepted our invitation to conduct an Add-on Program on "GIS and Remote Sensing Systems" for 1st Year, 2nd Year, 3rd Year & Final Year Students. As per your availability Add-on Program is scheduled on 25th to 29th January 2021 (Monday to Friday) from 09.00 am to 04.00 pm.

Thanking you

With regards,



Shadaksharappa
18/01/2021

Principal

Dr. B. Shadaksharappa

Sri Sairam College of Engineering
Sai Leo Nagar, Guddanahalli Post,
Anekal, Bengaluru - 562 106





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To

Date: 18-01-2021

Ms. Gayathri
Application Engineer,
Warten's Technologies,
Bengaluru, Karnataka.

Dear Sir,

SUB: Letter of Invitation-Reg.

On behalf of Management, Staffs & Students of Department of EEE, We wholeheartedly thank you for having accepted our invitation to conduct an Add-on Program on "GIS and Remote Sensing Systems" for 1st Year, 2nd Year, 3rd Year & Final Year Students. As per your availability Add-on Program is scheduled on 25th to 29th January 2021 (Monday to Friday) from 09.00 am to 04.00 pm.

Thanking you

With regards,

Shadaksharappa
18/01/2021

Principal

Dr. B. Shadaksharappa

Sri Sairam College of Engineering

Sai Leo Nagar, Buddanahalli Post,
Anekal, Bengaluru - 562 106



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 11/01/2021

Circular

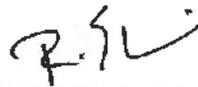
Sub: Plan to organize Add-on Program for the academic year 2020-21 for all EEE students – Reg.

With reference to the above subject, we informed to all students for planning to organize Add-on Program for the academic year 2020-21 in our college. The objective of this course is to provide an opportunity to do an employment oriented /skill based courses.

The schedule of the above courses is as follows:

Sl. No.	Year of Students	Name of the Add-on Program	Name of the Coordinator	Course Schedule
1	I, II, III & IV	GIS and Remote Sensing Systems	Prof. R.Gunasekari	25 th to 29 th Jan 2021 9.00 am to 5.00 pm

Yours faithfully,


(Prof.R.Gunasekari)
Coordinator

for Circulation,

Mal - P.V
11/1/21



ABOUT THE INSTITUTION

Sri Sairam College of Engineering, Bengaluru established in the year 1997 by MJF.Ln.LeoMuthu, Founder chairman of Saphthagiri Educational Trust, is a non-Profitable and non-minority institution, Located within the Bangalore city limits. SSCE is an inspirational place to study in which everything from classrooms to laboratories, hostel to cafeteria is state-of-the-art. The labs and other facilities are among the best in the region making it one of the most sought after institutions by parent and students. Teaching rooms and work areas as well furnished and equipped with modern up-to-date facilities. Sri Sairam College of Engineering has developed into a reputed Engineering institution with ISO 9001:2015 certification. The lush green ambience of the institute makes campus free from pollution. SSCE aims at providing state of the art technology to the student community to broaden their horizon for a better and prospective tomorrow in their own interest and also in interest of the society at large. The institute offers 4 Bachelor degree program. SSCE holds good placement records in past decade. The college is affiliated to the Visvesvaraya Technological University and also approved by All India Council for Technical Education (AICTE), New Delhi

ABOUT THE DEPARTMENT

The Department of EEE, established in 1997 with the approval of AICTE, is set in an open, student friendly atmosphere. We have a fine blend of dynamic and experienced faculty who provide quality education at UG level. With Visvesvaraya Technological University curriculum, the Department places equal emphasis on theoretical and practical domains of electrical and electronics engineering. The laboratories are highly modernized to reflect the rapidly changing trends in technology. The Department has well qualified faculty and excellent facilities for research. The faculty and students have publications in the reputed National and International Journals. Electrical engineers generally design, develop, test, and supervise the manufacture of electrical equipment. Some of the equipments include electric motors; machinery controls, lighting, and wiring in buildings; radar and navigation systems; power generation, controlling and transmission devices used by electric utilities. Electrical engineering focuses on the generation and supply of Electric power, whereas electronics engineering is the application of electricity to control systems or signal processing. Electrical & Electrical engineers specialize in areas such as power systems engineering or electrical equipment manufacturing, signal processing and control systems.

ABOUT THE COURSE

The objective of this course is to provide an opportunity to do an employment oriented/skill based courses. This course will introduce the students to the state-of-the-art concepts and practices of remote sensing and GIS. It starts with the fundamentals of remote sensing and GIS and subsequently advanced methods will be covered. This course is designed to give comprehensive understanding on the application of remote sensing and GIS in solving the research problems. Upon completion, the students should be able to use remote sensing and GIS in their future research work.

RESOURCE PERSONS

Ms.Gayathri

Application Engineer, Warten's Technologies, Bangalore

Mr. Shreyas Vernekar

Co-Founder & CEO Rove Labs, Bangalore

Prof.Nivetha N R P

Assistant Professor, Dept. of CSE, SSCE, Bengaluru

Prof.A.Poonguzhali

Assistant Professor, Dept. of ECE, SSCE, Bengaluru

Prof.Ramya. K

Asst. Professor, Dept. of EEE, SSCE, Bengaluru

PRE-REQUISITES

Nil

COORDINATOR

Prof. R. Gunasekari

Asst. Professor, Dept. of EEE, SSCE, Bengaluru

FOR COMMUNICATION

Prof. Ramya. K

Asst. Professor, Dept. of EEE, SSCE, Bengaluru

Mobile.: 8050890659

Email: ramya.eee@sairamce.edu.in

Prof. D.A.Vennila

Asst. Professor, Dept. of EEE, SSCE, Bengaluru

Mobile.: 9894370408

Email: vennila.eee@sairamce.edu.in

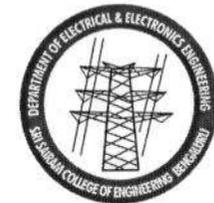


Add-on Program on "GIS AND REMOTE SENSING SYSTEMS"

25TH TO 29TH JAN 2021

Organized by

**DEPARTMENT OF ELECTRICAL
&
ELECTRONICS ENGINEERING**



Sri
SAIRAM COLLEGE OF ENGINEERING

Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106.

