Department of Geology & Environmental Science

In collaboration with

TerraPy Education

(MSME Certified and is ISO 9001 and IAO accreditated)

Conducting an

Advanced Course in Structural Geology

Mr. Pragnyadipta Sen
TerraPy Education, Kolkata

Co- ordinators:

Ms. Roshini P.P.
Dr. Linto Alappat

Topics Covered:

- ***Vectors in Structural Geology***
- ***Extracting information from Maps***
- ***Transformations in Structural Geology***
- ***Matrices and Tensors***
- ***Stress and Mohr Circle***
- ***Laboratory Techniques in Finite Strain Analysis***

ADVANCED COURSE IN STRUCTURAL GEOLOGY

COURSE-CORDINATOR REPORT

Course Code: GEO0STRGL

Number of Students	58
Date of Examination	16/12/2023
Total Students who passed exam	58
Total Course duration	50 hrs

Feedback analysis:

- The class was very enlightening.
- It helped the students gain the knowledge of structural problems.
- It helped the students to look into the geological problems with easy methods and strategies to solve each of the problems.
- The simple way of teaching helped the students understand more about the complicated structural problems.
- Most of the students enjoyed the classes.

Course Coordinators: Dr. Linto Alappat, Ms. Roshini P.P.

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

Accredited by NAAC with 'A++' Grade, Affiliated to University of Calicut

Structural Geology short course Report

The course was organized by Department of Geology and Environmental Science and the short course took place on 5th -February 2024 to 9th February 2024 at the Fr. Dismas hall.

The training session was opened by a formal welcome ceremony at Fr. Dismas hall. Dr Anto Francis was welcomed our resource person Rahul Nag from IIT Bombay, participants and colligues. 75 students were participated in the course. Dr. Linto Alappat (Dean of research, Assistant professor,Department of Geology and Environmental science) was the programme convenor and Ms. Sweeshma Pdev and Dr. Sunitha D (Faculties of Department of Geology and Environmental Science) was coordinated the five day short course.

Aims and Objective of the course :

- Be able to understand, discuss, and apply the most important concepts of structural geology.
- Be able to creatively solve problems in structural geology and solve the geometrical problems in structural geology by using stereographic projection method.
- The description and interpretation structures in deformed rocks helps us to understand the tectonic evolution of an area from the maps.

Short course Syllabus and teaching plan

Day1(5/02/2024,Monday) Forenoon Session-Time-10AM-12PM

Planes and lines in structural geology, dip, strike, pitch, plunge (Theory); AfternoonSession-Time-1PM-3PM

Principles and applications of stereo-netand plotting of planes and lines(Lab);

Day2(06/02/2024,Tuesday)

ForenoonSession-Time-10AM-12PM Folds, faults, joints(Theory);

Afternoon Session -Time-1 PM -3PM Stereonet plotting:Folds and interlimb angle(Lab);

Day 3(07/02/2024, Wednesday) Forenoon Session-Time-10 AM -12 PM Unconformities foliations, lineation(Theory);

AfternoonSession-Time-1PM–3 PM

Identification and interpretation of geological features intopographic maps(Lab);

Day4(08/02/2024,Thursday)

Forenoon Session-Time-10AM-12PM

Construction of geological cross-sections: Strikelines ,stratum contours and drawing unconformities ingeological cross sections (Lab).

Afternoon Session -Time-1 PM -3PM Construction of geological cross-sections: Folds and faults (Lab)

Day 5 (09/02/2024, Friday) ForenoonSession-Time-10AM-12PM

Identification and interpretation of structural elements in geological maps:Faults, folds, unconformities(Lab).

Brochure

Strength of the programme

1. The resource person was very cooperative.
2. Great support from colleagues and students
3. Students were actively participated.
4. We all kept proper time management and could completed every session on proper time by well executed planning

