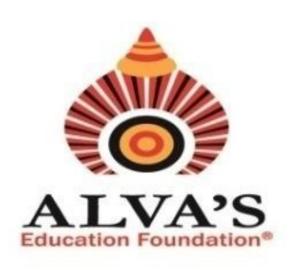
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CAREER COUNSELING AND TRAINING FOR COMPETITIVE EXAMINATIONS

5.1.4 Av	erage Percentage of Stud	dents benefitted by Guidance for	Competi	tive Exan	ninations a	and Care	er Couns	eling offe	red by the	e Institutio	n during th	e year 2023-24	I	Other	
Year	Registration number/roll number for the exam	Names of students selected/ qualified	NET	SLET	GATE	GMAT	CAT	GRE	JAM	IELET	TOEFL	Civil Services	State government examinations	examinations conducted by the State /	STATUS
	0124AA0095079	ABHISHEK P												TRUE	NOT CLEARED
	CS23S11227205	CHINMAYA BHAT K K			TRUE										CLEARED
	0124AA0076665	GURULIKHITH S												TRUE	CLEARED
	CS24S51331278	JAGATH S K			TRUE										CLEARED
	CS24S51331424	KARTHIK TOMER			TRUE										CLEARED
	CS24S61331395	MANOJ M			TRUE										CLEARED
	CS24S61331401	NANDA C BANGERA			TRUE										NOT CLEARED
	CS24S51335033	PRASHANTH K			TRUE										CLEARED
2022 24	6291177	PRAJWAL B										TRUE			NOT CLEARED
2023-24	0223AA0107416	RAHUL												TRUE	CLEARED
	301314	RAHUL										TRUE			NOT CLEARED
	CS24S51331436	RASI K R			TRUE										CLEARED
	3900081	REVANASIDDA B POOJARI										TRUE			NOT CLEARED
	CS24S6134120	RITHIK R M			TRUE										CLEARED
	CS24S51331410	RUCHITHA M R			TRUE										CLEARED
	0124AA0080008	SHARATH RAMANAND NAIK												TRUE	NOT CLEARED
	CS24S51331332	SHIVAPRASAD H S			TRUE										CLEARED
	CS24S61331359	SUCHITH H C			TRUE										CLEARED



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Pre-placement Phase-2 Training Schedule

Date	Group_1: SSCD Lab	Group_2: Internet Lab(GF)	Group_3: AIML Lab(2 nd F)	Group_4: ISE Lab(3 rd F)
11 th Aug	KSCST Project Exhibition: All stud	lents must should view all the inte	erdisciplinary projects and Prepare the S	ynopsis for Final Year Projects
12 th Aug	3 Hc	ours Descriptive Assessment on Da	ata Structures & Algorithms(9:30-12:30)	
Time	9Am to 5 PM	9Am to 5 PM	9Am to 5 PM	9Am to 5 PM
14 th Aug	Python Programming Fundamentals Prof.Shrikanth & Prof. Rizawan N Shaikh	Java Programming Dr.Mohideen Badhusha S	Java Programming Prof.Mahesh Kini M and Mr.Senthil Kumar R	Java Programming Dr.Pradeep V and Mrs. Deeksha M
15 th Aug	Python Programming Fundamentals Prof.Shrikanth & Prof. Rizawan N Shaikh	Java Programming <i>Dr.Mohideen Badhusha S</i>	Java Programming Prof.Mahesh Kini M and Mr.Senthil Kumar R	Java Programming Dr.Pradeep V and Mrs. Deeksha M
16 th Aug	Python Programming Fundamentals Prof.Shrikanth & Prof. Rizawan N Shaikh	Advanced Java Programming Mr.Charles Antoni, Mysuru	Java Programming Dr.Mohideen Badhusha S	Web Programming Prof.Vidya & Mr.Prashanth Kumar
17 th Aug	Advanced Python Programming Dr. Basavaraj Talawar, NITK Surathkal	Advanced Java Programming Mr.Charles Antoni, Mysuru	Java Programming <i>Dr.Mohideen Badhusha S</i>	Web Programming Prof.Vidya & Mr.Prashanth Kumar
18 th Aug	Advanced Python Programming Dr. Basavaraj Talawar, NITK Surathkal	Web Programming Prof.Vidya & Mr.Prashanth Kumar	Advanced Java Programming Mr. Charles Antoni, Mysuru	Java Programming Dr.Mohideen Badhusha S
19 th Aug	Advanced Python Programming Dr. Basavaraj Talawar, NITK Surathkal	Web Programming Prof.Vidya & Mr.Prashanth Kumar	Advanced Java Programming Mr. Charles Antoni, Mysuru	Java Programming <i>Dr.Mohideen Badhusha S</i>
20 th Aug	Web Programming Prof.Vidya & Mr.Prashanth Kumar	Java Programming Prof.Mahesh Kini M and Mr.Senthil Kumar R	Web Programming Dr.G.Srinivasan & Mr.Pradeep Nayak	Advanced Java Programming Mr.Charles Antoni, Mysuru
21st Aug	Web Programming Prof.Vidya & Mr.Prashanth Kumar	Java Programming Prof.Mahesh Kini M and Mr.Senthil Kumar R	Web Programming Dr.G.Srinivasan & Mr.Pradeep Nayak	Advanced Java Programming Mr. Charles Antoni, Mysuru
22 nd Aug		Python & Ja	ava Assessment	
23 rd Aug		Code Craft I	Placement Drive	



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24 th Aug		Assessment & Guest	Lecture by Girish Prasad	
25 th Aug	Company Specific Training-	Company Specific Training-	Company Specific Training-	Company Specific Training-
	FACE Academy	FACE Academy	FACE Academy	FACE Academy
26 th Aug	Company Specific Training-	Company Specific Training-	Company Specific Training-	Company Specific Training-
	FACE Academy	FACE Academy	FACE Academy	FACE Academy
27 th Aug	Company Specific Training-	Company Specific Training-	Company Specific Training-	Company Specific Training-
	FACE Academy	FACE Academy	FACE Academy	FACE Academy
28th Aug	Soft Skill Training - Aerodynamiks	Soft Skill Training -	Company Specific Training-	Company Specific Training-
_		Aerodynamiks	FACE Academy	FACE Academy
29th Aug	Soft Skill Training - Aerodynamiks	Soft Skill Training -	Company Specific Training-	Company Specific Training-
		Aerodynamiks	FACE Academy	FACE Academy
30 th Aug	Soft Skill Training - Aerodynamiks	Soft Skill Training -	Company Specific Training-	Company Specific Training-
		Aerodynamiks	FACE Academy	FACE Academy
31st Aug	Company Specific Training-	Company Specific Training-	Soft Skill Training - Aerodynamiks	Soft Skill Training -
_	FACE Academy	FACE Academy		Aerodynamiks
1st Sep	Company Specific Training-	Company Specific Training-	Soft Skill Training - Aerodynamiks	Soft Skill Training -
_	FACE Academy	FACE Academy		Aerodynamiks
2 nd Sep	Company Specific Training-	Company Specific Training-	Soft Skill Training - Aerodynamiks	Soft Skill Training -
•	FACE Academy	FACE Academy	Į ,	Aerodynamiks

Batches for Aptitude Training (Laptops and Mobile Phones not allowed for Aptitude Training)

Branches & USN	Room Nos.
CSE- 4AL20CS001 to 4Al20CS090	311
CSE- 4AL20CS091 to 4Al20CS405	312
All AIML + ECE: 4AL20EC001 to 4AL20EC036	202
All ISE + ECE: 4AL20EC037 to 4AL20EC062	302
	CSE- 4AL20CS001 to 4Al20CS090 CSE- 4AL20CS091 to 4Al20CS405 All AIML + ECE: 4AL20EC001 to 4AL20EC036



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Date/Group	G 1	G2	G3	G4	G5(ECE)
15-03-2023	Address by Principal/HoDs/Pla	cement Officer, Assessment a	nd Senior Students Interact	ions at Department Level	
16-03-2023	Structures, Pointers, Strings	Structures, Pointers, Strings	Structures, Pointers,	Structures, Pointers,	
	and Arrays, Pointers to	and Arrays, Pointers to	Strings and Arrays,		
	Structures	Structures	Pointers to Structures	Pointers to Structures	
	(Dr.Mohideen Badhusha S)	(Prof.Venkatesh)	(Ms.Soundarya B C)	(Mr.Kiran Raj K M)	
17-03-2023	Sorting Techniques,	Sorting Techniques,	Sorting Techniques,	Sorting Techniques,	
	Searching Techniques	Searching Techniques	Searching Techniques	Searching Techniques	
	(Dr.Mohideen Badhusha S)	(Prof.Venkatesh)	(Ms.Soundarya B C)	(Mr.Kiran Raj K M)	
18-03-2023	Stacks and Queues, Linked	Stacks and Queues, Linked	Stacks and Queues,	Stacks and Queues,	
	Lists	Lists	Linked Lists	Linked Lists	
	(Dr.Mohideen Badhusha S)	(Prof.Venkatesh)	(Ms.Soundarya B C)	(Mr.Kiran Raj K M)	
19-03-2023					
20-03-2023	Tress: BST(Binary Search	Tress: BST(Binary Search	Tress: BST(Binary	Tress: BST(Binary	
	Tree), STL(Standard	Tree), STL(Standard	Search Tree),	Search Tree),	
	Template Library), Tree DP,	Template Library), Tree	STL(Standard Template	· · · · · · · · · · · · · · · · · · ·	
	Trees, BFS, DFS,	DP, Trees, BFS, DFS,	Library), Tree DP, Trees,		
	DSU(Disjoint Set Union)	DSU(Disjoint Set Union)	BFS, DFS, DSU(Disjoint		
	MST(minim Spanning Tree)	MST(minim Spanning	Set Union) MST(minim	,	
	(Mr.Rizawan N.Shaikh).	Tree)	Spanning Tree)	Spanning Tree)	
		(Mrs.Deepika Kamath)	(Mrs.Deeksha M)	(Mr.Pradeep V)	
21-03-2023	Data Structures	DAGs(directed acyclic	DAGs(directed acyclic		
	(Dr.Roshan Fernandes)	graph) and SCCs(Strongly	graph) and	0 1 /	
		Connected Components),	SCCs(Strongly	SCCs(Strongly	
		Square Root	Connected Components),		
		Decomposition	Square Root		
		,Asymptotic Analysis,	Decomposition	Decomposition	
		Greedy Algorithms	,Asymptotic Analysis,		
		(Mrs.Deepika Kamath)	Greedy Algorithms	Greedy Algorithms	
			(Mrs.Deeksha M)	(Mr.Pradeep V)	