PATRONS

Sri. Sai Prakash Leo Muthu
CEO, Sairam Group of Institutions, Bengaluru

PROGRAM CHAIR

Dr. B.Shadaksharappa
Principal, SSCE, Bengaluru

CHIEF ADVISOR

Dr. Arunkumar Rajendran
Management Representative, SSCE, Bengaluru

ADVISORY COMMITTEE

Dr. B.Shadaksharappa
Principal, SSCE, Bengaluru
Dr. P.Bindhu Madhavi
Professor & Head, Dept. of CSE, SSCE, Bengaluru
Prof.C.Sivaprakash
Professor & Head, Dept. of ECE, SSCE, Bengaluru
Prof.Balaji.V
Professor & Head, Dept. of MECH, SSCE, Bengaluru
Dr. P. Gangavathi
Professor & Head, Dept. of S & H, SSCE, Bengaluru
Prof.V.Bheemeswara Reddy
Training & Placement Officer, SSCE, Bengaluru
Prof. Malini. K. V
Professor & Head, Dept. of EEE, SSCE, Bengaluru

CONVENOR

Prof. Malini. K. V
Professor & Head, Dept. of EEE, SSCE, Bengaluru

COURSE SCHEDULE

INAUGURAL PROGRAM : 25-01-2021
COURSE DURATION : 35 HOURS
VALEDICTORY PROGRAM : 29-01-2021

VENUE

LECTURE HALL: 316

COURSE LAYOUT

Session	Topic Covered	Hrs
1	Introduction: Hardware, software and data, Software: System, application, enterprise, free ware, open source	1
2	Coding: ASCII, UNICODE, DBMS, logical data model, physical and logical views, spatial databases available for natural resources and terrain	2
3	Communication systems, wired and wireless communication, communication types, Major types of networks-LAN, WAN, MAN etc, Topologies	2
4	Internet, WWW, web server, client, web browser, TCP/IP Protocol Suite, IP Address,	2
5	Introduction to C: keywords, data types, variables, constants, expressions. Operators: Mathematical, Unary, Binary, Relational and Logical operators, Operator precedence and associativity	2
6	Conditional Control statements: if statement, if else statement, nested if statement, if else if ladder and Ternary operator, Switch case statement.	2
7	Looping control Statements: While loop, Do while Loop, For loop, Nested loops. Functions: Definition, Types of Function, Scope, Call by Value.	2
8	Pointers: Declaration, Definition, Indirection, Arithmetic, Call by Reference. Single dimensional arrays: Definition, Declaration, Accessing, Passing to function. Double dimensional arrays: Definition, Declaration, Accessing, Passing to function.	2
9	Remote sensing – history & development, definition, concept and principles. Energy resources, radiation principles, EM Radiation and EM Spectrum	2
10	Black body radiation, laws of radiation. Interaction of EMR with atmosphere and earth's surface	2
11	Platforms – types and their characteristics, Satellites and their characteristics – geo-stationary and sun-synchronous	2
12	Earth Resources Satellites -LANDSAT, SPOT, IRS, IKONOS satellite series 2.4 Meteorological satellites – INSAT, NOAA, GOES	2
13	Sensors – types and their characteristics, across track (whiskbroom) and along track (push broom) scanning	2
14	Optical mechanical scanners – MSS, TM, LISS, WiFS, PAN, Concept of resolution – spatial, spectral, temporal, radiometric, Basic concept and principles of thermal, microwave and hyper spectral sensing	2
15	Basic principles, types, steps and elements of image interpretation, Techniques of visual interpretation and interpretation keys	2
16	Multidate, multispectral and multidisciplinary concepts, Instruments for visual interpretation	2
17	Remote sensing data products and their procurement, Ground truth collection – spectral signatures	2
18	Commonly used ground truth equipments - use of radiometers, Display forms – computer printouts, thematic maps, dot density maps	2



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71.	1SB17EE015	MANISH SAHANI	Manish	Manish	Manish	Manish	Manish	Manish	AB	Manish	Manish	Manish	Manish
72.	1SB17EE016	MANJUNATH B S	Manji	AB	Manji	Manji							
73.	1SB17EE017	MANOJ PS	MP	MP	MP	AB	MP						
74.	1SB17EE019	NIKHIL C M	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	AB	Nikhil	Nikhil	Nikhil	Nikhil
75.	1SB17EE020	PHULARI KALYANI GUNDAPPA	Kalyani	AB	Kalyani	Kalyani							
76.	1SB17EE022	RANGAPPA	Ran										
77.	1SB17EE023	SACHIN	Sachin	Sachin	Sachin	AB	Sachin						
78.	1SB17EE024	SAISUHAS G	Saisy										
79.	1SB17EE025	SANDHYA D	Sandhya										
80.	1SB17EE026	SHAILESH KUMAR YADAV	SP	SP	SP	AB	SP						
81.	1SB17EE028	SHIVNANDAN SINGH	SS	SS	SS	AB	SS						
82.	1SB17EE029	SUSHMA N	Sushma										
83.	1SB17EE030	SYEDA MAAZIA TABREEN	Syeda										
84.	1SB17EE400	SHIVAKUMAR RATHOD	SP	SP	SP	AB	SP						
Signature of the Coordinator			&	&	&	&	&	&	&	&	&	&	&

Ual - 20/11/2021
Head of the Department



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE ASSESSMENT TEST

Name of the Student: *Badigere Mahorathesha*

Year: *IIIrd Year*

Duration: *25th to 29th January 2021*

Name of the Add-on Program:

Name of the Coordinator: *R. Gunasekari*

USN: *15B18EE004*

Date: *27/01/2021*

Academic Year: *2020-21*

Max. Marks: *50*

Note: Answer all questions. Each question carries 1 mark. Tick the correct answer.