weakness of the programme

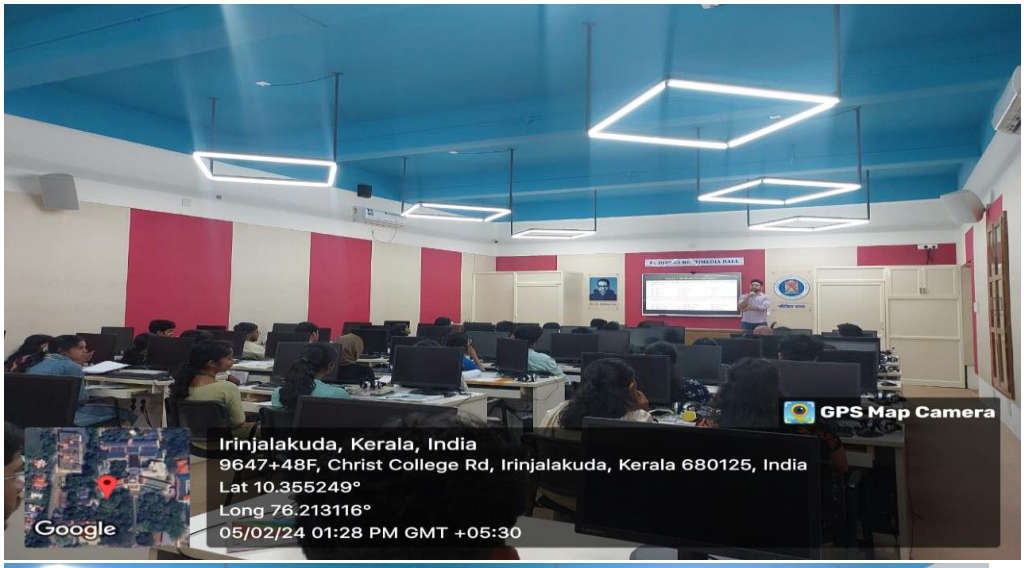
1. No change in the previous year syllabus and due to that PG second year (2nd MSc Applied Geology) students become repetition in one or two session

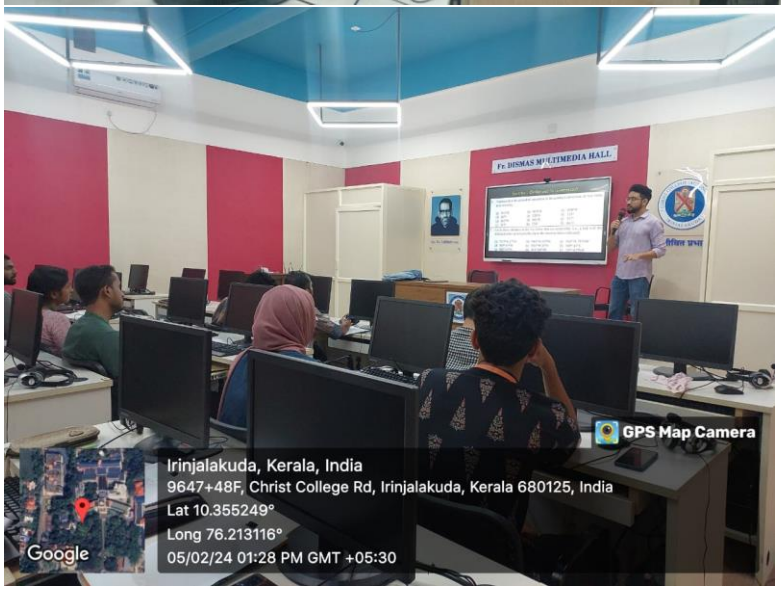
2. Some of weak students (BSc) students needed more detailing on basics and they take extra time to complete mapping practical sessions.

Outcomes of the course

Students can interpret the geological maps and the 2D representation of a 3D structures by various maps and stereographic projection method. By structural Analysis they could identify and interpret faults, folds, and unconformities on geological maps deepened and they can understand of Earth's structural history from various maps .

