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#### Thiruvananthapuram 695 547 Department of Earth & Space Sciences Academic Audit Report 2023-2024

### Academic audit committee

// 	Internal members	
SI.No.	Faculty Name	Role
1	Dr. Govindan Kutty M, Associate Professor, Earth & Space Sciences	Convenor
2	Dr. Rama Rao Nidamanuri, Professor, Earth & Space Sciences	Member
3	Dr. Deepak Mishra, Professor, Avionics	Member
4	Dr. Anand Narayanan, Professor, Earth & Space Sciences	Chairman

SI.	instantion and Percent	. to here	nal mem			Name of the	-0	
No.	Name D	esignation	Email	Mobil	e	Institute	Role	
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		I Depa	artment p	orofile		가는 것이 있는 것이다. 가지 않는 것이 이 같이 있는 것이다. 것이 많은 것이 있는 것이 같이 있는 것이다. 같이 있는 것이 같이 있는 것이 같이 있는 것이다.	sene nei s sene contra sene contra se	
1	No. of Permanent Faculty Me	mbers			13	an a		
2	No. of Adjunct Faculty Membe	ers	14		0			
3	No. of Contract Faculty Memb	ers		1849 18 1849 19 1849 19	0	n an that the second	neraja N 126-1	
4	No. of Guest Faculty Member	s		njoj i	0	Canto Sublema (Canto) Canto Sustango Inc. N Martin	navi M., Norich	
5	No. of Emeritus Professors / \ Faculty Members	/isiting		iesy i	0	n (1812) stennigtere an eine	(Standau	

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6	No. of Technical Staff / Tutors (Permanent)	0
7	No. of Technical Staff / Tutors (Contract)	4
8	No. of JRFs/ SRF/ JPF (excluding PhD students)	6
9	No. of Project Fellows	0
10	No. of Research Associates	0
11	No. of Post Doctoral Fellows	0

# II Details of academic programmes and student strength in numbers

A .Undergraduate/ Dual Degree / Postgraduate programmes

SI. No.	Programme	Year	Sanctioned strength in the academic year	Student strength in the academic year (At the start of even semester)	Female student strength in the academic year	No. of passed out Students	Pass Percentage
1	Dual Degree: Eng. Physics (B.Tech.)+ Astronomy & Astrophysics(M.Tech.)	IV Year	7	7	0	7	100.00
2	Dual Degree: Eng. Physics (B.Tech.)+ Astronomy & Astrophysics(M.Tech.)	V Year	5	5	0	5	100.00
3	Dual Degree: Eng. Physics (B.Tech.)+ Earth System Science(M.Tech.)	IV Year	4	4	0	4	100.00
4	Dual Degree: Eng. Physics (B.Tech.)+ Earth System Science(M.Tech.)	V Year	4	4	0	4	100.00
5	Master of Science: Astronomy and Astrophysics (Standalone)	l Year	11	4	0	4	100.00
6	Master of Science: Astronomy and Astrophysics (Standalone)	II Year	11	5	2	4	80.00
7	M.Tech.: Earth System Science (Standalone)	I Year	11 '	4	3	4	100.00
8	M.Tech.: Earth System Science (Standalone)	II Year	11	4	1	3	75.00

9	M.Tech.: Geoinformatics (Standalone)	I Year	11	9	3	9	100.00
10	M.Tech.: Geoinformatics (Standalone)	II Year	11	9	2	9	100.00
Tota			86	55	11	53	1C

	No. of	No. of		. vertiles after
Programme	students	students	Comments	Suggestions
	applied	admitted		
Dual Degree: Eng. Physics (B.Tech.)+	7	7		
Astronomy & Astrophysics (M.Tech.)		/		an the
Dual Degree: Eng. Physics (B.Tech.)+	4	4		
Earth System Science (M.Tech.)	4	4		
Master of Science: Astronomy and	150	F		
Astrophysics (Standalône)	150	5		×
M.Tech.: Earth System Science	220	4		1984 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -
Standalone)	229	4		19.21 1 1
M.Tech.: Geoinformatics (Standalone)	215	9		

C. Doctoral Degree				
PhD	Sanctioned seats	No. of students admitted	Current student strength	Degree awarded
PART TIME	4	4	0	2
FULL TIME	5	5	0	2
Total	9	9	0	4