1. Remote sensing techniques make use of the properties of _____ emitted, reflected or diffracted by the sensed objects:
 - a) Sound waves
 - b) Electric waves
 - c) Electromagnetic waves
 - d) Wind waves
2. A reduction of nitrogen nutrient in plants:
 - a) Affects leaf color
 - b) Reduces pigment concentration
 - c) Increase the visible reflectivity
 - d) All of these
3. Which one of the following statement is incorrect regarding the electromagnetic radiation?
 - a) These are produced by the motion of electric charge
 - b) The oscillation of charged particles sets up changing electric fields
 - c) The changing electric fields induce the changing magnetic fields in the surrounding medium
 - d) None of these
4. The altitudinal distance of a geostationary satellite from the earth is about:
 - a) 26,000 km
 - b) 30,000 km
 - c) 36,000 km
 - d) 44,000 km
5. The ratio of the total solar radiant energy returned by a planetary body to the total radiant energy incident on the body, the called:
 - a) Reflectance
 - b) Reflectance factor
 - c) Albedo
 - d) None of these



6. Due to scan geometry of a satellite sensor:

- a) The off-nadir resolution is degraded
- b) The ground distance swept by the sensor, IFOV is proportional to $\sec^2\theta$, where θ is the angle of scan measured from the nadir
- c) The details towards the edge of the scan get compressed
- d) All of these

7. Which one of the following statement is correct?

- a) Radiant energy expressed in Joules, is the energy associated with electromagnetic radiation
- b) The rate of transfer of radiant energy is called flux and is expressed in watts
- c) The radiant energy which falls upon a surface is termed as irradiance
- d) All of these

8. Which one of the following parameters is accurate for DGPS?

- a) Positional accuracies $\sim 1 - 2$ m if rover is less than 1-2 km from the reference station
- b) Positional accuracies $\sim 2 - 5$ m if rover is less than 2-5 km from the reference station
- c) Positional accuracies $\sim 5 - 10$ m if rover is less than 5-10 km from reference station
- d) Positional accuracies $\sim 5 - 10$ m if rover is less than 25 km

9. Pick up the correct statement from the following:

- a) The surface defined by the locus of points having same phase, is called a wave front
- b) The wave whose surface of constant phase are parallel planes, is known as a plane wave
- c) The relative phase difference between the waves is important and not the absolute phase of a point on the wave
- d) All of these

10. Which one of the following statements is correct?

- a) π radians equal to 180°
- b) The cone subtended by an area on the sphere at the centre, is called the solid angle
- c) The solid angle is equal to the ratio of the area on the sphere and the square of the radius of the sphere
- d) All of these

11. Formation of snow occurs if the cloud temperature is

- a) Just above the freezing point
- b) At the freezing point
- c) Below the freezing point
- d) None of these

12. The optical property of a water body depends on:

- a) Absorption by the dissolved material
- b) Absorption by the suspended particulate matter
- c) Scattering by the suspended particulate matter
- d) All of these

13. The object of photo-interpretation is:

- a) Identification
- b) Recognition of objects
- c) Judging the significance of objects
- d) All of these



14. In case of reflection and refraction of electromagnetic radiation,
- a) Angle of incidence = angle of refraction
 - b) Angle of incidence = angle of reflection
 - c) Angle of refraction = sum of the angles of incidence and refraction
 - d) All the above
15. Which one of the following factors does not affect the scale of the air photographs?
- a) Focal length
 - b) Flying height
 - c) Ground elevation
 - d) None of these
16. Which one of the following statements regarding remote sensing is correct?
- a) The interaction of the electromagnetic radiation with the target
 - b) The emission of electromagnetic radiation from the target
 - c) Both (a) and (b)
 - d) Neither (a) nor (b)
17. A perfectly black body:
- a) Is a diffuse emitter
 - b) Absorbs all the radiations of every wave lengths
 - c) Emits power of every wave length
 - d) All the above
18. Which one of the following parameters is considered to determine the reflectance of a vegetation canopy?
- a) Solar zenith angle
 - b) Azimuth angle
 - c) Look angle
 - d) All of these
19. Coherence of two electromagnetic waves takes place if their phase difference is
- a) Constant in time
 - b) Constant in space
 - c) Constant in time and space
 - d) None of these
20. The coherence length over which there is a strong relationship between amplitudes is
- a) Directly proportional to the bandwidth
 - b) Inversely proportional to the bandwidth
 - c) The square of the bandwidth
 - d) None of these
21. GIS stands for _____.
- a) Geographic Information system
 - b) Geographic internal system
 - c) Global Information System
 - d) None of the above



22. GIS captures and analyses _____ data.
- a) Spatial
 - b) Geographical and Special Data
 - c) Geographic
 - d) None of the above
23. GIS applications are _____ tools.
- a) Mobile
 - b) Computer
 - c) Machinery
 - d) None of the above
24. GIS tools allow the user to perform which of the following task?
- a) Create searches
 - b) Store data
 - c) Edit data
 - d) All the above
25. GIS represents unrelated information of location using _____.
- a) Key index
 - b) Key index variable
 - c) Key
 - d) None of the above
26. What is the first step of geoprocessing?
- a) Processes
 - b) Management
 - c) Analyses information
 - d) All the above
27. GIS uses _____ as a key index variable for all other information.
- a) Space time
 - b) Spatio temporal
 - c) Both a and b
 - d) Space
28. A relational database contains _____.
- a) Numbers
 - b) Texts
 - c) Images
 - d) Both a and b
29. GIS either unrelated or relates location information using _____.
- a) Index
 - b) Key Index variable
 - c) Index pointer
 - d) None of the above