Photos Of the short course






Fr. DISMAS MULTIMEDIA
GPS Map Camera
Irinjalakuda, Kerala, India
9647+48F, Christ College Rd, Irinjalakuda, Kerala 680125, India
Lat 10.35528°
Long 76.213086°
09/02/24 03:43 PM GMT +05:30
Google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GPS Map Camera
Irinjalakuda, Kerala, India
9647+48F, Christ College Rd, Irinjalakuda, Kerala 680125, India
Lat 10.35528°
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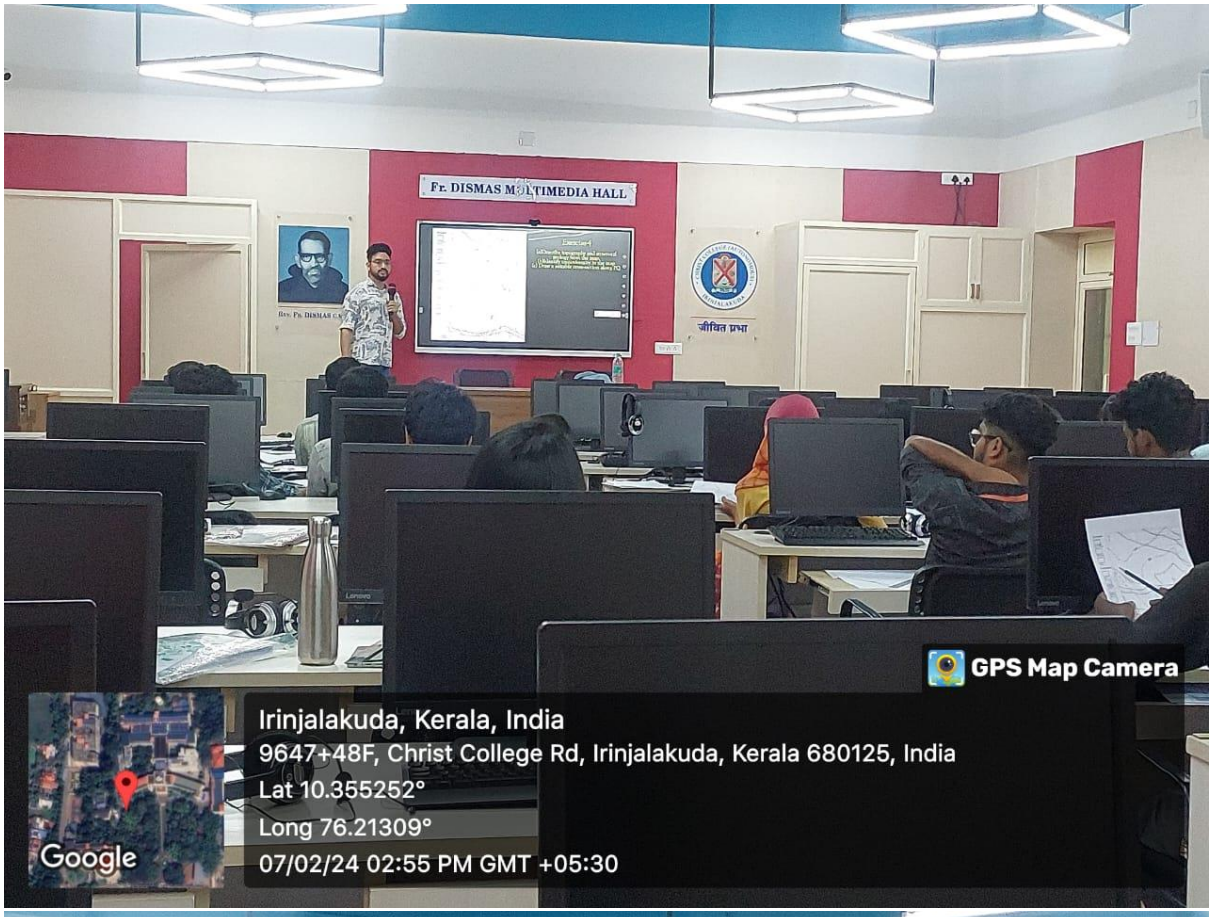