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22-03-2023					
23-03-2023	Data Structures	Recursion, Dynamic	Recursion, Dynamic	Recursion, Dynamic	
	(Dr.Roshan Fernandes)	Programming,	Programming,	Programming,	
		Backtracking	Backtracking	Backtracking	
		(Mrs.Deepika Kamath)	(Mrs.Deeksha M)	(Mr.Pradeep V)	
24-03-2023	DAGs(directed acyclic graph)				
	and SCCs(Strongly				
	Connected Components),				
	Square Root Decomposition				
	,Asymptotic Analysis, Greedy				
	Algorithms				
	(Mr.Rizawan N.Shaikh)				
25-03-2023	Data Structures				
	(Dr.Roshan Fernandes)				
26-03-2023	Algorithms	Data Structures			
	(Dr.Prasanna Kumar H R)	(Dr.Roshan Fernandes)			
27-03-2023	Algorithms				
	(Dr.Prasanna Kumar H R)				
28-03-2023	Recursion, Dynamic	Data Structures			
	Programming, Backtracking	(Dr.Roshan Fernandes)			
	(Mr.Rizawan N.Shaikh)				
29-03-2023					
30-03-2023		Data Structures			
		(Dr.Roshan Fernandes)			
31-03-2023					
01-04-2023					
01-04-2023					
02-04-2023		Algorithms			
		(Dr.Prasanna Kumar H			
		R)			
03-04-2023		Algorithms			



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	(Dr.Prasanna Kumar H			
	R)			
04-04-2023				
05-04-2023				
06-04-2023				
07-04-2023		Algorithms		
		(Dr.Prasanna Kumar H		
		R)		
08-04-2023		Algorithms		
		(Dr.Prasanna Kumar H		
		R)		
09-04-2023				
10-04-2023				
11-04-2023				
12-04-2023				
13-04-2023				
14-04-2023			Algorithms	
			(Dr.Prasanna Kumar H	
			R)	
15-04-2023			Algorithms	
			(Dr.Prasanna Kumar H	
			R)	
16-04-2023				
17-04-2023				
18-04-2023				
19-04-2023				
20-04-2023	 			
21-04-2023				
22-04-2023				



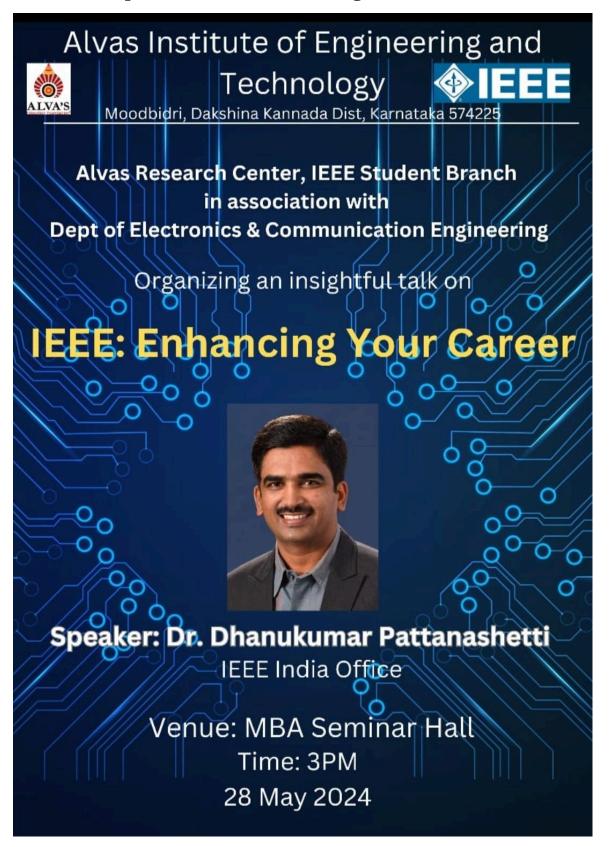
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Report on "IEEE - Enhancing Your Career" Talk





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Event Details

Date: May 28, 2024

Venue: MBA Seminar Hall, Alvas Institute of Engineering and Technology, Moodbidire

Organized by: Department of Electronics and Communication Engineering (E&CE)

Speaker: Dr. Dhanukumar Pattanashetty

Introduction to IEEE

The Institute of Electrical and Electronics Engineers (IEEE) is a leading professional association dedicated to advancing technological innovation and excellence. Founded in 1963 through the merger of the American Institute of Electrical Engineers (AIEE) and the Institute of Radio Engineers (IRE), IEEE is now a global organization with over 400,000 members in more than 160 countries.

Key Objectives of IEEE:

- Standards Development: IEEE develops and promotes internationally recognized standards for a wide range of technologies, including electrical, electronic, and computer engineering.
- Professional Development: IEEE provides numerous opportunities for members to enhance their skills and knowledge through conferences, workshops, and educational resources.
- Publications: The IEEE publishes a vast array of journals, magazines, and conference proceedings that cover the latest research and developments in engineering and technology.
- Networking Opportunities: IEEE facilitates professional networking through local chapters, technical societies, and global events.

IEEE's Impact on Careers:

- Certification and Recognition: IEEE offers certifications and awards that recognize professional achievements and contributions to the field.
- Career Resources: Members gain access to job boards, career counseling, and mentoring opportunities.
- Continuing Education: IEEE provides access to webinars, online courses, and technical papers to help professionals stay updated with the latest trends and technologies.

Event Overview

Speaker: Dr. Dhanukumar Pattanashetty, an expert in the field with extensive experience in



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IEEE and professional development, delivered the keynote address on enhancing career prospects through IEEE involvement.

Topics Covered:

- 1. Benefits of IEEE Membership: Dr. Pattanashetty highlighted how IEEE membership can open doors to numerous professional opportunities, including access to a wide network of professionals, industry-leading publications, and exclusive educational resources.
- 2. Career Development Resources: The talk emphasized the various career development tools available through IEEE, such as workshops, certifications, and networking events that can significantly impact career advancement.
- 3. Success Stories: Dr. Pattanashetty shared real-life examples of professionals who have leveraged IEEE resources to enhance their careers, providing practical insights and inspiration to the attendees.

Audience: The talk was attended by students from the E&CE department, faculty members, and IEEE representatives, including the Head of the Department Dr. Siddesh G. K., Dean of Planning Dr. Dattathreya, IEEE Branch Counsellor Dr. Manjunath Kothari, Dr. Manjunath, Dr. Ganesh V. N, Dr. G. B. Vaggar and Dr. Guruprasad. The event was well-received, with active participation and engagement from the audience.

Coordinator: The event was meticulously organized by Dr. Ganesh K., who ensured that all logistical arrangements were in place for a smooth and successful session.

Conclusion

The "IEEE - Enhancing Your Career" talk provided valuable insights into how IEEE can be a significant catalyst for career growth and professional development. Dr. Pattanashetty's presentation equipped attendees with practical knowledge on leveraging IEEE resources to advance their careers and highlighted the importance of active involvement in professional organizations. The event successfully fulfilled its objective of informing and inspiring students and professionals about the benefits of IEEE membership and engagement.



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Department of Electronics & Communication Engineering

List of students attended the IEEE Event

		6 TH SEM (A SECTION)
#	USN	Student Name
1	4AL21EC002	ABHISHEK S
2	4AL21EC003	AKASH A H
3	4AL21EC007	Anchita
4	4AL21EC009	B.VENNELA
5	4AL21EC013	Bharath N
6	4AL21EC020	Chethan K.M
7	4AL21EC024	Darshana Basavaraj Bandi.
8	4AL21EC026	Deekshith D Shetty
9	4AL21EC031	Hemanth R
10	4AL21EC035	Jeevan K G
11	4AL21EC036	JEEVAN V
12	4AL21EC039	Keerthan S
13	4AL21EC041	Kishor U
14	4AL21EC042	Lakshan
15	4AL21EC043	Lakshmi Keerthana B
16	4AL21EC052	Muhammad Razi
17	4AL21EC054	Naveen Kumar H S
18	4AL21EC062	Prajwal s das
19	4AL21EC104	Vaishnavi S
20	4AL22EC401	CHETANA A BURUD
21	4AL22EC403	LAKSHMI BALAKKANAVAR
22	4AL22EC405	PALLAVI A BHOOMANAGOUDRA
23	4AL21EC037	kalmesh G Galigoudra
24	4AL21EC022	Chithra L



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Department of Electronics & Communication Engineering

