



# Parvatibai Chowgule College of Arts and Science (Autonomous)



Accredited by NAAC with Grade 'A+'

Best Affiliated College-Goa University Silver Jubilee Year Award

<b>REPORT OF DISCUSSION FORUM</b>	
<b>Title:</b>	<b>'Certificate Course on Research Methodology'</b>
<b>Date and year:</b>	9 <sup>th</sup> August, 2022 to 10 <sup>th</sup> September, 2022
<b>Venue:</b>	Flipped Classroom
<b>Resource person/s:</b>	1. Dr. Sobita Kirtani 2. Aresh Naik 3. Dr. Sachin Moraes 4. Dr. Charlane Periera 5. Aakrushi Brahmabhatt 6. Dr. Madhu Vanagondi
<b>Organizing Committee</b>	Department of Psychology
<b>No. of Participants</b>	Registered: 23 Regular attendance: 16
<b>Objective:</b>	1. To enable students to understand the flow of research and the basic framework of research 2. To enable students to collect data efficiently 3. To enable students to write a report following APA 7th ed guidelines
<b>Summary of the proceedings</b>	<p>The Department of Psychology conducted a Certificate Course on Research Methodology from 9<sup>th</sup> August, 2022 to 10<sup>th</sup> September 2022. 15 sessions of 2 hours each were held covering 09 broad areas of research. The course was conducted by six resource persons.</p> <p>Inaugural function for the course was held on 8<sup>th</sup> August for which Dr. Nandakumar Sawant was the Chief Guest.</p> <p>Valedictory was held on 14<sup>th</sup> September, 2022 for which Dr. G.K. Naik was invited as the Chief Guest. Certificates were conferred upon students having more than 50% attendance.</p> <p>Two students of Second Year, Ms. Shrinidhi Karkal and Ms. Riya Naik were given 30 hours of non-evaluative credits for being student volunteers for smooth conduct of the course.</p>
<b>Photographs</b>	



Inaugural on 8<sup>th</sup> August – Prof. N.N. Sawant as the Chief Guest



Dr. Madhu Vanagondi



Ms. Poonam Joshi



Ms. Aakrushi Brahmabhatt



Dr. Sobita Kirtani



Mr. Aresh Naik



Dr. Sachin Moraes



Valedictory on 16<sup>th</sup> September, 2022 with Dr. G.K. Naik as the Chief Guest



Participants of the CCRM 2022



Chowgule Education Society's  
Parvatibai Chowgule College of Arts and Science  
(Autonomous)

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# CERTIFICATE

THIS IS TO CERTIFY THAT

**Mr. Jayvant Vasant Mokal**

HAS SUCCESSFULLY COMPLETED THE "BASIC  
MODULE IN GEOINFORMATICS" FOR PROFESSIONALS  
ORGANIZED BY DEPARTMENT OF GEOGRAPHY &  
RESEARCH CENTER, PARVATIBAI CHOWGULE  
COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS),  
MARGAO- GOA

FROM 11TH MARCH, 2023-21ST MARCH, 2023

Mr. Deepak Kumbhar  
Coordinator

Prof. Nandkumar Sawant  
Head, Department of Geography

Prof. Sangeeta Sankhalkar  
Offg. Principal



Dr. Anil Yedage  
Mentor, Geoinformatics  
Department of Geography & Research Centre  
Parvatibai Chowgule College of Arts & Science (Autonomous)

Date: 31<sup>st</sup> March 2023

Offg. Principal  
Parvatibai Chowgule College of Arts & Science (Autonomous)

Sub: Settlement of Bills for Short Term Course

Respected Principal,

Kindly find attached herewith the bills of the expenditure made towards the 5 days short term programme "Application of Geospatial Technology in Disaster Management".  
The Total fees collected from the students who attended the short term course is 6600/-  
Kindly find budget of the short term course attached below:

Programme Income Fees  
Infrastructure Cost (15%)  
Brand Cost (10%)  
Faculty/ Facilitator Cost (60%)  
Proposer Compensation  
College Retention

7788 6600/- 7788  
1168 1162 990/-  
779 778 660/-  
4613 4672 3960/-  
818 813 693/-  
350 348 297/-

The faculty and Facilitator details are mentioned below:


Faculty/ Facilitator (700(Per Day)X 05)= 3500/-	Dr. Anil Yedage
Certificate Charges 225/-	
<b>Total 3725/-</b>	

Kindly do the needful.

Thanking you

Yours faithfully

  
Dr. Anil Yedage  
Mentor, Geoinformatics  
Department of Geography & Research Centre  
Parvatibai Chowgule College of Arts & Science (Autonomous)

Parvatibai Chowgule College of Arts and Science (Autonomous)	
IW Date	31/3/23
IW No.	1248
Prin.	
Vice	31/3/23
Head	
Action By:-	TO accounts



**Parvatibai Chowgule College of Arts and Science  
(Autonomous)**

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Best affiliated College - Goa University Silver Jubilee Year Award.