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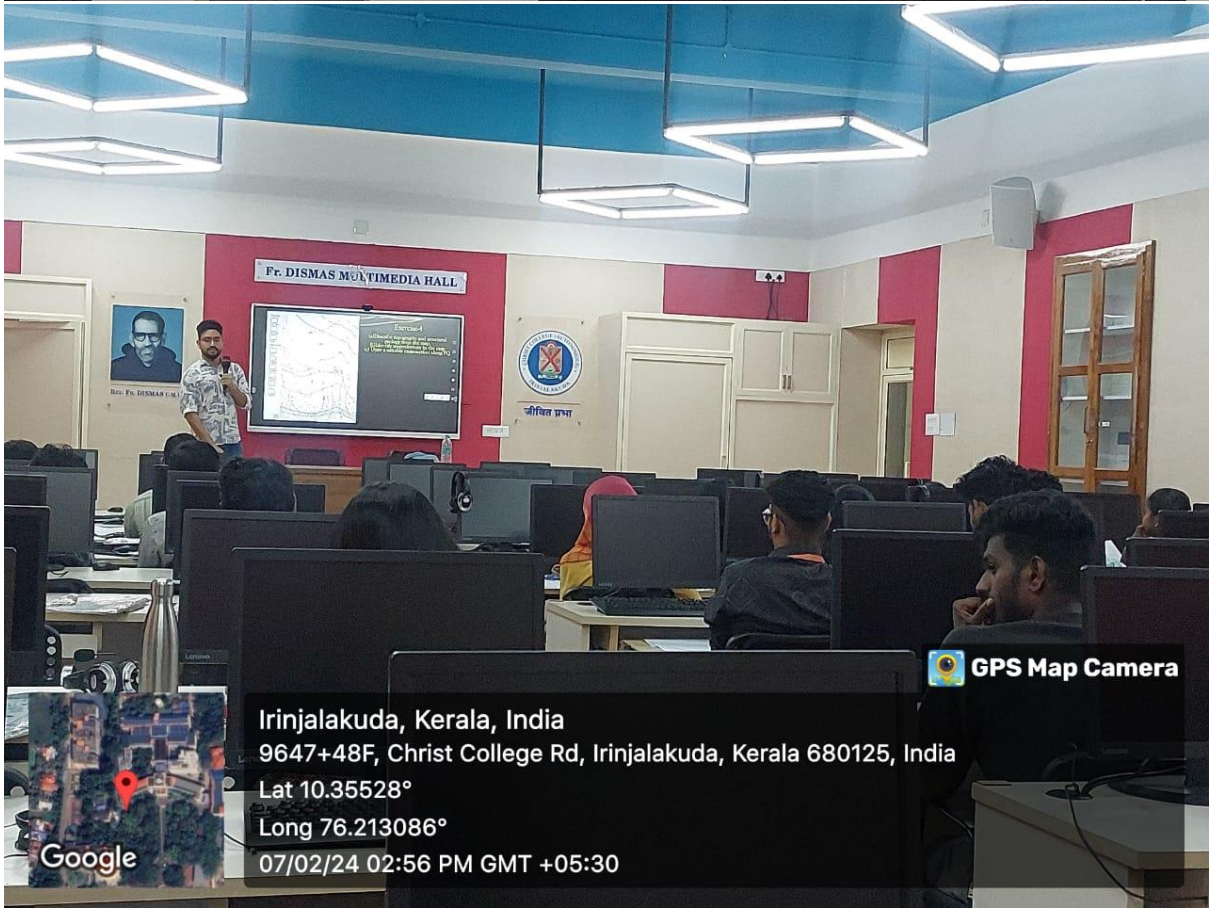
Fr. DISMAS MULTIMEDIA HALL
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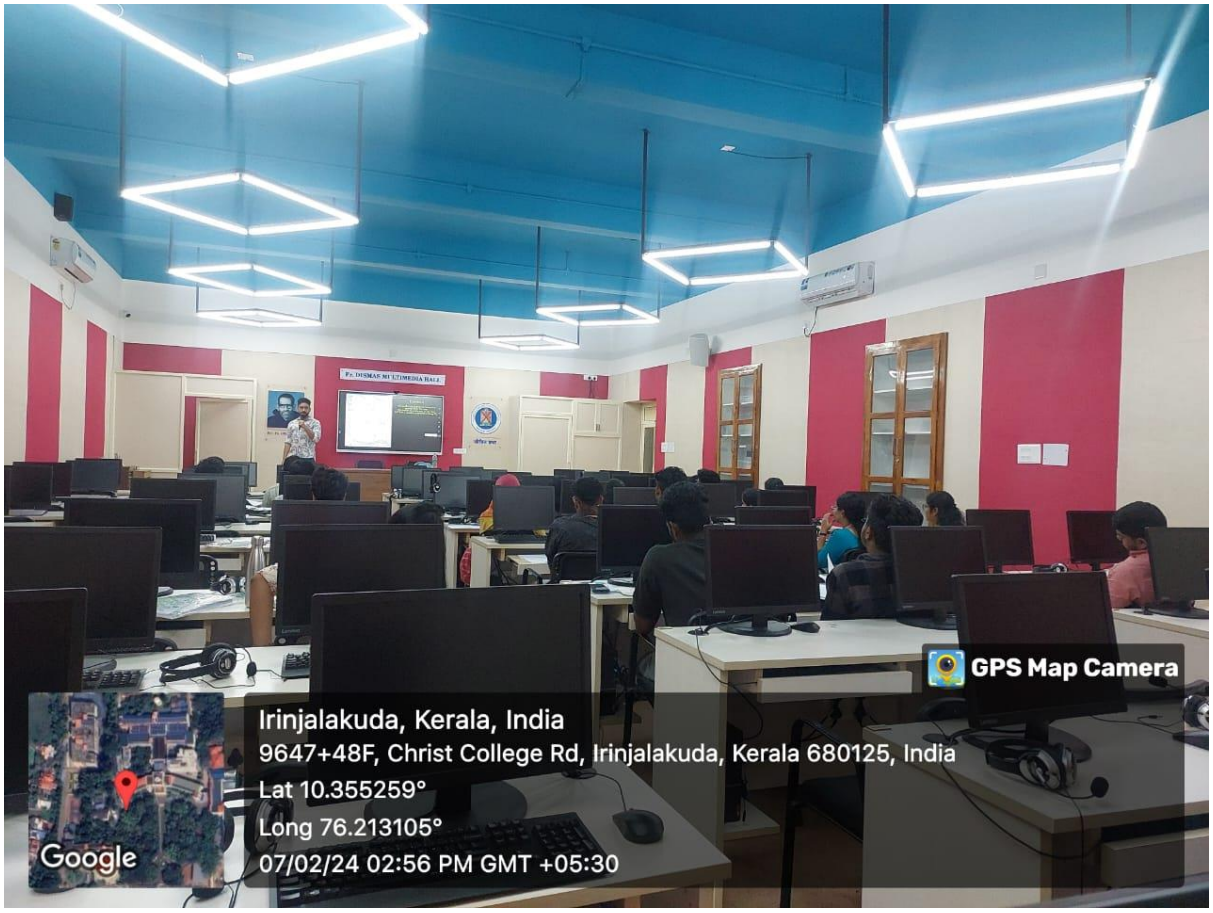
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Lat 10.355259°
Long 76.213105°
07/02/24 02:56 PM GMT +05:30
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Certificate Course on "Advanced Course in Structural Geology" (11.10-12.30 pm)