30. The key index is the extent in _____ time.
- a) Space
 - b) Orbit
 - c) Satellite
 - d) Earth
31. Earth's location can be recorded in terms of _____ parameters.
- a) Date
 - b) Time
 - c) Calendar
 - d) Both a and b
32. Earth's location recorded in terms of time and date parameters are based on which of the following reference.
- a) Latitude
 - b) Longitude
 - c) Elevation
 - d) All the above
33. A GIS coordinates can represent which of the following systems?
- a) Highway mile marker
 - b) Surveyor benchmark
 - c) Entrance gate
 - d) All the above
34. GIS accuracy depends on _____.
- a) The encoded process
 - b) Source data
 - c) Both a and b
 - d) Location
35. Which of the following surveys provided high accuracy with GPS derived positions?
- a) Land
 - b) Water
 - c) Farm areas
 - d) None of the above
36. Which of the following are considered while developing a digital topographic database for GIS?
- a) Aerial photography
 - b) Satellite imagery
 - c) Topographical maps
 - d) All the above
37. Topography deals with _____ of earth surface.
- a) Shape
 - b) Characteristic
 - c) Location
 - d) Both a and b



38. Topographic map is also called _____.
- a) Topographic sheet
 - b) Topographic module
 - c) Topographic paper
 - d) None of the above
39. Aerial photography is also called as _____.
- a) Airborne imagery
 - b) Airborne sheet
 - c) Air imagery
 - d) All the above
40. What is the function of airborne imagery?
- a) Takes photographs from aircraft
 - b) Observes aircraft
 - c) Monitors data
 - d) All the above
41. Airborne imagery takes aerial photographs using _____ resources.
- a) Balloons
 - b) Aircrafts
 - c) Blimps
 - d) All the above
42. _____ can remotely trigger special photographs.
- a) Mounted cameras
 - b) Cameras
 - c) Digital device
 - d) None of the above
43. Is air-to-air photography and aerial photography similar?
- a) Yes
 - b) No
 - c) Mybe
44. _____ determines the fidelity of the represented colors in raster graphics.
- a) Color depth
 - b) Color brightness
 - c) Color dimensions
 - d) All the above
45. _____ determines the range of the color coverage in raster graphics.
- a) Color space
 - b) Color brightness
 - c) Color dimensions
 - d) All the above



46. Air to air photography uses _____ number of aircraft.
- a) 0
 - b) 2
 - c) 3
 - d) 1 or more
47. A chase plane is a _____.
- a) Satellite
 - b) Aircraft
 - c) Boat
 - d) None of the above
48. Which of the following are the types of aerial photography?
- a) Oblique
 - b) Vertical
 - c) Horizontal
 - d) Both a and b
49. Oblique photographs are taken in an _____ direction.
- a) Angled
 - b) Vertical
 - c) Horizontal
 - d) None of the above
50. If an oblique photograph is taken at a low angle relative then it is called as _____ oblique.
- a) High
 - b) Low
 - c) Perpendicular
 - d) None of the above

50/50



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Evaluation Sheet

Year of Students: I, II, III & IV

Academic Year: 2020-21

Name of Add-on Program: GIS and Sensor Remote Sensing Systems

Name of the Coordinator: Prof. R.Gunasekari

Duration: 25nd Jan – 29th Jan 2021

DATE			29/01/2021		
Sl. No	USN	NAME OF THE STUDENT	Max Marks (50)	Marks Obtained	Result
1.	1SB20EE001	ABHISHEK NAIK G	50	44	Pass
2.	1SB20EE002	CHANDAN HC	50	48	Pass
3.	1SB20EE003	GURUSWAMY K N	50	44	Pass
4.	1SB20EE004	HANAMANT KOLAR	50	44	Pass
5.	1SB20EE005	INDIRA J	50	46	Pass
6.	1SB20EE006	CHITRA LINGA K	50	50	Pass
7.	1SB20EE007	MADHU M	50	46	Pass
8.	1SB20EE008	MOHAMMED MUSTAFA	50	48	Pass
9.	1SB20EE009	MOHAMMED SAADULLAKHAN	50	46	Pass
10.	1SB20EE010	MUJAHEED AHMED	50	48	Pass
11.	1SB20EE011	NARASANNA .D	50	48	Pass
12.	1SB20EE012	PALLAVI S	50	50	Pass
13.	1SB20EE013	RAMESH .S	50	50	Pass
14.	1SB20EE014	SACHIN MARAGAPPA KATTIMANI	50	46	Pass
15.	1SB20EE015	SAIRAM K V	50	48	Pass
16.	1SB20EE016	SANDHYA S	50	46	Pass



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17.	1SB20EE017	SOMAGUTTA SUSHMITHA	50	50	Pass
18.	1SB20EE018	VINAY S	50	48	Pass
19.	1SB20EE019	VINEETH .N	50	44	Pass
20.	1SB18EE002	A AKASH	50	46	Pass
21.	1SB19EE001	AKHILA N	50	48	Pass
22.	1SB19EE002	BASAVARAJ M	50	48	Pass
23.	1SB19EE003	CHANDAN P	50	46	Pass
24.	1SB19EE004	GANUMUKKALA CHAKRAPANI	50	44	Pass
25.	1SB19EE005	LAKSHMI NANDAN	50	44	Pass
26.	1SB19EE006	LIKITHA N E	50	50	Pass
27.	1SB19EE007	PAVAN KUMAR V	50	46	Pass
28.	1SB19EE008	RAJENDRA C	50	50	Pass
29.	1SB19EE009	ROOPESHKUMAR H	50	50	Pass
30.	1SB19EE010	SAKET BHUSHAN	50	50	Pass
31.	1SB19EE011	SAKET RAJ	50	50	Pass
32.	1SB19EE012	SHIVA PRASAD	50	46	Pass
33.	1SB19EE013	SHRUTHI R	50	48	Pass
34.	1SB19EE014	SOUNDARYA M	50	46	Pass
35.	1SB19EE015	SUBODH KUMAR MURMU	50	50	Pass
36.	1SB19EE016	UDHAY KIRAN K	50	50	Pass
37.	1SB19EE017	VANDANA K	50	48	Pass
38.	1SB19EE018	VARUN GOWDA M M	50	44	Pass
39.	1SB19EE019	VATHSALA R	50	50	Pass
40.	1SB19EE020	YOGESHRAJ R B	50	46	Pass