1 4AL21EC056 Nivedita T Patil 2 4AL21EC057 Prajyot Rajgonda Patil 3 4AL21EC058 Pavan 4 4AL21EC066 Raksha 5 4AL21EC067 Rakshith 7 4AL21EC069 Ravi Kovi 8 4AL21EC070 Sahana 9 4AL21EC071 Saikumar 10 4AL21EC073 Sanjana Shrikant Havanoor 11 4AL21EC074 Santhosha S 12 4AL21EC076 Shashank C Soppannavar 13 4AL21EC079 Shivakumar K V 14 4AL21EC081 Shreya Chandrahasa Shetty 15 4AL21EC082 Shreya K R 16 4AL21EC083 Shreyas S Naik 17 4AL21EC086 Sinchana C K 18 4AL21EC087 Sinchana R 19 4AL21EC091 Sindhu S Patil 20 4AL21EC093 Srishti S Shetty 21 4AL21EC094 Suma K G 23 4AL21EC095 Tanishka <th></th> <th>6[™] SEM</th> <th>(B SECTION)</th>		6 [™] SEM	(B SECTION)
3 4AL21EC058 Pavan 4 4AL21EC059 Pooja Venkatesh Naik 5 4AL21EC066 Raksha 6 4AL21EC067 Rakshith 7 4AL21EC070 Sahana 9 4AL21EC071 Saikumar 10 4AL21EC073 Sanjana Shrikant Havanoor 11 4AL21EC074 Santhosha S 12 4AL21EC076 Shashank C Soppannavar 13 4AL21EC079 Shivakumar K V 14 4AL21EC081 Shreya Chandrahasa Shetty 15 4AL21EC082 Shreyas S Naik 16 4AL21EC083 Shreyas S Naik 17 4AL21EC084 Sinchana C K 18 4AL21EC087 Sinchana R 19 4AL21EC091 Sindhu S Patil 20 4AL21EC092 Sonali 21 4AL21EC093 Srishti S Shetty 22 4AL21EC094 Suma K G 23 4AL21EC095 Tanishka 25 4AL21EC096 Sushrutha N	1	4AL21EC056	Nivedita T Patil
4 4AL21EC059 Pooja Venkatesh Naik 5 4AL21EC066 Raksha 6 4AL21EC067 Rakshith 7 4AL21EC069 Ravi Kovi 8 4AL21EC070 Sahana 9 4AL21EC071 Saikumar 10 4AL21EC073 Sanjana Shrikant Havanoor 11 4AL21EC074 Santhosha S 12 4AL21EC076 Shashank C Soppannavar 13 4AL21EC076 Shashank C Soppannavar 13 4AL21EC079 Shivakumar K V 14 4AL21EC081 Shreya C Rawinar K V 15 4AL21EC082 Shreya K R 16 4AL21EC083 Shreyas S Naik 17 4AL21EC084 Sinchana C K 18 4AL21EC087 Sinchana R 19 4AL21EC091 Sindhu S Patil 20 4AL21EC092 Sonali 21 4AL21EC093 Srishti S Shetty 22 4AL21EC094 Suma K G 23 4AL21EC095 Thejas J Kotian	2	4AL21EC057	Prajyot Rajgonda Patil
5 4AL21EC066 Raksha 6 4AL21EC067 Rakshith 7 4AL21EC069 Ravi Kovi 8 4AL21EC070 Sahana 9 4AL21EC071 Saikumar 10 4AL21EC073 Sanjana Shrikant Havanoor 11 4AL21EC074 Santhosha S 12 4AL21EC076 Shashank C Soppannavar 13 4AL21EC079 Shivakumar K V 14 4AL21EC081 Shreya Chandrahasa Shetty 15 4AL21EC082 Shreya K R 16 4AL21EC083 Shreyas S Naik 17 4AL21EC086 Sinchana C K 18 4AL21EC087 Sindhu S Patil 20 4AL21EC091 Sindhu S Patil 20 4AL21EC092 Sonali 21 4AL21EC093 Srishti S Shetty 22 4AL21EC094 Sum K G 23 4AL21EC094 Sum K G 24 4AL21EC095 Thejas J Kotian 25 4AL21EC009 Thejashwi P Acharya </td <td>3</td> <td>4AL21EC058</td> <td>Pavan</td>	3	4AL21EC058	Pavan
6 4AL21EC067 Rakshith 7 4AL21EC070 Sahana 9 4AL21EC071 Saikumar 10 4AL21EC073 Sanjana Shrikant Havanoor 11 4AL21EC074 Santhosha S 12 4AL21EC076 Shashank C Soppannavar 13 4AL21EC079 Shivakumar K V 14 4AL21EC081 Shreya Chandrahasa Shetty 15 4AL21EC082 Shreya K R 16 4AL21EC083 Shreyas S Naik 17 4AL21EC086 Sinchana C K 18 4AL21EC087 Sinchana R 19 4AL21EC091 Sindhu S Patil 20 4AL21EC092 Sonali 21 4AL21EC093 Srishti S Shetty 22 4AL21EC094 Suma K G 23 4AL21EC094 Suma K G 23 4AL21EC096 Sushrutha N 24 4AL21EC097 Tanishka 25 4AL21EC000 Thejas J Kotian 26 4AL21EC101 Thrisha P Hegde </td <td>4</td> <td>4AL21EC059</td> <td>Pooja Venkatesh Naik</td>	4	4AL21EC059	Pooja Venkatesh Naik
7 4AL21EC069 Ravi Kovi 8 4AL21EC070 Sahana 9 4AL21EC071 Saikumar 10 4AL21EC073 Sanjana Shrikant Havanoor 11 4AL21EC074 Santhosha S 12 4AL21EC076 Shashank C Soppannavar 13 4AL21EC079 Shivakumar K V 14 4AL21EC081 Shreya Chandrahasa Shetty 15 4AL21EC082 Shreya K R 16 4AL21EC083 Shreyas S Naik 17 4AL21EC083 Shreyas S Naik 18 4AL21EC086 Sinchana C K 18 4AL21EC087 Sindhu S Patil 20 4AL21EC091 Sindhu S Patil 20 4AL21EC092 Sonali 21 4AL21EC093 Srishti S Shetty 22 4AL21EC094 Suma K G 23 4AL21EC095 Tanishka 24 4AL21EC097 Tanishka 25 4AL21EC099 Thejas J Kotian 26 4AL21EC100 Thrisha P Hegde 27 4AL21EC101 Thrisha P Hegde	5	4AL21EC066	Raksha
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Department of Electronics & Communication Engineering

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36	4AL21EC114	Yashwanth GT
37	4AL21EC115	Yogeshwar M
38	4AL22EC404	Navaneeth

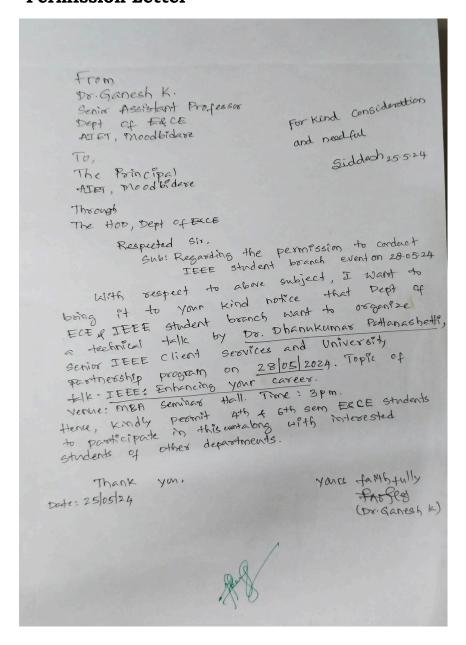


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Permission Letter





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Event Photos





Alva's Institute of Engineering & Technology,

Shobhavana Campus, Mijar, Moodbidri Dakshina Kannada, Karnataka - 574225





Internal Quality Assurance Cell (IQAC)

82

Department of Civil Engineering Organises





Three-days hands-on workshop

Basics of Remote Sensing and Geographical Information Systems.

28th to 30th August 2023





Venue: CAD lab, Dept. of Civil Engineering AIET, Mijar Moodbidri

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Internal Quality Assurance Cell (IQAC) &

Department of Civil Engineering,

Alva's Institute of Engineering and Technology (AIET), Mijar, Dakshina Kannada

Organizes a three-day hands-on workshop on "Basics of Remote Sensing and Geographic Information Systems"

The workshop aimed to disseminate knowledge on geospatial among the young minds and teaching faculties, i.e., GIS and Remote Sensing emphasizing the need of multidisciplinary approaches.

About AIET

Alva's Institute of Engineering and Technology in Moodbidri stands as a testament to the pursuit of academic excellence and holistic development.

Established with the aim of fostering academic excellence and holistic development in 2008, the institute is affiliated to Visvesvaraya Technological University, Belagavi. Through its comprehensive programs, dedicated faculty, modern infrastructure (state of the art classrooms, well equipped laboratories, a library with a vast collection of academic resources) and commitment to innovation, the institute plays a significant role in shaping the future engineers and technologists of India

Located in Moodbidri, Karnataka, Alva's educational institution has continually focused on providing quality engineering and technical education to its students and to support them both in academic and extracurricular activities.

AIET is associated with numerous Government and Private Organizations thus working on research and consultancy projects. AIET currently has MoU's with reputed organizations viz., ISRO, NRSC, NAL, RRSC, IIT's, IISc, NIT's, and so on...

Day 1

Inaugural Session

The three day workshop on Basics of Remote Sensing and Geographic Information Systems was held between August 28-30, 2023 at CAD lab, Civil Engineering Department, Alva's Institute of Engineering and Technology, Moodbidri. The workshop began at 9:30 AM with the lighting of the lamps. Dr. H Ajith Hebbar, welcomed the gathering addressing the



need of geospatial and its importance in the real world. He also spoke about the Geoinformatics Research Lab budding at AIET, which will focus on multidisciplinary aspects research integrating engineering, science, humanitarian and various other disciplines. Dr Kurian, the Guest of Honour (Principal Alva's Degree College) gave a keynote address indicating the knowledge system that had evolved in India, and now we are concentrating/studying one aspect viz., Civil, Agricultural, Economics, Sociology, Botany, Zoology, Electronics, Computres etc. He also emphasized the need of cross domain knowledge and how youngsters can adapt them for getting edge in the competitive world. Dr. H G Umeshchandra thanked the guests, principal, management, colleagues, students for the support extended.