STAFFATTENDANCE REGISTER ..... FOR..... 20 ...23...

Sl. No.	Designation	NAME	DATE / DAYS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Casual Leave: In the Month	Casual Leave: Previous	Casual Leave: Total	Casual Leave: Remarks
1.		Alana Maria Koshy	M	✓	A		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																				
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2		Aisha T.H.	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																				
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3		Amalkrishna K.B.	M	✓	✓		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																				
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4.		Arun Thejas V.S.	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																				
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5.		Harinarayanan A.	M	✓	A		A	A		✓	✓	A		✓	✓	✓	A	✓																				
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6.		Jovial Sebastian Joby	M	✓	✓		✓	✓		A	✓	✓		✓	✓	✓	A	✓																				
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7.		Nishel C.S.	M	✓	✓		✓	A		✓	✓	✓		✓	✓	✓	✓	✓																				
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8.		Pavithra Raju Kudilliparambil	M	✓	✓		✓	✓		✓	✓	A		A	✓	✓	✓	✓																				
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9.		Sreechandana H. Santhosh	M	✓	A		✓	A		✓	✓	✓		✓	✓	✓	✓	-																				
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10.		Adone Reji	M	✓	✓		✓	✓		A	✓	A		✓	✓	✓	A	✓																				
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11.		Adyalakshmy M.S.	M	✓	A		✓	✓		✓	✓	✓		A	A	✓	✓	✓																				
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12.		Alan Jose	M	✓	✓		A	✓		✓	✓	✓		✓	✓	A	✓	✓																				
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13.		Aleena Shajan	M	✓	A		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																				
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14.		Anam Mohamed Shareef	M	A	A		A	✓		✓	A	A		✓	✓	✓	✓	✓																				
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15		Ananthakrishnan K.R.	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																				
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STAFFATTENDANCE REGISTER ..... FOR 20 23