41.	1SB19EE021	ZUHRA MUKHTAR	50	48	Pass
42.	1SB17EE012	KARTHIK M	50	44	Pass
43.	1SB17EE021	RAGHAVENDRA	50	46	Pass
44.	1SB17EE031	TEJAS D N	50	48	Pass
45.	1SB17EE007	AVISHA	50	46	Pass
46.	1SB18EE003	ANIL KUMAR B V	50	44	Pass
47.	1SB18EE004	BADIGERE MAHANTHESHA	50	50	Pass
48.	1SB18EE005	BHEEMASHANKAR H YATNUR	50	50	Pass
49.	1SB18EE007	PARTHASARATHY T	50	48	Pass
50.	1SB18EE009	PRASHANTH BASAVARAJ PATATAR	50	50	Pass
51.	1SB18EE010	RAGHAVENDRAN M	50	48	Pass
52.	1SB18EE012	SUHAS D S	50	50	Pass
53.	1SB18EE013	TARUN S	50	48	Pass
54.	1SB18EE015	VATHSALKUMAR D V	50	50	Pass
55.	1SB18EE016	VENKATESH S HERUR	50	46	Pass
56.	1SB18EE017	VIKAS M	50	50	Pass
57.	1SB15EE002	AKASH.A.R	50	46	Pass
58.	1SB16EE003	DEEPAK R PATIL	50	48	Pass
59.	1SB16EE005	JAGADESH.N	50	44	Pass
60.	1SB17EE001	ABHISHEK KUMAR	50	48	Pass
61.	1SB17EE002	ADARSH AGYEYA	50	50	Pass
62.	1SB17EE003	ADARSHA K	50	46	Pass
63.	1SB17EE004	AMAN AGARWAL	50	50	Pass
64.	1SB17EE005	AMBRESH	50	48	Pass



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65.	1SB17EE006	ARCHANA P	50	48	Pass
66.	1SB17EE008	DHANUSH P S	50	50	Pass
67.	1SB17EE009	GURURAJ	50	46	Pass
68.	1SB17EE010	HARSHITA H	50	48	Pass
69.	1SB17EE013	LAVANYA K	50	50	Pass
70.	1SB17EE014	MAHESH K	50	50	Pass
71.	1SB17EE015	MANISH SAHANI	50	50	Pass
72.	1SB17EE016	MANJUNATH B S	50	46	Pass
73.	1SB17EE017	MANOJ PS	50	46	Pass
74.	1SB17EE019	NIKHIL C M	50	48	Pass
75.	1SB17EE020	PHULARI KALYANI GUNDAPPA	50	48	Pass
76.	1SB17EE022	RANGAPPA	50	48	Pass
77.	1SB17EE023	SACHIN	50	46	Pass
78.	1SB17EE024	SAISUHAS G	50	50	Pass
79.	1SB17EE025	SANDHYA D	50	50	Pass
80.	1SB17EE026	SHAILESH KUMAR YADAV	50	50	Pass
81.	1SB17EE028	SHIVNANDAN SINGH	50	44	Pass
82.	1SB17EE029	SUSHMA N	50	50	Pass
83.	1SB17EE030	SYEDA MAAZIA TABREEN	50	50	Pass
84.	1SB17EE400	SHIVAKUMAR RATHOD	50	48	Pass
Signature of the Coordinator					

Head of the Department
Date: 29/1/21



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COLLEGE OF ENGINEERING

Title : **FEEDBACK ON ADD-ON PROGRAM ON "GIS AND REMOTE SENSING SYSTEMS"**

Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD-ON PROGRAM FEEDBACK							
Name of the Student	RAMESH.S						
USN	1SB20EE013						
Year	I						
Department	EEE						
ADD-ON PROGRAM DESCRIPTION							
Date	25.01.2021 to 29.01.2021						
Duration	35 Hrs						
Name of the Add-on Program	GIS & Remote Sensing Systems						
Name of the Resource Person	Mr. Shreyas Vernelkar						
Type of Training	In-House						
Location	SSCE						
FEEDBACK							
Please rate on a scale of 1 to 5, 1 being the lowest, by marking a "✓" against your rating.							
Relevance and Use	1	2	3	4	5	✓	
Quality of Add-on Program	1	2	3	4	5	✓	
Facilities	1	2	3	4	5	✓	
Resource Person Subject Knowledge Rating	1	2	3	4	5	✓	
Resource Person Presentation Rating	1	2	3	4	5	✓	
Course Material	1	2	3	4	5	✓	
Exercise	1	2	3	4	5	✓	



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PROGRAM ON "GIS AND REMOTE
SENSING SYSTEMS**

Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Speed	1	2	3	4	5	✓
Duration	1	2	3	4	5	✓
Coverage	1	2	3	4	5	✓
Usefulness for the Career	1	2	3	4	5	✓
Infrastructure Arrangements	1	2	3	4	5	✓

How much did the add-on program help you? Specify.