Figure: Dr Kurian (Principal, Alvas Degree College) addressing the gathering

Introduction to Remote Sensing and Geographic Information System

Dr. Vinay S, spoke about the basics of RS & GIS followed by select applications. Starting with RS he explained what RS along the working principle is. He elaborated and related the human body with Remote Sensing Sensors. Electromagnetic Spectrum and the role of Spectral Reflectance across various wavelengths was elaborated with real world examples of Deciduous and Evergreen species. Importance of Falce Colour composition was emphasized with help of an aerial images. Based on where the images/photographs were taken, satellite platforms were categorized. Light was thrown on Visual image interpretation and digital image interpretation. Digital image interpretation involves patten classification, segmentation, image enhancement, machine learning, etc. He also spoke on evolution of Remote Sensing at Global and Indian context. This was followed by explanation of various resolutions viz spatial, spectral radiometric and temporal. This was followed by describing Geographical Information System and how as an entity each of the departments can contribute to the common platform. Dr Vinay spoke about the capabilities and requirements of GIS, data types and operations that can be performed. He also elaborated on WebGIS and mobile GIS and their implementation and applicability. He also emphasized various applications that included hydrology, forestry, disaster management, environmental economics, climate change etc. afternoon, he spoke on Maps and Projections, important components of map, scale, map types, etc. in the hands on session, the training focused on importing satellite data from the web portals.



Fig. Dr Vinay S addressing the participants

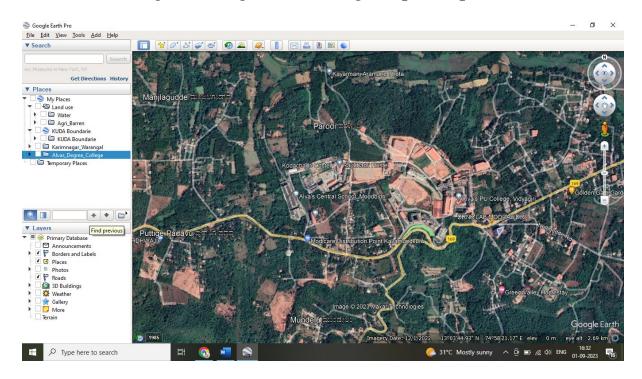


Fig. Google Earth (Screenshot)

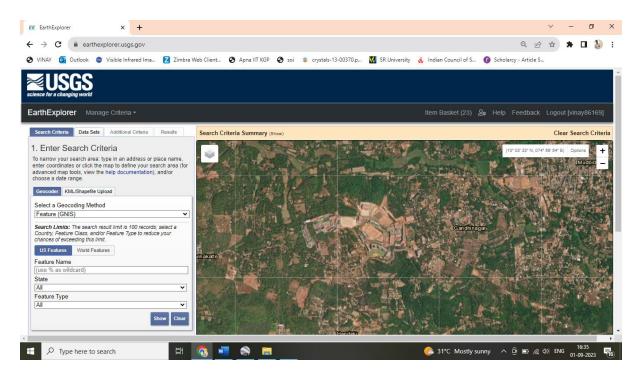


Fig. Earthexplorer (Screenshot)

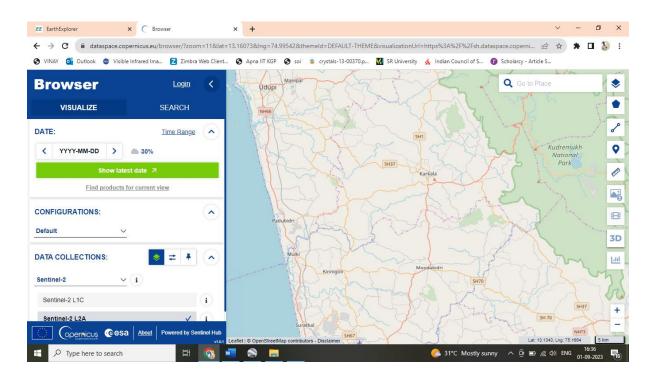


Fig. Dataspace Copernicus (Scrrenshot)

Day 2

Dr Umeshchandra H G, explained in detail about various data structures used in GIS. He explained about vector file formats, raster file formats, attributes. He also elaborated of the likely advantages and disadvantages, errors, limitations of the spatial data. He also elaborated about the models viz., Spaghetti, Topology, TIN, DEM, etc. Dr Umeshchandra elaborated about compression of Raster data which is essential for distribution. Speaking about vectors he explained about the applicability of points, lines and polygons. He also showed how a real world data can be put in GIS using vectors and rasters while integrating spatial data.



Fig. Dr H G Umeshchadra addressing the participants

Dr Vinay spoke about QGIS, its development, various libraries that are a commonality in both open source and commercial software's. He started the hands-on by showing the layout of QGIS, Plugins etc. On this day, the following components were thought.

- Data importing into the QGIS platform
- Querying and exporting
- Vector mathematics (or, and, sum, geometry, etc)

- Creation of fields,
- Preparation of thematic maps
- Georeferencing of data
- Importing an excel file (CSV)
- Joining multiple databases
- Interpolating data
- Extracting information to the required area of interest

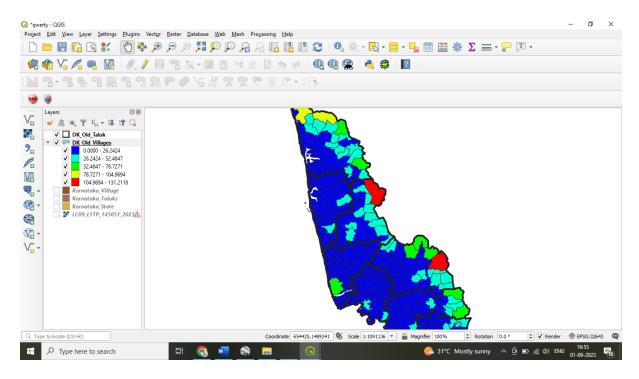


Fig. Screenshot of QGIS

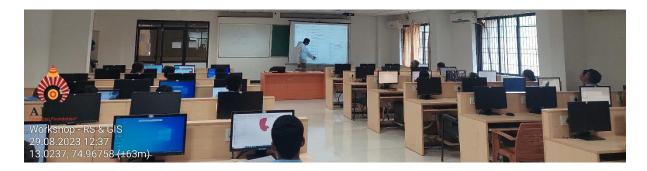


Fig. Participants working on QGIS

Day 3

The workshop began with a revision of the previous class so as to clear the doubts if any. Image processing software viz., GRASS GIS was introduced. The participants were trained about GRASS GIS, such as creating location, mapsets and their importance. Data importing, calculation of vegetation and water indices was explained. This was followed by preparation of Colour composites (TCC and FCC) that are necessary for identification of features. Machine learning using GMLC algorithm was further demonstrated to analyse the land use in the study area. at the end before concluding session, Dr. Vinay demonstrated all the steps carried out for the day using GRASS GIS in a span of 40 minutes.

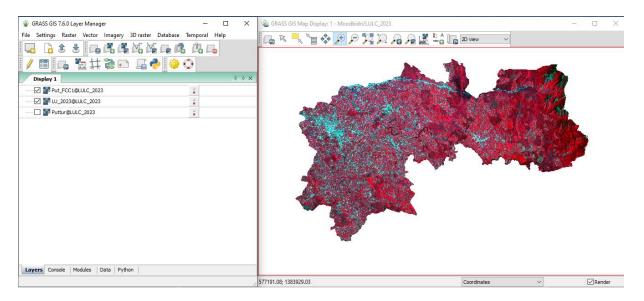


Fig. Screenshot of GRASS GIS

Concluding Session

The Concluding session started at 4:00 PM at CAD lab, Department of Civil Engineering. Dr. Vinay S gave the report of the entire workshop indicating the importance and some deliberations that happened during the workshop hours. Participants were requested to give their feedback and comments over the workshop, for all the participants the concept was new and for few it triggered new ideas, while for



science background students handling computers was a tough task.

Dr. Peter Fernandes, Principal AIET and Chairman spoke about the workshops, training programmes that are very common in AEF but the concern was that these were never taken forwards by the participants, he urged the students to move forward in the direction and use the resource person who is specifically brought for GIS and RS. He congratulated the participants, IQAC, Dept of Civil Engineering for completing the workshop. Mr. Vivek Alva spoke about his passion towards space and geospatial. He also indicated about the creation of New Geoinformatics Research Laboratory and asked the participants to take part in the upcoming works pertaining to Western Ghats. He also emphasized the need of multidisciplinary aspect that are necessary for imposing information to the public, decision makers etc. He spoke about humungous data that are available for carrying out spatial analytics that are of need for the current time. Dr. H Ajith Hebbar thanked the management, principal, Dept of Civil Engineering, Colleagues, Participants for supporting and being parts of the workshop.









Fig. Participants giving their feedback





Fig. Participants giving their feedback

Workshop Outcomes

The workshop focused on giving ideas on basics of remote sensing and GIS with hands on training. The participants were able to develop maps, query data, distinguish between different data types, perform land use analysis and land cover analysis using indices and probability based supervised classification techniques (Gaussian Maximum likelihood). The participants were exposed to software's such as GRASS GIS, QGIS, Google Earth. The various sources of data were demonstrated and practiced.