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1.		Alana Maria Koshy	M	✓	A		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																				
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2		Aisha T.H.	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																				
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3		Amalkrishna K.B.	M	✓	✓		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																				
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4.		Arun Thejas V.S.	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																				
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5.		Harinarayanan B.	M	✓	A		A	A		✓	✓	A		✓	✓	✓	✓	✓																				
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6.		Jovial Sebastian Joby	M	✓	✓		✓	✓		A	✓	✓		✓	✓	✓	A	✓																				
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7.		Mishel C.S.	M	✓	✓		✓	A		✓	✓	✓		✓	✓	✓	✓	✓																				
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8.		Pavithra Raju Kudilliparambil	M	✓	✓		✓	✓		✓	✓	A		A	✓	✓	✓	✓																				
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9.		Sreechandana H. Santhosh	M	✓	A		✓	A		✓	✓	✓		✓	✓	✓	✓	✓																				
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10.		Ashone Reji	M	✓	✓		✓	✓		A	✓	A		✓	✓	✓	A	✓																				
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11.		Adyalakshmy M.S.	M	✓	A		✓	✓		✓	✓	✓		A	A	✓	✓	✓																				
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12.		Alan Jose	M	✓	✓		A	✓		✓	✓	✓		✓	✓	A	✓	✓																				
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13.		Aleena Shajan	M	✓	A		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																				
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14.		Anam Mohamed Shareef	M	A	A		A	✓		✓	A	A		✓	✓	✓	✓	✓																				
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15		Ananthakrishnan K.R.	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																				
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16.		Asif Minhaj N.T.	M	✓	✓		✓	✓		A	A	A		A	✓	✓	✓	✓																			
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17.		Bhadra K.V.	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	A	✓																			
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18.		Evon Luxie Wilfred.	M	A	A		A	✓		✓	✓	✓		✓	✓	A	✓	✓																			
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19.		Fida Fathima P.N.	M	✓	A		✓	✓		✓	✓	✓		A	✓	A	A	✓																			
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20		Gopika G.	M	✓	A		✓	A		✓	✓	✓		✓	✓	A	✓	✓																			
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21		Jisna Francis	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																			
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22		Nisma	M	✓	✓		✓	✓		A	A	A		A	A	A	A	A																			
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23		Nijna P.N.	M	✓	A		✓	✓		✓	✓	A		A	✓	✓	A	✓																			
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24.		Parthasaradhi M.S.	M	✓	✓		A	✓		✓	✓	✓		✓	✓	✓	✓	✓																			
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25.		Shahal Ahammed A.M.	M	✓	✓		✓	✓		✓	A	A		✓	✓	✓	✓	✓																			
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26		Vijesh U Guruprasad.	M	✓	✓		A	A		✓	✓	A		✓	✓	✓	✓	✓																			
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27.		Abel Thomas	M	A	A		A	✓		✓	✓	✓		✓	✓	✓	✓	✓																			
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28.		Akhila Nampadakkunnel Santhosh.	M	A	A		A	✓		✓	✓	✓		A	✓	✓	✓	✓																			
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29		Akshay Raj	M	A	A		A	A		✓	✓	✓		✓	✓	A	✓	✓																			
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30		Anupama S.	M	A	A		A	✓		✓	✓	✓		✓	✓	✓	✓	✓																			
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31.		Arun Vikram P.S.	M	A	A		✓	✓		✓	✓	A		✓	✓	✓	✓	A																			
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32.		Aysha Saleem	M	A	✓		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																			
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33		Caren Vencilavouse	M	A	A		A	A		A	✓	A		✓	A	A	✓	✓																			
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34		Jiswin Johnson	M	A	✓		✓	✓		✓	✓	A		✓	✓	✓	✓	A																			
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35		Jithin C.F.	M	A	A		A	A		✓	✓	✓		✓	✓	✓	✓	✓																			
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36		Krishnaprasad M.	M	A	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																			
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37.		Medha V.M.	M	A	✓		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																			
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38.		Nava Lakshmy N.S.	M	A	A		✓	✓		A	✓	✓		✓	A	✓	✓	✓																			
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39		Pooja K.	M	A	A		A	A		✓	✓	✓		✓	✓	A	✓	✓																			
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40		Setharaman K.S.	M	A	A		A	A		A	A	A		✓	✓	A	A	A																			
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41		Sooryan K.S.	M	A	✓		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																			
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42		V.P. Krishna.	M	A	✓		✓	✓		✓	✓	✓		A	✓	✓	✓	✓																			
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43		Adithyakrishnan S.	M	A	A		A	A		A	A	A		A	A	A	A	A																			
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44		Anin Mary John	M	A	A		✓	✓		✓	✓	A		A	✓	A	✓	✓																			
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45		Anzia Fazil	M	A	A		A	A		A	A	A		A	A	A	A	A																			
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46.		Arul Mejas	M	✓	A		A	✓		✓	✓	A		✓	✓	A	✓	✓																				
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47.		Ashby Ann Mathew	M	A	A		✓	✓		✓	✓	A		A	✓	A	✓	✓																				
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48		Aswin Menon.	M	✓	✓		✓	✓		✓	✓	A		A	A	✓	✓																					
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49		Danie Mathew	M	✓	A		A	✓		✓	✓	A		✓	✓	✓	✓	✓																				
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50		Delphy Manuel	M	✓	A		✓	✓		✓	✓	A		✓	✓	✓	✓	✓																				
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51.		Hamd Bin Abdurehman	M	A	A		A	A		A	A	A		A	A	A	A																				
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52		Megha C.M.	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																				
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53		Nandapriya J.	M	✓	✓		A	✓		✓	✓	✓		✓	✓	✓	✓	✓																				
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54.		Nandhakumar A.K.	M	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓																				
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55		A.S. Anantbajith.	M	A	A		A	A		A	A	A		A	A	A	A																				
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56		Sanika K.S.	M	✓	A		✓	✓		A	✓	A		✓	✓	✓	✓	✓																				
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57		Shana Jasmin T.K.	M	A	A		✓	✓		A	A	A		A	A	A	A																				
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58		Shilpa Shaju M.	M	✓	A		✓	✓		✓	✓	A		A	✓	✓	✓	✓																				
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Sl. No.	Name of the students	Batch/ Class
1	Alana Maria Koshy	3rd Yr M.Sc. Int.
2	Aisha T. H.	3rd Yr M.Sc. Int.
3	Amal Krishna K.B.	3rd Yr M.Sc. Int.
4	Arun Thejus V.S.	3rd Yr M.Sc. Int.
5	Harinarayanan A.	3rd Yr M.Sc. Int.
6	Jovial Sebastian Joby	3rd Yr M.Sc. Int.
7	Mishel C S	3rd Yr M.Sc. Int.
8	Pavithra Raju Kudiliparambil	3rd Yr M.Sc. Int.
9	Sreechandana H Santhosh	3rd Yr M.Sc. Int.
10	Adone Reji	3rd Yr M.Sc. Int.
11	Adyalakshmi M.S.	3rd Yr M.Sc. Int.
12	Alan Jose	3rd Yr M.Sc. Int.
13	Aleena Shajan	3rd Yr M.Sc. Int.
14	Anam Mohamed Shareef	3rd Yr M.Sc. Int.
15	Ananthakrishnan K.R.	3rd Yr M.Sc. Int.
16	Asif Minhaj N. T.	3rd Yr M.Sc. Int.
17	Bhadra K.V.	3rd Yr M.Sc. Int.
18	Evon Luxie Wilfred	3rd Yr M.Sc. Int.
19	Fida Fathima P N	3rd Yr M.Sc. Int.
20	Gopika G	3rd Yr M.Sc. Int.
21	Jisna Francis	3rd Yr M.Sc. Int.
22	Nisma	3rd Yr M.Sc. Int.
23	Nizna P.N.	3rd Yr M.Sc. Int.
24	Parthasaradhi M. S.	3rd Yr M.Sc. Int.
25	Shahal Ahamed A.M.	3rd Yr M.Sc. Int.
26	Vijesh U. Guruprasad	3rd Yr M.Sc. Int.
27	Sooryan K S	4th Yr M.Sc. Int.
28	Aysha Saleem	4th Yr M.Sc. Int.
29	Anupama S	4th Yr M.Sc. Int.
30	Pooja K	4th Yr M.Sc. Int.
31	Jithin C F	4th Yr M.Sc. Int.
32	Akshay Raj	4th Yr M.Sc. Int.
33	Caren Vencilavouse	4th Yr M.Sc. Int.
34	Nava Lakshmi N S	4th Yr M.Sc. Int.
35	Akhila Nampadakkunnel Santhosh	4th Yr M.Sc. Int.
36	Jiswin Johnson	4th Yr M.Sc. Int.
37	Krishnaprasad M	4th Yr M.Sc. Int.
38	Sethuraman K S	4th Yr M.Sc. Int.
39	Abel Thomas	4th Yr M.Sc. Int.
40	Arun Vikram P S	4th Yr M.Sc. Int.