П	I Details of	core c	ourses and	electives in	each p	rogramme
SI. No.	Programme Name	Course code	Course name	Core/ Elective	Credits assigned	As per curriculum revision/ newly addec elective course/ syllabus revised
1	Dual Degree: Earth System Science	ESE553	Project Phase II	Core	18	
2	Dual Degree: Earth System Science	ESE554	Comprehensive Viva-Voce II	Core	2	
3	Dual Degree: Earth System Science	ESE552	Project Phase I	Core	14	

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4	Dual Degree: Earth System	ESE411	Dynamics of Atmosphere	Core	3	
5	Science Dual Degree: Earth System	ESE/12	Physical and Dynamical	Core	3	
	Science	L0L412	Oceanography Earth Resources	Core	5	
6	Dual Degree: Earth System Science	ESE413	Earth Resources and Tectonic Systems	Core	3	
7	Dual Degree: Earth System Science	ESE414	Radiation Processes in Atmosphere	Core	3	
8	Dual Degree: Earth System Science	ESE415	Atmospheric Thermodynamics and Cloud Physics	Core	3	•
9	Dual Degree: Earth System Science	ESE431	Obeservational Techniques Lab	Core	1	
10	Dual Degree: Earth System Science	ESE432	Geology Lab	Core	1	
11	Dual Degree: Earth System Science	ESE461	Planetary Atmospheres	Core	3	
12	Dual Degree: Earth System Science	ESE462	Numerical Weather Prediction	Core	3	
13	Dual Degree: Earth System Science	ESE463	Planetary Geosciences	Core	3	
14	Dual Degree: Earth System Science	ESE467	Boundary Layer Meteorology	Core	3	
15	Dual Degree: Earth System Science	ESE472	Atmospheric and Oceanic Instrumentation and Measurement Techniques	Core	3	
16	Dual Degree: Earth System Science	ESE441	Elective Lab - I	Elective	1	
17	Dual Degree: Earth System Science	ESE442	Elective Lab II	Elective	1	
18	Dual Degree: Earth System Science	ESE451	Seminar	Core	2	

		Dual Degree:		1	the second second		1	
	19	Astronomy & Astrophysics	ESA553	Thesis Phase II	Core	17		
-		Dual Degree:						
	20	Astronomy &	ESA551	Seminar II	Core	2		
		Astrophysics			Section Section			
		Dual Degree:						
	21	Astronomy &	ESA552	Thesis Phase I	Core	16	ante actual (* 11)	
		Astrophysics	2	1			in sta	
		Dual Degree:		Astronomical			A Start Start	
	22	Astronomy &	ESA411	Techniques	Core	3		
		Astrophysics		10.00				
	00	Dual Degree:		Radiation				
	23	Astronomy &	ESA412	Processes in	Core	3	n fall i le graan	
-		Astrophysics		Astrophysics	in the second	A. C. K	is provident in the	
)	24	Dual Degree: Astronomy &	ESA413	Planetary	Care	0	All and the set of the set of	
	24	Astrophysics	207413	Sciences	Core	3		
-		Dual Degree:		Introduction to				
	25	Astronomy &	ESA414	Programming and	Core	3		
	20	Astrophysics		Data Handling	Core	5		
		Dual Degree:			20012			
	26	Astronomy &	ESA431	Data Analysis	Core	1		
	3	Astrophysics	2				S	
		Dual Degree:		Structure and	5. (79) M		etwart de tra	
	27	Astronomy &	ESA421	Evolution of Stars	Core	3	The second	
		Astrophysics			5			
		Dual Degree:		Galaxies	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
	28	Astronomy &	IESA422	1ESA422	SA422 (Structure,	Core	3	
		Astrophysics		Dynamics and			e selector de Ale	
<u> </u>		Dual Degrees		Evolution)				
Î.	29	Dual Degree: Astronomy &			0	17 St. No. 17 REAL		
	20	Astrophysics	L3A423	Cosmology	Core	3	18 on the Britsterfor	
		Dual Degree:						
	30	Astronomy &	ESA463	High Energy	Core	3		
		Astrophysics		Astrophysics	Core	5		
		Dual Degree:			dia and			
	31	Astronomy &	ESA441	Observational	Core	2	the constraint in	
	51	Astrophysics	As	Astronomy Lab		2	ter an in a station of the	
		Dual Degree:						
	32	Astronomy &	ESA451	Seminar I	Core	2	Maril I Good	
		Astrophysics		6 1		an as filling		
		Dual Degree:	sus di	Comprehensive			er " grev	
	33	Astronomy &	F5A45/	Viva -Voce II	. Core	2	ng Palin ang Kang Tan	
		Astrophysics				spinistra a	We will be the star	