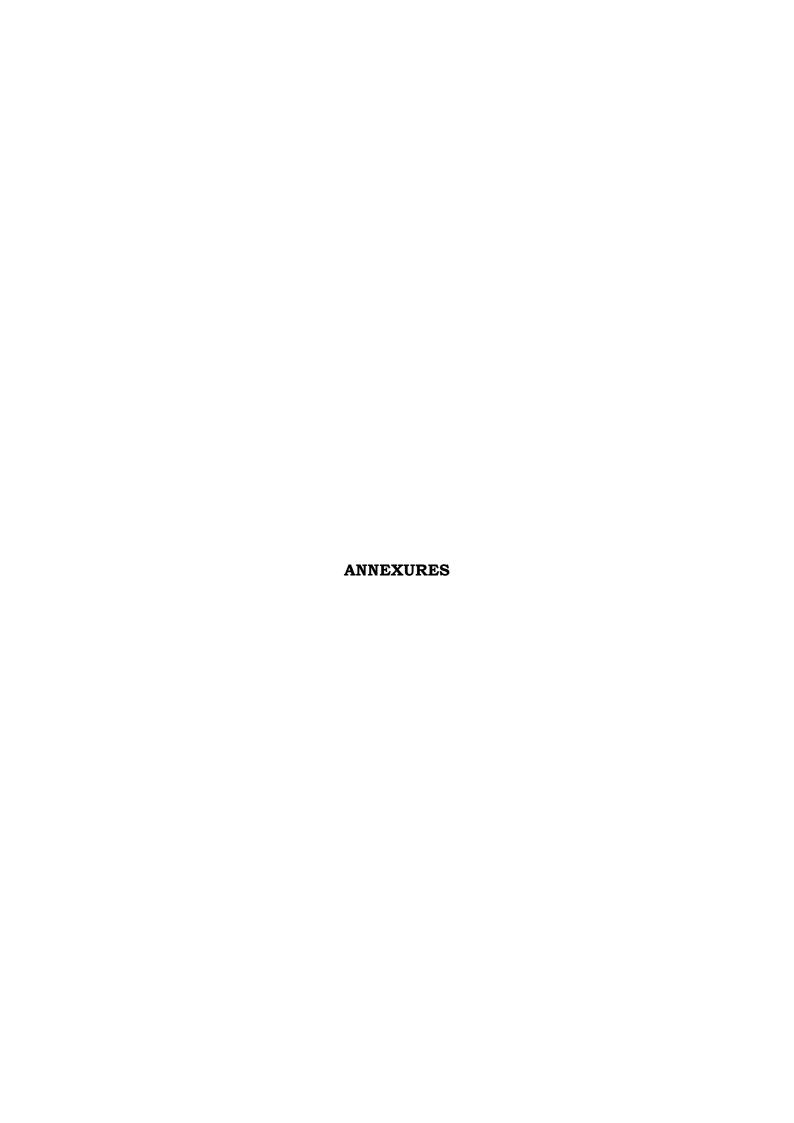
Convener

Associate Professor,
Civil Engineering
AIET, Mijar

Dr H Ajith Hebbar

Professor & Head Civil Engineering, AIET, Mijar Dr Peter Fernandes

Chairman IQAC & Principal
AIET, Mijar



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Ref.No.: AIET/IQAC/2022-23/

24/08/2023

Internal Quality Assurance Cell (IQAC) **Department of Civil Engineering**

To.

Dr. Peter Fernandes **IQAC** Chairman AIET, MIJAR

Subject: Request permission to conduct 3 day hands on workshop on Basic of Remote Sensing and Geographical Information Systems.

Respected Sir,

We are pleased to inform you that AIET-IQAC & Dept of Civil Engineering, are planning to organize a three-day workshop from 28th to 30th August 2023. The event will be conducted for faculty members and select students across all the departments of AIET and Alva's Degree College. We are planning this workshop for 30 participants with an E-Certificate.

We would request you to kindly permit to proceed with the activities planned. Your valuable suggestions and support in this endeavor would be greatly appreciated.

Thank you for your consideration.

(Attached here with the schedule of the workshop)

Geoinformatics Research Lab, Associate Prof. Dept of Civil Eng.

AIET, MIJAR

Dr. Ajith Hebbar

HoD, Civil Engineering

AIET, MIJAR

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Schedule

Date\Time	9:15 to 10:30	10:30 to 10:45	10:45 to 12:45	12:45 to 1:45	1:45 to 3:15	3:15 to 3:30	3:30 to 5:00
			GIS & RS with		Maps and		Data Source and
28 Aug 2023	Inauguration		Applications (Dr. Vinav S)		Projection (Dr. Vinay S)		Google Earth (Dr. Vinay S)
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29 Aug 2023	Vector and Raster Operations Operations	Break	QGIS (Dr. Vinay S)	Lunch Break	QGIS (Dr. Vinay S)	Break	QGIS (Dr. Vinay S)
30 Aug 2023	GRASS GIS (Dr. Vinay S)		GRASS GIS (Dr. Vinay S)		GRASS GIS (Dr. Vinay S)		Conclusion (4:00 to 5:00)

Contents

- What is Remote Sensing and GIS
- Applications of GIS and Remote Sensing in various domains (Examples)
- What is Map and How to develop maps
- Various Data sources viz., Earth explorer, Survey of India, Bhuvan...etc.
- Working with vectors in Google Earth
- Image processing basics for remote sensing
- Preparation of layers, querying, georeferencing, adding attributes, preparing Maps in QGIS, (Vector Operations)
 - Digital image Processing Indices, Supervised classification, (Raster Operations



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24/08/2023

CIRCULAR

It is here by informed that a three day hands on workshop on Fundamentals of Remote Sensing and Geographical Information System would be organized by IQAC in association with Department of Civil Engineering during 28th and 30th of August 2023, the venue being CAD Lab, department of Civil Engineering. In this regards all the HODs (Engg and Basic Science) are requested to depute at least one faculty and 2 students (2nd Sem & 4th Sem) for the workshop from each department.

(Course content and Schedule attached herewith)

Dr. Peter Fernandes Principal & IQAC Chairman

AIET MIJAR

Alva's Institute of Engg. & Technology, Mijar, MOODBIDRI - 574 225, D.K

To

All Deans of AIET

All Heads of AIET

Principal Alva's Degree College.

Schedule

Date\Time	9:15 to 10:30	10:30 to 10:45	10:45 to 12:45	12:45 to 1:45	1:45 to 3:15	3:15 to 3:30	3:30 to 5:00
28 Aug 2023	Inauguration		GIS & RS with Applications (Dr. Vinay S)		Maps and Projection (Dr. Vinay S)		Data Source and Google Earth (Dr. Vinay S)
29 Aug 2023	Vector and Raster Operations (Dr. Umeshchandra)	Break	QGIS (Dr. Vinay S)	Lunch Break	QGIS (Dr. Vinay S)	Break	QGIS (Dr. Vinay S)
30 Aug 2023	GRASS GIS (Dr. Vinay S)		GRASS GIS (Dr. Vinay S)		GRASS GIS (Dr. Vinay S)		Conclusion (4:00 to 5:00)

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Shobhavana Campus, Mijar, Moodbidri
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28/08/2023

Workshop on BASIC OF REMOTE SENSING AND GEOGRAPHICAL INFORMATION SYSTEMS

Registration Form

SL.NO	USN/ ID	NAME	DEPARTMENT	CONTACT NO	EMAIL ID	SIGNATURE
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ALVA'S Education Foundation

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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30 August 2023

To whomsoever it may concern

This is to certify that Mr. Prasanna B M, Dept. of PG Physics, Alva's Degree College has attended the 3 day hands on workshop on Basics of Remote Sensing and Geographical Information Systems from 28th to 30th August 2023 organised by AIET-IQAC & Dept of Civil Engineering.

Dr. Ajith Hebbar HoD, Civil Engineering AIET, MIJAR

H,O.D.

Dept. of Civit Engineering
Alva's Institute of Engg. & Tr

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30 August 2023

To whomsoever it may concern

This is to certify that Mr. Sudheendra J Shanthi, Dept. of UG BSW, Alva's Degree College has attended the 3 day hands on workshop on Basics of Remote Sensing and Geographical Information Systems from 28th to 30th August 2023 organised by AIET-IQAC & Dept of Civil Engineering.

Dr. Ajith Hebbar HoD, Civil Engineering AIET, MIJAR

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Dept. of Civil Engineering Alva's Institute of Engg. & T Mijar, Moodbidri - 57...















































































Alva's Institute of
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Shobhavana Campus, Mijar, Moodbidri
Dakshina Kannada, Karnataka - 574225



Alva's Institute of Engineering and Technology



Internal Quality Assurance Cell (IQAC),
Geoinformatics Research Lab,

AIET IEEE Student Branch Chapter
(STB60215368)





Institute Innovation Council – AIET



Jointly Organises



Five-Days workshop on

Innovative Tools and Methods for Satellite Image Processing





30th October 2023 to 4th November 2023



Venue: DS Lab, Dept of AI & ML AIET, Mijar, Moodbidri



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Internal Quality Assurance Cell (IQAC) Geoinformatics Research Lab IEEE- Student Branch Chapter – AIET (STB60215368) Institute Innovation Council – AIET

Alva's Institute of Engineering and Technology (AIET), Mijar, Moodbidri, Dakshina Kannada

Organises a five-day hands-on workshop on "Innovative Tools and Methods for Satellite Image Processing"

The workshop aimed to enhance the skills with knowledge in the domain of Remote Sensing amongst the young minds using state of the art tools focused on AI, ML, Image Processing.

About Geoinformatics Research Lab

Geoinformatics Research Lab aims to leverage geospatial technology and data to solve complex spatial problems, contribute to scientific research, inform policy decisions, and enhance the knowledge of interconnectedness of natural and human systems on a geographic scale.

With an immediate vision of Monitoring the Fragile Western Ghats Ecosystems using geospatial technologies involving multidisciplinary approaches to promote sustainability, conservation and management.

This involves mapping visualizing and simulating the land use and land cover changes, its associated processes in the Western Ghats and Coastline using geospatial tools and disseminating the information to public, researchers, decision makers though web portals (WebGIS) and mobile applications (Mobile GIS), etc.

GIS lab is responsible for training budding researchers, teachers across domain for integrating the geospatial data.

Alva's Institute of Engineering and Technology

Alva's Institute of Engineering and Technology in Moodbidri stands as a testament to the pursuit of academic excellence and holistic development.