41	Medha V M	4th Yr M.Sc. Int.
42	V P Krishna	4th Yr M.Sc. Int.
43	Adithyakrishnan S.	2nd Yr M.Sc. Applied Geo.
44	Anin Mary John	2nd Yr M.Sc. Applied Geo.
45	Anzia Fazil	2nd Yr M.Sc. Applied Geo.
46	Arul Thejus	2nd Yr M.Sc. Applied Geo.
47	Ashby Ann Mathew	2nd Yr M.Sc. Applied Geo.
48	Aswin Menon	2nd Yr M.Sc. Applied Geo.
49	Danie Mathew	2nd Yr M.Sc. Applied Geo.
50	Delphy Manuel	2nd Yr M.Sc. Applied Geo.
51	Hamd Bin Abdurehman	2nd Yr M.Sc. Applied Geo.
52	Megha C M	2nd Yr M.Sc. Applied Geo.
53	NandapriyaT	2nd Yr M.Sc. Applied Geo.
54	Nandhakumar A K	2nd Yr M.Sc. Applied Geo.
55	R. S. Ananthajith	2nd Yr M.Sc. Applied Geo.
56	Sanika K S	2nd Yr M.Sc. Applied Geo.
57	Shana Jasmin T K	2nd Yr M.Sc. Applied Geo.
58	Shilpa Shaju M	2nd Yr M.Sc. Applied Geo.