Very useful for my future carrier

Follow up training required (If Yes, list specific areas)

—

Date: 29.01.2021

Ramesh
Student's Signature



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COLLEGE OF ENGINEERING

Title : **FEEDBACK ON ADD-ON PROGRAM ON "GIS AND REMOTE SENSING SYSTEMS"**

Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD-ON PROGRAM FEEDBACK								
Name of the Student	Keketha N. E							
USN	1SB19EE007							
Year	II							
Department	EEE							
ADD-ON PROGRAM DESCRIPTION								
Date	25.01.2021 TO 29.01.2021							
Duration	35 hours							
Name of the Add-on Program	GIS & Remote Sensing Systems.							
Name of the Resource Person	Prof. Ranya. K.							
Type of Training	In-House							
Location	SSCE, Bangalore							
FEEDBACK								
Please rate on a scale of 1 to 5, 1 being the lowest, by marking a "✓" against your rating.								
Relevance and Use	1	2	3	4	5	✓		
Quality of Add-on Program	1	2	3	4	5	✓		
Facilities	1	2	3	4	5	✓		
Resource Person Subject Knowledge Rating	1	2	3	4	5	✓		
Resource Person Presentation Rating	1	2	3	4	5	✓		
Course Material	1	2	3	4	5	✓		
Exercise	1	2	3	4	5	✓		



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SENSING SYSTEMS

Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Speed	1	2	3	4	5	✓
Duration	1	2	3	4	5	✓
Coverage	1	2	3	4	5	✓
Usefulness for the Career	1	2	3	4	5	✓
Infrastructure Arrangements	1	2	3	4	5	✓

How much did the add-on program help you? Specify.

Helpful to gather the knowledge about
this course

Follow up training required (If Yes, list specific areas)

-

Date: 29.01.2021

J. Lakshmi N.E
Student's Signature



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Title : **FEEDBACK ON ADD-ON PROGRAM ON "GIS AND REMOTE SENSING SYSTEMS"**

Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD-ON PROGRAM FEEDBACK							
Name of the Student	Parthasarathy . T						
USN	15B18EE007						
Year	<u>III</u>						
Department	EEE						
ADD-ON PROGRAM DESCRIPTION							
Date	25/01/2021 TO 29/01/2021						
Duration	35 Hours						
Name of the Add-on Program	GIS and Remote Sensing Systems						
Name of the Resource Person	Prof. A. Poonguzhali						
Type of Training	In House						
Location	SSCE, Anekal						
FEEDBACK							
Please rate on a scale of 1 to 5, 1 being the lowest, by marking a "✓" against your rating.							
Relevance and Use	1	2	3	4	5		✓
Quality of Add-on Program	1	2	3	4	5		✓
Facilities	1	2	3	4	5	✓	
Resource Person Subject Knowledge Rating	1	2	3	4	5		✓
Resource Person Presentation Rating	1	2	3	4	5		✓
Course Material	1	2	3	4	5	✓	
Exercise	1	2	3	4	5	✓	



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PROGRAM ON "GIS AND REMOTE
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Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Speed	1	2	3	4	5	✓
Duration	1	2	3	4	5	✓
Coverage	1	2	3	4	5	✓
Usefulness for the Career	1	2	3	4	5	✓
Infrastructure Arrangements	1	2	3	4	5	✓

How much did the add-on program help you? Specify.

Useful for my carrier.

Follow up training required (If Yes, list specific areas)

Date: 29.01.2021

Parvathasavathy . J.
Student's Signature



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Title : **FEEDBACK ON ADD-ON PROGRAM ON "GIS AND REMOTE SENSING SYSTEMS"**

Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD-ON PROGRAM FEEDBACK									
Name of the Student	Derpaik R. Patil								
USN	1SB16EE003								
Year	IV								
Department	EEE								
ADD-ON PROGRAM DESCRIPTION									
Date	25/01/2021 to 29/01/2021								
Duration	25 hours								
Name of the Add-on Program	GIS and Remote Sensing Systems.								
Name of the Resource Person	Prof. Nishtha N R P								
Type of Training	In House								
Location	SSCE, Anekal								
FEEDBACK									
Please rate on a scale of 1 to 5, 1 being the lowest, by marking a "✓" against your rating.									
Relevance and Use	1	2	3	4	5	✓			
Quality of Add-on Program	1	2	3	4	5	✓			
Facilities	1	2	3	4	5	✓			
Resource Person Subject Knowledge Rating	1	2	3	4	5	✓			
Resource Person Presentation Rating	1	2	3	4	5	✓			
Course Material	1	2	3	4	5	✓			
Exercise	1	2	3	4	5	✓			



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Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Speed	1	2	3	4	5	✓
Duration	1	2	3	4	5	✓
Coverage	1	2	3	4	5	✓
Usefulness for the Career	1	2	3	4	5	✓
Infrastructure Arrangements	1	2	3	4	5	✓

How much did the add-on program help you? Specify.

Very informative and useful course

Follow up training required (If Yes, list specific areas)

Date: 29/01/2021

Deepak P. Patel
Student's Signature



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Title : **FEEDBACK ON ADD-ON PROGRAM ON "GIS AND REMOTE SENSING SYSTEMS"**

Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD-ON PROGRAM FEEDBACK							
Name of the Student	K. LAVANYA						
USN	1SB17EED13						
Year	<u>IV</u>						
Department	EEE						
ADD-ON PROGRAM DESCRIPTION							
Date	25/01/2021 to 29/01/2021						
Duration	35 Hours						
Name of the Add-on Program	GIS and Remote Sensing systems						
Name of the Resource Person	Ms. Gayathri						
Type of Training	In-Rouse						
Location	SSCE, Anegal.						
FEEDBACK							
Please rate on a scale of 1 to 5, 1 being the lowest, by marking a "✓" against your rating.							
Relevance and Use	1	2	3	4	5		✓
Quality of Add-on Program	1	2	3	4	5		✓
Facilities	1	2	3	4	5	✓	
Resource Person Subject Knowledge Rating	1	2	3	4	5		✓
Resource Person Presentation Rating	1	2	3	4	5		✓
Course Material	1	2	3	4	5	✓	
Exercise	1	2	3	4	5	✓	



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Title : **FEEDBACK ON ADD-ON
PROGRAM ON "GIS AND REMOTE
SENSING SYSTEMS**

Academic Year 2020-21

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Speed	1	2	3	4	5	✓
Duration	1	2	3	4	5	✓
Coverage	1	2	3	4	5	✓
Usefulness for the Career	1	2	3	4	5	✓
Infrastructure Arrangements	1	2	3	4	5	✓

How much did the add-on program help you? Specify.