Established with the aim of fostering academic excellence and holistic development in 2008, the institute is affiliated to Visvesvaraya Technological

University, Belagavi. Through its comprehensive programs, dedicated faculty, infrastructure and commitments towards innovation, the institute plays a significant role in shaping the future decisionmakers, technologists and engineers of India.

Located in Moodbidri, the Institute has continually focused on providing quality engineering and technical education to its students and to support them both in academic and extracurricular activities.

AIET is associates with numerous Government, Non-Government and Private Organisations with a focus on research and consultancy projects. AIET currently has MoU's with reputed national level organizations viz., ISRO, NRSC, NIAS, NAL, RRSC, IIT, NIT and many more.

Day 1. Inauguration

The five-day workshop on "Innovative Tools and Methods for Satellite Image Processing" was held between 30th October and 4th November 2023 at DS lab, Dept of AI and ML. The workshop began at 9:30 AM with lighting of lamps. Dr. Majunath Kotari, HoD CSE and IEEE-faculty coordinator- AIET welcomed the gathering and addressed the need for Geospatial tools in the digital world. Dr. Vinay S, highlighted the applications of GIS, Remote Sensing and need of interdisciplinary research and studies for addressing real world problems. He also highlighted about the contents deliverable in the workshop. The speech underscored the importance of GIS in promoting innovation, sustainability, and informed decision-making across various industries. The audience gained valuable insights into the practical applications of GIS and its significant impact on addressing real-world challenges.

Dr. Dattathreya, Dean Planning and IQAC main Coordinator, expressed his thoughts and need geospatial tools. He elaborated on how ISRO, NRSC and AIET have collaborated worked in the past as a result, AIET is a testament for developing skills of student.

Dr. Peter Fernandes, Principal AIET, in his presidential address indicated the role of Remote Sensing in the growing world and its importance in decision making. He emphasized on how GIS has been extensively used across multiple domains. He emphasized the importance of conducting multidisciplinary research and urged the students to think beyond the box to comprehend and resolve real-world issues. He appreciated the move of inducing the students as resource persons for the event.

The vote of thanks was given by Mr. Neerav Patel, Chairman of IEEE-Student Branch Chapter. He expressed our gratitude to the organisation, principal, deans and faculty, students, and IEEE for their support.



Fig: Welcoming the Gathering - Dr. Majunath Kotari



Fig: Lighting of Lamps



Fig: About the Workshop - Dr Vinay S



Fig: Presidential Address - Dr. Peter Fernandes

Introduction to Remote Sensing

Dr. Vinay S introduces the very basics of remote sensing, providing a comprehensive understanding on the domain. He introduced the key components of remote sensing, principal, the physics behind it and explained their significance and future prospects. The session covered topics viz., energy interactions in the atmosphere, (including the different types of reflection,

such as specular and diffuse reflection); remote sensing platforms; Spectral reflection curves; Resolutions (Spatial, spectral, temporal, radiometric). The session also included an in-depth analysis of remote sensing satellite images, deliberated on how to interpret and analyze the satellite images.



Fig: Participants

Digital Image Processing

Mr. Vedanth conducted a highly effective and detailed session on image processing. He explained the basics of image processing, starting with introduction to images, resolution, and aspect ratio. He also provided insights on using various libraries and tools in Python for image processing. The importance of image processing, including image compression, restoration, and denoising, was also discussed in detail. We also installed PyCharm, which is a crucial tool for image processing. The session concluded with a group quiz based on the topic of image processing, which was fun and effective way to reinforce our learning.



Fig: Digital Image Processing - Mr. Vedanth

Day 2: Artificial Intelligence and Machine Learning

Mr. Satyam systematically elucidated the concepts and components of AI and ML, commencing with an overview of what AI is and the genesis of its formation. He highlighted AI's role in automating routine tasks, such as image classification and pattern recognition, while intermediate AI delves into more complex functions like predictive analysis and route optimization. The advanced applications of AI in GIS incorporate machine learning, deep learning, and neural networks, enabling sophisticated spatial analysis and decision-making.

Spatial data analysis in GIS involves scrutinizing geographic data to derive meaningful insights. Automated feature recognition utilizes AI to identify and classify objects in maps or imagery. Predictive analysis in GIS anticipates future trends or events based on historical spatial data. Routing and navigation tools optimize travel routes and offer real-time directions. Spatial clustering and pattern recognition assist in detecting spatial relationships and groupings in geographic data, facilitating decision-making and problem-solving.

During the afternoon session, the speaker delved into Convolutional Neural Networks (CNN), a deep learning model primarily used for image analysis. Three types of machine learning were discussed: supervised, unsupervised, and reinforcement learning. Supervised learning entails training a model on labeled data to predict outcomes, with regression predicting continuous outcomes and various algorithms like decision trees, random forests, and K-Nearest Neighbors (KNN). Challenges such as overfitting and underfitting were highlighted in supervised learning.

Unsupervised learning involves algorithms extracting patterns from unlabeled data, including K-means clustering and Principal Component Analysis (PCA). In GIS, backpropagation in neural networks optimizes spatial analysis and decision-making processes by refining models through iterative learning and adjustments based on error minimization.



Fig: Introducing AI and ML to the participants – Mr. Satyam



Fig: Introducing AI and ML to the participants – Mr. Satyam

Day 3:

Open-Source Software's

During the session with Mr. Neerav, he expounded on the concept of Open Source Software (OSS). This term encompasses software that is freely accessible to the public, allowing users the freedom to modify, distribute, and enhance the software. In contrast to closed-source proprietary software, open source promotes collaboration and transparency, providing users with freedoms such as the ability to study, modify, and distribute the software. The operational framework of open source follows a community-driven model, where users actively contribute to the development and improvement of the software.



Free and Open-Source Software (FOSS) is a categorization of software that endows users with the freedoms of using, studying, modifying, and distributing the source code. FOSS is further subdivided into various categories, including copyleft licenses (e.g., GPL), permissive licenses (e.g., MIT), and public domain licenses (e.g., CCO), each governing usage and distribution terms.

In the realm of GIS, FOSS tools like QGIS, GRASS GIS, and GeoServer, in conjunction with organizations such as OSGeo, advocate for the development and utilization of open-source geospatial software. Platforms like Mapbox offer mapping services, while protocols like Web Map Service (WMS), Web Feature Service (WFS), and Web Coverage Service (WCS) facilitate data sharing and interoperability within GIS. FOSS in GIS finds applications across diverse fields, including environmental monitoring, urban planning, disaster management, and public health, providing cost-effective and customizable solutions for spatial data analysis and visualization.

UNET Demonstration

Mr. Satyam elucidated that the U-Net architecture, one of the widely employed convolutional neural network for image segmentation/classification tasks. Within the domain of GIS, this architecture is harnessed for object detection and classification in satellite or aerial imagery. The code typically encompasses data preprocessing, model training, and evaluation, utilizing annotated datasets to identify and categorize objects in geographical imagery.

The application of U-Net in GIS facilitates detailed and precise identification of various objects, including buildings, roads, or vegetation. This capability proves invaluable for tasks such as land use mapping, disaster response, and urban planning. Leveraging the network's capacity to discern unique features and patterns, the implementation of the code enables accurate spatial classification within geographical data. This, in turn, simplifies the process of making well-informed decisions and analyzing geographic information systems.

GRASS GIS - Hands on

During the afternoon session under the guidance of Dr. Vinay S., participants successfully installed GRASS GIS and imported geographical data into the software. They acquired a fundamental understanding of navigating the GRASS interface, managing spatial datasets, and initiating GIS workflows. This hands-on experience provided them with the necessary foundation to leverage GRASS for geographic analysis and laid the groundwork for further exploration of the tool's capabilities in spatial data management and analysis. Processes such as land cover analysis, land use analysis were focused during the session. Overall, the session proved to be a valuable introduction to the installation of GRASS GIS and the initial steps of data importation. It empowered the participants to embark on their journey in utilizing this powerful tool for geographic analysis and geospatial modeling.

Day 4:

Mobile GIS for Field Data Collection

Under the guidance of Dr. Vinay S., the GIS field visit constituted a comprehensive effort to collect detailed spatial data on various elements of the ecosystem, including medicinal plants, butterflies, birds, and land use. To achieve this objective, four teams, each consisting of 10 members, utilized the Epicollect5 app and GitHub to ensure efficient and organized data collection, storage, and sharing. Each team was assigned a specific task, encompassing gathering information on medicinal plant documenting butterfly sightings, assessing bird diversity, and analyzing land use patterns. The teams collected GPS coordinates, captured photographs, and provided detailed descriptions of observed flora, fauna, and land use characteristics using the Epicollect5 app.

All team members received training in using the app for data collection, ensuring standardized data formats and GPS accuracy. Following data

collection, they uploaded the information to a GitHub repository for organized and collaborative data management. Despite challenges such as GPS accuracy, data synchronization, and varying field conditions, the teams effectively mitigated these issues.

The GIS field visit successfully gathered significant data, now serving as a valuable resource for ecological research, conservation planning, and future GIS analysis. The collected data will contribute to understanding the dynamics of the ecosystem, its components, and their interactions. This information can be instrumental in developing strategies for the conservation and management of the ecosystem.



Fig: Data collection using MobileGIS at Bird Park



Fig: Data collection using MobileGIS at Shobhavana

Expert Lecture - Dr. Prakash P S

During the afternoon session, Dr. Prakash, a distinguished speaker from Irish Centre for High-End Computing ICHEC, delivered an informative presentation on the multidisciplinary field of remote sensing and geospatial technologies. He explained the process of remote sensing and highlighted the crucial role of sensors in capturing remote sensing images. The presentation showcased remote sensing images obtained through ISRO and detailed a wide range of remote sensing applications, from environmental monitoring to natural resource exploration.