Department	University Reg. No.
Department of Geology & Environmental Science	CCAVIGL001
Department of Geology & Environmental Science	CCAVIGL002
Department of Geology & Environmental Science	CCAVIGL003
Department of Geology & Environmental Science	CCAVIGL004
Department of Geology & Environmental Science	CCAVIGL005
Department of Geology & Environmental Science	CCAVIGL006
Department of Geology & Environmental Science	CCAVIGL007
Department of Geology & Environmental Science	CCAVIGL008
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Department of Geology & Environmental Science	CCAUIGL001
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Department of Geology & Environmental Science	CCAUIGL015
Department of Geology & Environmental Science	CCAUIGL016
Department of Geology & Environmental Science	CCAWMAG001
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Department of Geology & Environmental Science	CCAWMAG014
Department of Geology & Environmental Science	CCAWMAG015
Department of Geology & Environmental Science	CCAWMAG016

Course Name	Commencement Date	Duration
Advanced Structural Geology	12-01-2023	15 Days
Advanced Structural Geology	12-01-2023	15 Days
Advanced Structural Geology	12-01-2023	15 Days
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Advanced Structural Geology	12-01-2023	15 Days

ADVANCED STRUCTURAL GEOLOGY

Value Added Certificate Course

Course Code: GEO0STRGL

The course started on December 1st 2023.

There were 58 students and 58 students completed the course. The course was of 50 hrs. duration (10 theory hrs. and 40 practical hours). Students enjoyed the course and appreciated the efforts of the department in initiating such a course that would benefit their future endeavors.

The main topics covered in the course are as follows:

- Vectors in Structural Geology
- Extracting information from Maps
- Transformations in Structural Geology
- Matrices and Tensors
- Stress and Mohr Circle
- Laboratory Techniques in Finite Strain Analysis

Course Outcome:

The students were satisfied with the class. They were given different aspects of Structural Geology. Introduced quantitative structural geology using matrices, vectors and tensors. Basic concepts of matrices, vectors and tensors are reviewed. Problems in Structural Geology are solved using quantitative techniques. A number of open-source software implementation taught with examples and laboratory assignments.

Course Coordinators: Dr. Linto Alappat, Ms. Roshini P.P.

ADVANCED STRUCTURAL GEOLOGY

Value Added Certificate Course

Course Code: GEO0STRGL

Number of Students	58
Date of Examination	16/12/2023
Total Students who passed exam	58
Total Course duration	50 hrs

Feedback analysis:

- The class was very enlightening.
- It helped the students gain the knowledge of structural problems.
- It helped the students to look into the geological problems with easy methods and strategies to solve each of the problems.
- The simple way of teaching helped the students understand more about the complicated structural problems.
- Most of the students enjoyed the classes.

Course Coordinators: Dr. Linto Alappat, Ms. Roshini P.P.

ADVANCED STRUCTURAL GEOLOGY

Value Added Certificate Course

Course Code: GEO0STRGL

Students are evaluated on the basis of practical examination (70%), theory examination (20%) and Viva examination (10%). For the assessment of student ability to apply the acquired knowledge, geology related problem was given to all the candidates. The problem solving using the basics of Programming in Python and viva constituted the final 80% of the student evaluation process. Only those students who have solved the problem were allowed to attend the final examination.

Course Coordinators: Dr. Linto Alappat, Ms. Roshini P.P.

CERTIFICATE

OF COMPLETION

This is to certify that _____

has fulfilled all the requirements of the certificate course in ***Advanced Structural Geology*** conducted by the Department of Geology and Environmental Science, Christ College (Autonomous), Irinjalakuda in collaboration with TerraPy Education, Kolkata (MSME certified, ISO 9001 and IAO accredited). He/She has achieved an ____ grade.

Awarded this [ ] day of [ ]

Rev. Dr. Jolly Andrews, CMI	Dr. Linto Alappat	Pragnyadipta Sen
Principal	Coordinator	TerraPy Education