34	Dual Degree: Engineering Physics	ES322	Introduction to Earth, Atmosphere and Ocean Sciences	Core	3	
35	Dual Degree: Engineering Physics	ES323	Astrophysical Concepts	Core	3	
36	Master of Science: Astronomy and Astrophysics		Seminar II	Core	2	
37	Master of Science: Astronomy and Astrophysics		Thesis Phase I	Core	16	
38	Master of Science: Astronomy and Astrophysics		Thesis Phase II	Core	17	
39	Master of Science: Astronomy and Astrophysics		Introduction to Astronomy and Astrophysics	Core	3	
40	Master of Science: Astronomy and Astrophysics	ESA612	Astronomical Techniques	Core	3	
41	Master of Science: Astronomy and Astrophysics	the strength of the strength of the	Radiation Processes in Astrophysics	Core	3	
42	Master of Science: Astronomy and Astrophysics		Introduction to Programming and Data Handling	Core	3	
43	Master of Science: Astronomy and Astrophysics	ESA615	Planetary Sciences	Core	3	
44	Master of Science: Astronomy and Astrophysics		Data Analysis Lab	Core	1	
45	Master of Science: Astronomy and Astrophysics	ESA621	Structure and Evolution of Stars	Core	3	
46	Master of Science: Astronomy and Astrophysics	ESA622	Galaxies (Structure, Dynamics and Evolution)	Core	3	
47	Master of Science: Astronomy and Astrophysics	Construction and an advantage from	Cosmology	Core	3	
48	Master of Science: Astronomy and Astrophysics	ESA663	High Energy Astrophysics	Core	3	

49	Master of Science: Astronomy and Astrophysics	ESA641	Observational Astronomy Lab	Core	2	
50	Master of Science: Astronomy and Astrophysics		Seminar I	Core	2	
51	Master of Science: Astronomy and Astrophysics	ESA652	Comprehensive Viva	Core	2	
52	M.Tech.: Thermal and Propulsion	ESAbb3	High Energy Astrophysics	Elective	3	
53	M.Tech.: Earth System Science	ESE654	Project	Core	14	
54	M.Tech.: Earth System Science	ESE655	Project (Midterm + Phase II + Thesis)	Core	18	
55	M.Tech.: Earth System Science	ESE611	Dynamics of Atmosphere	Core	3	
56	M.Tech.: Earth System Science	ESE612	Physical and Dynamical Oceanography	Core	3	
57	M.Tech.: Earth System Science	ESE613	Earth Resources and Tectonic Systems	Core	3	
58	M.Tech.: Earth System Science	ESE614	Radiation Processes in Atmosphere	Core	3	
59	M.Tech.: Earth System Science	ESE615	Atmospheric Thermodynamics and Cloud Physics	Core	3	n San Barta Na San Barta Na San San Barta
60	M.Tech.: Earth System Science	ESE631	Observational Techniques Lab	Core	1	
61	M.Tech.: Earth System Science	ESE632	Geology Lab	Core	1	
62	M.Tech.: Earth System Science	ESE661	Planetary Atmospheres	Core	3	
63	M.Tech.: Earth System Science	ESE662	Numerical Weather Prediction	Core	3	rtaut" I.t. " a
64	System Science	ESE663	Geosciences	Core	3	e a Tel
65	M.Tech.: Earth System Science	ESE667	Boundary Layer Meteorology	Core	3	
66	M.Tech.: Earth System Science	ESE672	Atmospheric and Oceanic Instrumentation and Measurement Techniques	Core	3	