Dr. Prakash also discussed related technologies such as photogrammetry, drones, GPS, and GIS. He emphasized the interplay of geospatial technologies in relation with new age tools viz., AI and ML, depicting how they contribute to terrain modeling, high-resolution mapping, accurate positioning, and data integration and analysis.



Fig: Guest Lecture by Dr. Prakash

Day 5

GRASS GIS - Hands on

During the hands-on session hosted by Dr. Vinay S., participants learned how to utilize GRASS GIS (Geographic Resources Analysis Support System) for the importation, processing, and analysis of satellite data. The session encompassed various tasks, including importing vector boundaries, converting vectors to rasters, integrating folders into the GIS system, importing satellite imagery, developing signatures, and performing supervised classification.

The session commenced with the importation of vector boundaries into GRASS, followed by their conversion into a raster format suitable for subsequent analysis. Participants acquired skills in organizing and importing

diverse datasets from local directories into GRASS, as well as incorporating and visualizing satellite images within the GIS platform. The latter part of the session focused on developing signatures from the imported satellite data. Participants were instructed in the process of identifying and extracting significant features or classes from the imagery. Additionally, they were introduced to supervised classification techniques, demonstrating how to classify or categorize different land cover types within the satellite imagery.

Overall, this hands-on session provided participants with practical exposure to various functionalities of GRASS GIS. It equipped them with the skills required to manipulate and extract meaningful information from satellite data, enhancing their ability to conduct geospatial analyses and land cover classifications within the GRASS GIS platform.



Fig: Participants working with GRASS GIS

Valedictory Session

The IEEE-organized workshop marked a significant milestone in the field of Geographic Information Systems (GIS) at AIET. The event featured certificate distribution to participants, along with speeches from Dr. Dattathreya, the chief guest, and Dr. Vinay S, the resource person. Both speakers emphasized the importance of GIS in the modern technological landscape and its pivotal role in decision-making processes.

In his speech, Dr. Dattathreya spoke about the advancements and potential applications of GIS in various industries, highlighting its significance in

diverse domains, from urban planning to environmental monitoring. Dr. Vinay S, the distinguished resource person, demonstrated the practical aspects of GIS, showcasing its implementation in real-world scenarios. His presentation illustrated how GIS technologies aid in spatial analysis, cartography, and data visualization, unveiling the power of geographic information in solving complex problems.

The ceremony also recognized the efforts of participants who completed workshops in GIS by distributing certificates. It served as a platform for knowledge sharing and recognition of the dedication and commitment of the participants in advancing their GIS proficiency.

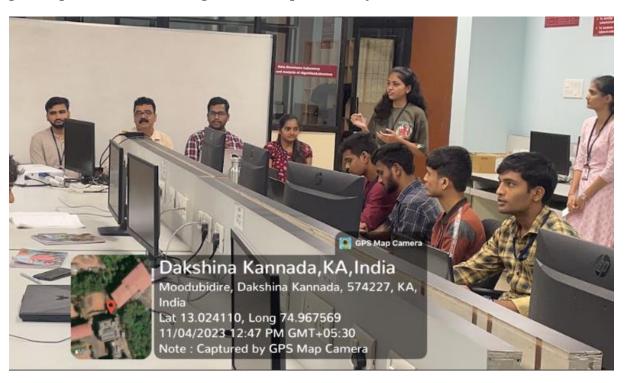


Fig: Valedictory Session

Workshop Outcomes

The workshop focused on introducing the students to concepts of Remote Sensing, Digital Image Processing, AI and ML with both theory and hands on session. The participants were able to Develop Indices for extracting natural features. The use of Google Colab opened a new dimension in the thought processes for the participants. The participants were able to work on the basic steps for evaluating Land use of Moodbidri using Landsat 9 data. The participants had a flavor of Remote Sensing using classical and advanced methods using FOSS.

Acknowledgement

We would like to thank the efforts made by the young IEEE brains for organizing and conducting the workshop. We would like to express out sincere gratitude to the resource persons Mr. Vedant, Mr. Satyam, Mr. Neerav, Dr. Prakash for introducing them to diverse topic beyond the syllabi. We are extremely thankful to the Management, Principal, Deans, Heads and faculties for their kind support.

Dr. Vinay S

IEEE Member Geoinformatics Research Lab Associate Professor, Dept of Civil AIET, Mijar Dr. Manjunath Kotari

IEEE Member Professor, Dept of CSE AIET, Mijar

Dr. Dattathreya

Dean Planning IQAC Main Coordinator Professor, Dept of ECE AIET, Mijar Dr. Peter Fernandes

Principal & IQAC Chairman AIET, Mijar

ANNEXURE



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Ref.No.: AIET/IQAC/2022-23/

13/10/2023

Internal Quality Assurance Cell (IQAC) Geoinformatics Research Lab IEEE Student Branch Chapter, AIET (STB60215368) Institution's Innovation Council

To,

Dr. Peter Fernandes IQAC Chairman AIET, MIJAR

Subject: Request permission to conduct Hands on Workshop on Satellite Image Processing

Respected Sir,

We are pleased to inform you that AIET-IQAC, Geoinformatics Research Lab, IEEE student branch chapter (STB60215368) & IIC, AIET are planning to organize a handson workshop between 30th October to 4th November 2023. The meeting will be conducted focusing on innovative tools and methods for analysis of Satellite images using Digital Image Processing techniques (AI/ML) with focus on Western Ghats and Coastal Ecosystems. Target audience would be interested students and teaching fraternity across all Engineering branches from AIET (2nd, 3rd and 4th year) and Degree College with an upper limit of 50 participants. The workshop will be conducted at Machine Learning Lab.

We would request you to kindly permit us to proceed with the activities planned. Your valuable suggestions and support in this endeavor would be greatly appreciated.

Thank you for your consideration.

Dr. Dattathreya IQAC Main Coordinator AIET, MIJAR, Moodbidri Dr. Vinay S
Geoinformatics Research Lab,
AIET, MIJAR, Moodbidri

IEEE Faculty Counselor AIET, MIJAR, Moodbidri

Alva's Institute of Engg. & Technology,
Mijur. MODDBIDRI - 574 225, D.M



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Ref.No.: AIET/IQAC/2022-23/

13/10/2023

CIRCULAR

It is hereby informed that hands on training workshop on Innovative tools and methods for Satellite image processing for monitoring Western Ghats and Coastal Ecosystems is organized by IQAC, Geoinformatics Research Lab & IEEE student branch chapter between 30 October and 4th November 2023, venue being Machine Learning Lab between 9:30 AM and 5:00 PM. In this regards all HOD's (Agri, AIML, Civil, CSE, CSD, ECE, ISE) are requested to kindly be present for the inaugural and depute select faculty and interested students from the department.

Please note: Faculty are required to be present full time once registered

Dr. Peter Fernandes Principal & IQAC Chairman AIET Mijar, Moodbidri

To

Principal Alva's Degree College, All Deans and Heads, AIET

M-N.R. Shetty

ISE-N.R.S.

CSE-T. HP

CSE-T. HP

CSP SAND

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Date	9:30 to 11:	00 1	1:00 to 12:30	12:30 to 1:30	1:30 to 3:00	3:30 to 5:00
30 October 2023	Inauguration	Introduction to Remote Sensing (Dr. Vinay)			Digital Image Processing (Mr. Vedant)	Satellite and Data Sources (Dr. Vinay)
31 October 2023	AI a	AI and ML for Beginners (Mr. Satyam)			Hands on session – Python for image processing (Mr. Vedant/ Mr. Satyam)	
2 November 2023	Open-Source Tools (Mr. Neerav)	GRASS GIS Hands on (Dr. Vinay)		LUNCH	GRASS GIS H (Dr. Vina	
3 November 2023	GRASS GIS Hands on (Dr. Vinay)				Mini Proj	ect
4 November 2023	Mini Project	+ Presentation	Valedictory and Certificate Distribution			



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Registration List of Week Workshop on Innovative Tools & Techniques in Satellite Image Processing (30th Oct-4th Nov,2023)

	Name	Member Id	Signature
1.	Akshatha Hebbar	99490549	Jul 1
2.	Abhishek B K	99496050	R>
3.	Archana Hublikar	99473663	(A)
4.	Gayatri C Bhagavantnavar	99408977	Acar.
5.	Naveesh Kumar	99496077	Muca
6.	Nikisha Krishna Nagesh Poojari	99473931	-40-
7.	Priyanka D	99494027	Privitor
8.	Tejaswini Venkatesh Gudigar	99483672	Quality
9.	Kamma Puspuri Madhavi	99494382	
10.	Reshna Nandipi	99474505	Kenalion Reshul
11.	Shetty Balija Deepthi	99494335	Box.
12.	Sansitha Rajesh	99495546	Baustin
13.	Toshif Husen Patil	99495745	Es-
14.	Shrishanth S Shetty		-
15.	Saneesha Prashanth Kadam	-	Set .
16.	Yashwanth R	-	JH.
17.	Gururagavendra Paluri	-	مدی
18.	D Chandan Lagubigi	-	Ed
19.	Bhavish	-	1244
20.	Jhanavi V	-	Jacob
21.	Darshan Rai	-	- IR-
22.	Harshith D M	-	(A)
23.	Shetty Yash Chandrashekar	-	173he Hy
24.	Kagwade Abhishek Shashank	-	Hande
25.	Abhay Gowda M K	-	
26.	Bhagyashree Shyam Naik	-	Broile
27.	Venkatesh Hanamanta Hulasad	-	Ser.
28.	Ganesh	-	Cla
29.	Sudarshan T Bhat	-	Shot
30.	Lakshan	-	Sies.
31.	Rakshith	-	Par
32.	Mohammed Rihan		4×7
33.	Arvinkanth Suuvarna	-	Miles
34.	Moammed Adil		Adre
35.	Anirudh Kamath K	-	Honge
36.	Muhammed Yamin Sharfuddin	•	Service
37.	Syed Saleha	-	Lydfalda
38.	Krupashree R.	•	de.
	Chaitra S Koddaddi		Jan -
39.	Unantra 5 Noggadon		



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41.	Laya R	-	Steen.
42.	Abhiram H. A.	•	3
43.	Abhishek Pandit	•	200
44.	Jyothi B.	•	75.49
45.	Abhishek P.	-	(3)
46.	Varshini K. L.	-	V Out
47.	Mohammed Sharfuddin	•	W. J.
48.	Satlyam Pawale	•	()
49.	Manjunath M. Sajjan	-	145
50.	A. Bhoomika Reddy	-	-4E.
51.	Chaitra	•	Cud-
52.	Dr Bramha Prakash H P	99627377	
53.	Neerav V Patel	99494129	Neccas.