Follow up training required (If Yes, list specific areas)

Better understanding of this course.

Date: 29/01/2021

K. Lavanya
Student's Signature

Date: 03.02.2021

Submitted,

Sub: Report on 5 Days add-on program titled "GIS and Remote Sensing Systems" for all year EEE students during 2020-21 academic year – Reg.

A 5 Days add-on program on "GIS and Remote Sensing Systems" organized by Department of Electrical and Electronics Engineering for all year students. The duration of program was 35 Hrs which was started from 25-01-2021 to 29-01-2021. This program was related to the employable and life skills. This course was conducted during 2020-21 academic year. 84 students were enrolled for this add-on program. The objective of this course is to provide an opportunity to do an employment oriented/skill based courses. This course will introduce the students to the state-of-the-art concepts and practices of remote sensing and GIS.

The inaugural function was started on 25-01-2021 @ 09.30 am with lighting of the lamp by the dignitaries followed by invocation song by VANDANA K and SHRUTHI R of 2nd year EEE students. The dignitaries were Dr.B.Shadaksharappa, Principal, Prof.Malini.K.V, HOD, Dr.Arunkumar Rajendran, Management Representative and Chief Guest Mr. Shreyas Vernekar, Co-Founder & CEO, Rove Labs, Bengaluru.

Prof. Malini.k.V, HOD and also Convenor of the course welcomed the gathering. The Chief Guest was honored with bouquet and memento by Dr.B.Shadaksharappa, Principal. He presided the function and delivered the presidential address. In his address, he motivated the students to have active participation in this course and encouraged the students to complete this course successfully within the period. Prof.Madhava Rao.J was introduced the Chief Guest Guest Mr. Shreyas Vernekar, Co-Founder & CEO, Rove Labs, Bengaluru. The inaugural address was delivered by the Chief Guest. In this address, he explained the overview of program and how this program was useful to student's carrier in placements, and higher education. Inaugural function ended with vote of thanks by Prof.R.Gunasekari, Coordinator of the program. After finishing the inaugural function, the course was started on the same day @ 10.00 am

In Day 1, "Introduction to GIS and Remote Sensing Systems" delivered by Mr. Shreyas Vernekar, Co-Founder & CEO, Rove Labs, Bengaluru.

In Day 2, Ms.Gayathri, Application Engineer, Warten's Technologies, Bangalore started with a lecture on "Introduction to Remote Sensing Systems".

In Day 3, Prof.A.Poonguzhali, Asst. Professor, Dept. of ECE, SSCE had given a lecture on "Sensors – types and their characteristics".

In Day 4, Prof.Nivetha N R P, Asst. Professor, Dept. of CSE, SSCE, Bengaluru delivered the speech on "Coding, Communication systems and Introduction to C".

In Day 5, A lecture on "Remote sensing data products and their procurement" was delivered by Prof.Ramya.K, Asst. Professor, Dept. of EEE, SSCE

The valedictory function of certificate course was ended with a National Anthem on 29/01/2021.

**List of Students Enrolled for 5 Days Add-on program titled
"GIS and Remote Sensing Systems"**

SL. NO	USN	NAME OF THE STUDENT
1.	1SB20EE001	ABHISHEK NAIK G
2.	1SB20EE002	CHANDAN HC
3.	1SB20EE003	GURUSWAMY K N
4.	1SB20EE004	HANAMANT KOLAR
5.	1SB20EE005	INDIRA J
6.	1SB20EE006	CHITRA LINGA K
7.	1SB20EE007	MADHU M
8.	1SB20EE008	MOHAMMED MUSTAFA
9.	1SB20EE009	MOHAMMED SAADULLAKHAN
10.	1SB20EE010	MUJAHEED AHMED
11.	1SB20EE011	NARASANNA .D
12.	1SB20EE012	PALLAVI S
13.	1SB20EE013	RAMESH .S



14.	1SB20EE014	SACHIN MARAGAPPA KATTIMANI
15.	1SB20EE015	SAIRAM K V
16.	1SB20EE016	SANDHYA S
17.	1SB20EE017	SOMAGUTTA SUSHMITHA
18.	1SB20EE018	VINAY S
19.	1SB20EE019	VINEETH .N
20.	1SB18EE002	A AKASH
21.	1SB19EE001	AKHILA N
22.	1SB19EE002	BASAVARAJ M
23.	1SB19EE003	CHANDAN P
24.	1SB19EE004	GANUMUKKALA CHAKRAPANI
25.	1SB19EE005	LAKSHMI NANDAN
26.	1SB19EE006	LIKITHA N E
27.	1SB19EE007	PAVAN KUMAR V
28.	1SB19EE008	RAJENDRA C
29.	1SB19EE009	ROOPESHKUMAR H
30.	1SB19EE010	SAKET BHUSHAN
31.	1SB19EE011	SAKET RAJ
32.	1SB19EE012	SHIVA PRASAD
33.	1SB19EE013	SHRUTHI R
34.	1SB19EE014	SOUNDARYA M
35.	1SB19EE015	SUBODH KUMAR MURMU
36.	1SB19EE016	UDHAY KIRAN K
37.	1SB19EE017	VANDANA K
38.	1SB19EE018	VARUN GOWDA M M
39.	1SB19EE019	VATHSALA R
40.	1SB19EE020	YOGESHRAJ R B