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67	M.Tech.: Earth System Science	ESE641	Elective Lab I	Elective	1	
68	M.Tech.: Earth System Science	ESE642	Elective Lab II	Elective	1	
69	M.Tech.: Earth System Science	ESE651	Seminar	Core	2	s es a dis l al guarda
70	M.Tech.: Earth System Science	ESE652	Comprehensive Viva-Voce	Core	2	
71	M.Tech.: Geoinformatics	ESG651	Dissertation - Phase I	Core	12	요구가 전자하고 2011년 - 2013년 - 2013년 - 2013년 - 2013년
72	M.Tech.: Geoinformatics	ESG655	Geospatial Outreach	Core	2	
73	M.Tech.: Geoinformatics		Mini Project and Scientific Report Writing	Core	3	
74	M.Tech.: Geoinformatics	ESG657	Comprehensive Viva	Core	2	
75	M.Tech.: Geoinformatics	ESG652	Dissertation - Phase II	Core	15	
76	M.Tech.: Geoinformatics	ESG611	Introduction to Remote Sensing and Image Analysis	Core	3	
77	M.Tech.: Geoinformatics	ESG612	Geographic Information System	Core	3	
78	M.Tech.: Geoinformatics	ESG616	Scientific Computing for Geospatial Data Analysis	Core	2	
79	M.Tech.: Geoinformatics	ESG664	Photogrammetry	Core	3	
80	M.Tech.: Geoinformatics	ESG631	Remote Sensing and Image Analysis Lab	Core	1	
81	M.Tech.: Geoinformatics	ESG632	Geographic Information System Lab	Core	1	
82	M.Tech.: Geoinformatics	ESG633	Photogrammetry Lab	Core	1	
83	M.Tech.: Geoinformatics	ESG634	Scientific Computing for Geospatial Data Analysis Lab	Core	1	
84	M.Tech.: Geoinformatics	ESG623	Microwave Remote Sensing	Elective	3	

85	M.Tech.: Geoinformatics	ESG624	Pattern Recognition and Machine Learning	Core	3	
86	M.Tech.: Geoinformatics	ESG625	Analysis and Modelling of Geospatial Data	Core	3	
87	M.Tech.: Geoinformatics	ESE663	Planetary Geosciences	Elective	3	
88	M.Tech.: Geoinformatics	ESG665	Hyperspectral Image Processing and Analysis	Elective	3	
89	M.Tech.: Geoinformatics	ESG666	Satellite Based Positioning and LIDAR Remote Sensing	Elective	3	
90	M.Tech.: Geoinformatics	ESG667	Computer vision and Advanced Image Processing	Elective	3	
91	M.Tech.: Geoinformatics	ESG669	Remote Sensing and GIS for Atmospheric Science and Ocean Studies	Elective	3	
92	M.Tech.: Geoinformatics	ESG643	Pattern Recognition and Machine Learning Lab	Core	1	
93	M.Tech.: Geoinformatics	ESG644	Analysis and Modelling of Geospatial Data Lab	Core	1	
94	M.Tech.: Geoinformatics	ESG645	Hyperspectral Image Processing and Analysis Lab	Core	1	
95	Ph.D.: Course Work - January	ESG624	Pattern Recognition and Machine Learning	Credited	3	
96	Ph.D.: Course Work - January	ESE661	PLANETORY ATMOSPHERE	Credited	3	
97	Ph.D.: Course Work - January	ESA663	HIGH ENERGY ASTROPHYSICS	Credited	3	
98	Ph.D.: Course Work - January	ESA621	Structure and Evolution of Stars	Credited	3	
99	Ph.D.: Course Work - January	ES323	Astronomical Concepts	Institute Elective	3	90 B -

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100	Ph.D.: Course Work - July	ESE613	Earth Resourses and Tectonic Systems	Credited	3	
101	Ph.D.: Course Work - July	ESE614	Radiation Processes in Atmosphere	Credited	3	
102	Ph.D.: Course Work - July		Atmospheric Thermodynamics and Cloud Physics	Credited	3	
103	Ph.D.: Course Work - July	ESG616	Scientific Computing for Geosptical Data Analysis	Credited	1	
104	Ph.D.: Course Work - July	ESA611	Introduction to Astronomy ad Astrophysics	Credited	3	
105	Ph.D.: Course Work - July	ESA613	Radiation Processes in Astrophysics	Credited	3	
106	Ph.D.: Course Work - July	ESA612	Astronomical Techniques	Credited	3	

Criteria	Reponse	Revision made during this academic year	Comments on curriculum, if any	Suggestions for improvement
Qualitative comment on the content of the curriculum	EXCELLENT	yes	The quantitative overview demonstrates the comprehensive and research-oriented nature of the curriculum, emphasizing a balanced approach between theoretical knowledge, practical skills, and computational techniques	No suggestions