IEEE Student Branch Chair

IEEE Faculty Councellor









Of Appreciation

THIS IS TO CERTIFY THAT

In recognition of his/her amazing performance and great efforts during the Workshop on Innovative tools and Methods for Satellite Image







Dr Peter Fernandis Principal AIET











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Faculty Member



Dr Manjunath Kotari Faculty councilor IEEE











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Processing



Dr Manjunath Kotari Faculty councilor IEEE

Dr Peter Fernandis Principal **AIET**









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Akshatha

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member

Dr Manjunath Kotari Faculty councilor

IEEE

Dr Peter Fernandis Principal AIET









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Abhishek P

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member



Dr Manjunath Kotari Faculty councilor IEEE



AIET









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Anirudh Kamath K

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member

Dr Manjunath Kotari Faculty councilor IEEE

Dr Peter Fernandis Principal AIET









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Abhishek Pandit



Faculty Member



Dr Peter Fernandis Principal AIET









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Bhagyashree Shyam Naik

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Dr Vinay S D



IEEE

Dr Peter Fernandis

Principal

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Archana Hublikar

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



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Faculty Member



Dr Manjunath Kotari Dr Faculty councilor IEEE



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Bhavish

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Arvinkanth Suvarna



Dr Manjunath Kotari Faculty councilor IEEE











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Jahnavi V

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Dr Vinay S Faculty Member IEEE



IEEE

Dr Peter Fernandis

Principal

AIET











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D Chandan Lagubigi

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Dr Vinay S Faculty Member



r Manjunath Kotari Dr Peter Fernar
Faculty councilor Principal
IEEE AIET









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Kagwade Abhishek

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



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Dr Manjunath Kotari Faculty councilor IEEE

Dr Peter Fernandis
Principal
AIET









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GURURAGAVENDRA PALURI



Dr Vinay S Faculty Member IEEE



Dr Peter Fernandis

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Mohammed Rihan

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



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Kamma purapuri madhavi

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member



Faculty councilor Principal AIET IEEE









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Muhammed Yamin Sharfuddin

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



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Mohammed Adil



Faculty Member



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Saneesha prashant kadam

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



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Priyanka D

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



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Faculty Member



Dr Peter Fernandis Faculty councilor Principal IEEE AIET









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Sansitha Rajesh

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member

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Dr Peter Fernandis Principal AIET









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Reshna Nandipi



Faculty Member



Dr Peter Fernandis Principal AIET









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Shrishanth S Shetty

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



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Satyam Pawale

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member



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Principal AIET









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Sudarshan T Bhat

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member

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Dr Peter Fernandis Principal AIET









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Shetty Balija Deepthi



Faculty Member



Dr Peter Fernandis Principal AIET









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VEDANTH V

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member

Dr Manjunath Kotari Faculty councilor

IEEE

Dr Peter Fernandis Principal AIET









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Syed Saleha

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member



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Yash Shetty

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member

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Dr Peter Fernandis Principal AIET









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TEJASWINI VENKATESH GUDIGAR

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing



Faculty Member

Dr Manjunath Kotari Faculty councilor IEEE

Dr Peter Fernandis Principal AIET









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Yashwanth R

In recognition for his/her active participation and great efforts during the workshop on innovative tools and methods for satellite image processing

Dr Vinay S Faculty Member IEEE

Dr Manjunath Kotari Faculty councilor IEEE Dr Peter Fernandis

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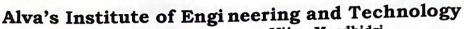


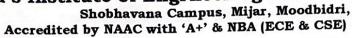


Alva's Institute of Engineering and Technology,

Shobhavana Campus, Mijar, Moodbidiri Dakshina Kannada, Karntaka – 574 225







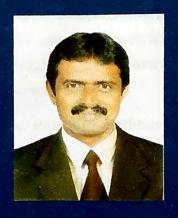
ALVA'S



Department of Civil Engineering

A Technical Talk on "An overview on Green Building"

Resource Person



Er. Rajendra Kalbhavi Executive Director of DK Nirmithi Kendra, Surathkal.

Wednesday, December 20, 2023 at 3.30 PM Civil Engineering Seminar Hall, AIET

Department of CV Institution Innovation Council Dr. Peter Fernandes **HOD** and Faculty Members Coordinators

Principal, AIET



(Unit of Alva's Education Foundation (R), Moodbidri)

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DEPARTMENT OF CIVIL ENGINEERING

TECHNICAL TALK REPORT

Er. Rajendra Kalbhavi is dedicated to advancing the construction of low-cost buildings using eco-friendly materials, thereby championing the cause of green buildings. These structures not only excel in energy efficiency but also contribute to resource conservation, fostering healthier indoor environments and providing aesthetically pleasing and durable spaces through the use of environmentally suitable materials. The principles of green building encompass integrated design, solar orientation, optimal footprint sizing, mindful glazing, material durability, economic life-cycle analysis, material reuse and salvage, natural material utilization, reliance on locally available resources, and economic sustainability.

In his comprehensive approach, Rajendra Kalbhavi emphasized key strategies for making buildings green:

Sustainable Site Planning with Bioclimatic Architectural Planning:

Integrate bioclimatic architectural planning into site development for sustainable outcomes.

Design Energy-Efficient Lighting and HVAC Systems:

Incorporate designs that optimize energy usage in lighting and HVAC (Heating, Ventilation, and Air Conditioning) systems.

Use Low Energy and Renewable Materials:

Prioritize the selection of materials with low energy requirements and those derived from renewable sources.

Choose Construction Materials and Finishes with Low Emissions: Opt for construction materials and interior finishes that emit zero or low levels of pollutants to enhance indoor air quality.



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DEPARTMENT OF CIVIL ENGINEERING

Implement Dimensional Planning and Material Efficiency Strategies:

Utilize dimensional planning and other strategies to enhance material efficiency during construction.

Design for Graywater Systems and Dual Plumbing:

Incorporate designs for graywater systems, enabling the recovery of rainwater for site irrigation, and implement dual plumbing systems for the use of recycled water in toilet flushing.

By addressing these facets, Rajendra Kalbhavi aims to mitigate the negative environmental impacts associated with modern construction, thereby promoting a more sustainable and eco-friendly approach to building design and construction.



Resource Person addressing the students on concepts of green building

IIC President

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar. MOODBIDRI - 574 225, D.K

Dept. of Civil Engineering

A;va's Institute of Engg. & Tachnology

Mijar, Moodbidri - 574 220



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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka Ph: 08258-262725; Mob:722262724,7026262725,mail:principalaiet08@gmail.com

Department of Civil Engineering

Date - 09/12/2023

To

IQAC Chairman AIET, Mijar

Respected Sir

Sub: To grant Permission for Technical Talk reg:We are happy to inform you that department of civil engineering conducting
a technical talk on 12/12/2023. The details are mentioned below, kindly
request you do the needful.

Resource person details

Name: Er. Rajendra Kalbavi

Designation: Project Director

Company details: Dakshina Kannada Nirmithi Kendra

Date/month/year: 12/12/2023

Dopt. of Civil Engineering Alun's Institute of Engg. & Technology Mijar, Moodblidti - 574 225

PRINCIPAL

Alva's Institute of Engg. & Technology,

Miljar, MOODBIDRI - 574 225, D.K



Shobhavana Campus, Mijar, Moodabidri, Mangalore Taluk, D.K – 574225 Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF CIVIL ENGINEERING

From

H Ajith Hebbar
Professor & Head
Dept. of Civil Engineering
AIET, Mijar.

The

The Principal AIET, Mijar.

Sir,

<u>Sub</u>: - Request for the honorarium for resource persons of the Technical Talk - reg.

I request you to direct the concerned authorities to provide the honorarium for technical talk resource person Er. Rajendra Kalbavi, Project Director Dakshina Kannada Nirmithi Kendra, on Monday, 12 December 2023. I will be thankful to you for the same.

Resource Persons	Honorarium + T.A	
Er. Rajendra Kalbavi, Project Director		
Dakshina Kannada Nirmithi Kendra,	Rs. 2500/- + T.A	
NITK, Surathkal		

Date: 9/12/2023

Yours faithfully

(Dr. H Ajith Hebbar)

H.O.D.

Dept. of Civil Engineering
Alva's Institute of Engg. & Tect olegy
Mijar, Moodbidri - 574 225

ROTT.



Shobhavana Campus, Mijar, Moodabidri, Mangalore Taluk, D.K – 574225 Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF CIVIL ENGINEERING

Ref: AIET /CV/TT 2023-24/05

Date: 09/12/2023

To,

Er. Rajendra Kalbavi Project Director Dakshina Kannada Nirmithi Kendra NITK, Surathkal

Dear Sir,

Sub:-Request for Resourceful Talk – Reg.

I am very much pleased to have the honour of inviting you to our institution as resource person to deliver a technical talk on your expertise, on Tuesday, 12th December 2023 at 3.00 PM, I look forward to meet you at our Campus.

Yours Truly

(Dr H Ajith Hebbar)

H.O.D.

Dept. of Civil Engineering
Alva's Institute of Engg. & Technology
Mijar, Moodbidri - 574 225