41.	1SB19EE021	ZUHRA MUKHTAR
42.	1SB17EE012	KARTHIK M
43.	1SB17EE021	RAGHAVENDRA
44.	1SB17EE031	TEJAS D N
45.	1SB17EE007	AVISHA
46.	1SB18EE003	ANIL KUMAR B V
47.	1SB18EE004	BADIGERE MAHANTHESHA
48.	1SB18EE005	BHEEMASHANKAR H YATNUR
49.	1SB18EE007	PARTHASARATHY T
50.	1SB18EE009	PRASHANTH BASAVARAJ PATATAR
51.	1SB18EE010	RAGHAVENDRAN M
52.	1SB18EE012	SUHAS D S
53.	1SB18EE013	TARUN S
54.	1SB18EE015	VATHSALKUMAR D V
55.	1SB18EE016	VENKATESH S HERUR
56.	1SB18EE017	VIKAS M
57.	1SB15EE002	AKASH.A.R
58.	1SB16EE003	DEEPAK R PATIL
59.	1SB16EE005	JAGADESH.N
60.	1SB17EE001	ABHISHEK KUMAR
61.	1SB17EE002	ADARSH AGYEYA
62.	1SB17EE003	ADARSHA K
63.	1SB17EE004	AMAN AGARWAL
64.	1SB17EE005	AMBRESH
65.	1SB17EE006	ARCHANA P
66.	1SB17EE008	DHANUSH P S
67.	1SB17EE009	GURURAJ



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Dept. of EEE

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69.	1SB17EE013	LAVANYA K
70.	1SB17EE014	MAHESH K
71.	1SB17EE015	MANISH SAHANI
72.	1SB17EE016	MANJUNATH B S
73.	1SB17EE017	MANOJ PS
74.	1SB17EE019	NIKHIL C M
75.	1SB17EE020	PHULARI KALYANI GUNDAPPA
76.	1SB17EE022	RANGAPPA
77.	1SB17EE023	SACHIN
78.	1SB17EE024	SAISUHAS G
79.	1SB17EE025	SANDHYA D
80.	1SB17EE026	SHAILESH KUMAR YADAV
81.	1SB17EE028	SHIVNANDAN SINGH
82.	1SB17EE029	SUSHMA N
83.	1SB17EE030	SYEDA MAAZIA TABREEN
84.	1SB17EE400	SHIVAKUMAR RATHOD

R. S. L.
3/2/21

Coordinator
(Prof. R.Gunasekari)

Malini K V
3/2/21
Head of the Department
(Prof. Malini K V)

03/02/2021



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Date: 29.01.2021

To,

Mr. Shreyas Vernekar,
Co-Founder & CEO,
Rove Labs,
Bengaluru, Karnataka.

Sir,

Sub: Letter of Appreciation -Reg.,

On behalf of Management, Staff & Students, We wholeheartedly thank you for having accepted our invitation for being a resource person in an Add-on Program on topic "GIS and Remote Sensing Systems" held from 25th Jan 2021 to 29th Jan 2021 as a part of 5 days Add-on program for all year EEE students for the academic year 2020-21 at our college. Our profuse thanks are also due to the valuable inputs of yours to our college Activities.

Thanks for your time and participation.

Thanking you

Yours truly,



Handwritten signature
29/01/2021

PRINCIPAL

Sri Sairam College of Engineering
Sai Leo Nagar, Guddanahalli Post,
Anekal, Bengaluru - 562 106



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Sai Leo Nagar, Anekal, Bengaluru - 562 106. Tel : +91 - 80 - 2783 0221 / 2784 0631 www.sairamce.edu.in



Date: 29.01.2021

To,

Ms. Gayathri
Application Engineer,
Warten's Technologies,
Bengaluru, Karnataka.

Sir,

Sub: Letter of Appreciation -Reg.,

On behalf of Management, Staff & Students, We wholeheartedly thank you for having accepted our invitation for being a resource person in an Add-on Program on topic "GIS and Remote Sensing Systems" held from 25th Jan 2021 to 29th Jan 2021 as a part of 5 days Add-on program for all year EEE students for the academic year 2020-21 at our college. Our profuse thanks are also due to the valuable inputs of yours to our college Activities.

Thanks for your time and participation.

Thanking you

Yours truly,



Madalal
29/01/2021

PRINCIPAL

Sri Sairam College of Engineering
Sai Leo Nagar, Guddanahalli Post,
Anekal, Bengaluru - 562 106



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SAIRAM COLLEGE OF ENGINEERING



Anekal, Bengaluru

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Certificate

This is to Certify that

Mr. / Ms. ABHISHEK NAIK G USN... 1SB20EE001

Department of Electrical and Electronics Engineering

has successfully Completed the Add-on Program on

"GIS and Remote Sensing Systems"

Conducted at

SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU

during the period 25th to 29th January 2021

Prof. R. GUNASEKARI
Coordinator

Prof. MALINI. K. V
Prof. & HOD

Dr. B. SHADAKSHARAPPA
Principal

Accredited by



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Anekal, Bengaluru

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Certificate

This is to Certify that

Mr. / Ms.....CHANDAN HC.....USN.....1SB20EE002.....

Department of Electrical and Electronics Engineering

has successfully Completed the Add-on Program on

"GIS and Remote Sensing Systems"

Conducted at

SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU

during the period 25th to 29th January 2021

Prof. R. GUNASEKARI
Coordinator

Prof. MALINI. K. V
Prof. & HOD

Dr. B. SHADAKSHARAPPA
Principal

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Certificate

This is to Certify that

Mr. / Ms. ABHISHEK NAIK G USN. 1SB20EE001

Department of Electrical and Electronics Engineering

has successfully Completed the Add-on Program on

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Conducted at

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during the period 25th to 29th January 2021

Prof. R. GUNASEKARI
Coordinator

Prof. MALINI. K. V
Prof. & HOD

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Principal

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Anekal, Bengaluru

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Certificate

This is to Certify that

Mr. / Ms. CHANDAN HCUSN. 1SB20EE002.....

Department of Electrical and Electronics Engineering

has successfully Completed the Add-on Program on

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SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU

during the period 25th to 29th January 2021

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