# V Review on Teaching, Learning and Evaluation

SI. No	. Criteria	Response based on criteria	Comments	Suggestions
1	Any innovative teaching methods/aids adopted?	No	No comments	No suggestions
2	ls any e-learning modules developed?	Yes Virtual mineral identification lab, simulated geological field trips, and online weather monitoring stations	No comments	No suggestions
3	Student evaluation pr	ocedure		
	Criteria	Response	Comments	Suggestions
Cours	e evaluation	Internal	No comments	No suggestions
Projec	t evaluation	Internal External	No comments	No suggestions
4	Evaluation componer	nts	na an an an Anna an Anna. Tairte an Anna Anna Anna	1989 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	Criteria	Response	Comments	Suggestions
	Theory	Continuous assesment and end semester exam	No comments	No suggestions
	Lab	Continuous assesment and end semester exam	No comments	No suggestions
Projec	t/ Internship/ Seminar	Mid term evaluaion and final evaluation		
5	Continuous Assessm	nent Components		
)	Theory	Quiz I Quiz II -	No comments	No suggestions
	Lab	Class exercise evaluation End Semester Examination	No comments	No suggestions
6	Is there any remedial coaching to support weak performers?	Yes	Individual Tutoring: Personalized one-on-one sessions with instructors or teaching assistants to address specific areas of difficulty. Peer Tutoring Programs: Pairing students with peers who excel in the subject to foster collaborative learning and peer support.	NO SUGGESTIONS

7	Is academic feedback from students taken regularly?	Yes	No comments	No suggestions
8	What are the steps taken based on student's feedback?	Develop detailed plans for addressing concerns or implementing suggestions, including timelines and resource allocation. Involve teachers, administrators, and students to ensure all perspectives are considered in the solution.		Provide professional development opportunities for faculty based on feedback may be implemented
9	Is Class committee meetings conducted?	Yes Follow up with the students to ensure they are satisfied with the resolution and that the issue has been fully addressed. Seek feedback on whether the actions implemented have effectively resolved the problem.	No comments	No suggestions

SI. No.	Criteria	Response	Comments	Suggestions
	Percentage of faculty with PhD	100	No Comments	No suggestions
2	No. of journal articles published	47	No Comments	No suggestions
3	No. of books published	0	No Comments	No suggestions
4	No. of book chapters published	2	No Comments	No suggestions
5	No. of invited talks/ conferences/ workshops attended	43	No Comments	No suggestions
6	No. of research projects funded by IIST	0	No Comments	No suggestions
7	No. of research projects funded through ASRG/IIST-ISRO/DoS	5	No Comments	No suggestions
8	No. of externally funded research projects like CSIR, DST, DRDO etc.	5	No Comments	No suggestions
9	No. of patents published/ awarded	1	No Comments	No suggestions
10	No. of patents filed	0	No Comments	No suggestions

11	No. of faculty/student awards received	7	No Comments	No suggestions
	No. of conferences/Workshops/ seminars/Colloquium Organized	4	No Comments	No suggestions
13	No. of conference paper published	26	No Comments	No suggestions
14	collaborations/invited talks/ conferences abroad	0	No Comments	No suggestions
	No. of Industry collaborative projects	0	No Comments	No suggestions
	No. of ISRO mission related projects/ activities	1	No Comments	No suggestions
17	No. of consultancy services entertained	0	No Comments	No suggestions

#### VIII Details of student co-curricular activities

Criteria	Response	Comments	Suggestions
Whether students are involved in extra curricular & co- curricular activities?	geological sites, rock and mineral identification workshops, guest lectures from geologists, and participation in geological surveys	No Comments	No Suggestions
Whether students are doing internship abroad?	Yes Externally sponsored	ANU,Australia Niigata University, Japan	No Suggestions
Whether students are doing internship at national academic institutes / universities?		NARL, NRSC, Aries, SPL	No Suggestions
Whether students are doing internship at ISRO/ Industries/ R&D institutes?	No	No comments	Industry involvement needs to be encouraged
Whether the department conducts outreach programs?	No	No comments	More outreach program needs
Whether department has alumni activities?	No	No comments	Alumni meeting needs to be conducted

	Criteria UC	B PG		PhD	Comments	Suggestions
٧o.	of students	16		4	No comments	No suggestions
olac	or o	10		4	No comments	No suggestions
	of students				in the second second	The second s
	ed for higher 0	6		0	No comments	No suggestions
stud						
	of students red GATE/				· · · · · · · · · · · · · · · · · · ·	
	T/ NET/ CSIR/	0		0	No comments	No suggestions
	C/ Others etc.					
SI.	Criteria	X Infrastructure Response	e in		omments	Suggestions
No. 1	No. of classrooms	3		No comment	S	No suggestions
	No. of seminar/					No suggestions
2	conference rooms	0		No comments		
3	No. of instruction labs	4		No comment	S	No suggestions
4	No. of research labs	4		No comment	S	No suggestions
5	No. of full-fledged e- learning classrooms	0		No comments		No suggestions
6	No. of computing labs	0	No comments		S	No suggestions
7	Is there any lab with potential for centre of excellence?	Yes, Climate Observato Ponmudi	ry in	No comments		No suggestions
8	Is there any labs sponsored by external agency?	No		No comment	S	No suggestions
9	Inter-disciplinary research facility	No		No comments		No suggestions
10	Is there any common amenities like restroom, recreation club, etc.?	Yes, Restroom:2 Recreation club:1		No comments		No suggestions
11	Is there any facilities for differently abled?	Yes, Lift and Ramp		No comments		No suggestions
12	Is there any Department library?	No		No comment	S	No suggestions

## XII Additional Information

1.	Does the curriculum of each programme offered by the department provide the Programme Educational Objectives (PEOs)/Programme Specific Outcomes (PSOs) and Programme Outcomes (POs)?	Yes
2.	Do the courses offered in each programme by the department provide the Course Objectives and Course Outcomes (COs) written in clear terms?	Yes
3.	Give the status of adopting Choice Based Credit System (CBCS) in the programmes offered by the department	
4.	Give the status of adopting Objective Based Education (OBE) in the programmes offered by the department.	Not yet initiated
5.	Satisfaction level of support of academic, administrative, and other support units of the institution	Excellent
6.	The status of taking feedback from stakeholders and expert groups for revision and design of curriculum of a programme.	Student Faculty Alumni Employers Academic Peers
7.	The list of extension programmes conducted by the department	
8.	List Faculty Development Programme conducted (any programme aiming at updating the knowledge of faculty of the department).	
9.	Does students take projects involving Field work/Survey. If yes, give the list.	
10.	The List of MoU and MoAs, that are currently operational during the year.	

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		Advisors guide
		students on course
		selection, study
		plans, and academic
	A set of the set of	goals. For
	[10] A. M.	disadvantaged
		students, advisors
	and a second descent from a three the only is presented to be a first of the second second second second second	can help with
		creating customized
		academic plans and
		recommending
		appropriate
	Detail the mechanism adopted to help academically disadvantaged students to cope with	resources.
11.	academic requirements	Psychological and
	academic requirements	academic
		counseling helps
		students cope with
		stress, anxiety, or
		other issues that
		might hinder their
		academic
		performance.
		Mentoring programs
		provide role models
		and offer guidance
		on both academic
		and personal growth
		Peer mentoring
		provides struggling
		students with
		guidance and
		support from more
		experienced
		students. Mentors
12.		can offer academic
		advice, study tips,
		and emotional
		support, helping
		· · · ·
		mentees navigate their academic
		challenges.
13.	The total grant/revenue generated/received from different agencies by the department	
11	conducting research projects/consultancy services during the year.	
14.	The suggestions to improve the efficiency and effectiveness of the IIST system.	

#### XIII Strength of the Department (maximum 150 words)

#### XIV Weakness of the Department (maximum 150 words)

### XV Challenges (maximum 150 words)

### XVI Opportunities (maximum 150 words)

#### XVII Any other details relevant to the department

#### Final Recommendations

On the day of visit, the team verified all the documents and records available in the department and evaluated the academic process. A detailed report of the audit is given above. The report is signed by the following:

#### Signature of Committee Members

Dr. Govindan Kutty

M, Associate Professor, Earth & Space Sciences: Dr. Rama Rao

2 Nidamanuri, Professor, Earth & Space Sciences:

3 Dr. Deepak Mishra, Professor, Avionics:

Dr. Anand

4 Narayanan, Professor, Earth & Space Sciences:

e Members	toolef
	Damarla
De	epal -
$\bigcirc$	

Approved by,

Dean Academics.

प्रोफ. कुरुविळा जोसफ़/Prof. Kuruvilla Joseph डीन (शैक्षि,ज़े), आईआईप्राल्ट्रे5, 9:59 Dean (Academics), IIST

of 18