# CERTIFICATE

**THIS IS TO CERTIFY THAT**

Ms. HEMA SAWANT

HAS SUCCESSFULLY COMPLETED THE "APPLICATION OF  
GEOSPATIAL TECHNOLOGY IN DISASTER MANAGEMENT"  
FOR PROFESSIONALS/STUDENTS ORGANISED BY DEPARTMENT  
OF GEOGRAPHY & RESEARCH CENTER (GEOINFOMATICS),  
PARVATIBAI CHOWGULE COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS), MARGAO - GOA.

FROM 27th MARCH - 31st MARCH 2023.

**Dr. ANIL YEDAGE**  
Coordinator

**PROF. SANGEETA SANKHALKAR**  
Offg. Principal





## REPORT ON CAMPUS ACTIVITY

(Seminar / Webinar / Expert talk / **Workshop** / Visit to Incubators on the themes pertaining to Innovation/Entrepreneurship/Intellectual property)

<b>Title of the event</b>	6-days hands on workshop on Molecular Biology techniques
<b>Date and time</b>	9 <sup>th</sup> to 15 <sup>th</sup> March 2023 (11.45 am to 6.00pm/day)
<b>Mode</b>	√ <b>Offline/Online/Hybrid (√)</b>
<b>Organising Department/School/Directorate/Section</b>	Biotechnology, Biochemistry and Botany sponsored by Directorate of Higher Education (DHE, Goa)
<b>Resource Person/s</b>	<ul style="list-style-type: none"><li>● Dr. Starlaine Mascarenhas, Assistant Professor &amp; HoD, Dept. of Biotechnology, PCCAS.</li><li>● Ms. Sarah Mesquita, Assistant Professor, Dept. of Biochemistry, PCCAS.</li><li>● Dr. Shaiesh Morajkar, Assistant Professor, Dept. of Biotechnology, PCCAS.</li><li>● Dr. Supriya N. Prabhu Khorjuvenkar, Assistant Professor, Dept. of Biochemistry, PCCAS.</li><li>● Dr. Anasuya Ganguly, Associate Professor, Dept. of Biological Sciences, BITS PILANI, K.K. Birla Goa campus.</li><li>● Dr. Arnab Banerjee, Associate Professor, Dept. of Biological Sciences, BITS PILANI, K.K. Birla Goa campus.</li><li>● Dr. Aduja Naik, Assistant Professor and HoD, Dept. of Biochemistry, PCCAS.</li></ul>
<b>Participants in house</b>	Faculty: Nil, <b>Students: 31</b> Others: Nil
<b>Participants (External)</b>	Faculty, Students, Others:Nil
<b>Faculty attended</b>	Nil
<b>Students attended</b>	31
<b>Total Participants</b>	31
<b>The objectives and description of the activity</b>	Faculty of the Departments of Biotechnology-Dr.Starlaine Mascarenhas, Biochemistry-Ms.Sarah Mesquita and Botany-Ms.Amisha Shirodker of Parvatibai Chowgule College of Arts and Science organized a '6-day Hands-on workshop on Molecular Biology Techniques' sponsored by Directorate of Higher



Education(DHE),Goa from 9th-15th March 2023 in college premises.31 undergraduate science students underwent training in the workshop. The objective was to give hands-on training in various core molecular-biology techniques essential in diagnostic and pharmaceutical industries.

The workshop was inaugurated by Officiating Principal of college-Dr.(Prof.)Sangeeta Sankhalkar on 9th March 2023.The workshop organisers-Dr.Starlaine Mascarenhas,Ms.Amisha Shirodker,Ms.Sarah Mesquita and 31 registered participants were present.Offg.Principal congratulated the organizers for conducting such skill-building activities in line with NEP-2020 objectives.This was followed by a practical session pertaining to DNA isolation from plant tissue.Isolated DNA was stored at -20°C for use in subsequent experiments.

The schedule on 10th March began with a lecture session by Dr.Shaiesh Morajkar.He highlighted importance of molecular-biology techniques in plant biology.He highlighted excerpts from his current research.Post-lunch,practical session pertaining to analysis and visualization of isolated DNA using gel-electrophoresis technique was conducted.

On 11th March,students devoted entire day with practicals.They isolated RNA from animal tissue and subjected to gel electrophoresis. Additionally,students were enlightened about principle and procedure of southern blotting technique with simultaneous preparation and storage of set-up. During post-lunch session,students worked on protein isolation.The obtained isolates were analysed for protein concentration.

On 13th March,students began with a lecture session conducted by Dr.Supriya Khorjuvenkar.She highlighted importance of nucleic acid isolation and detailed principles of isolation from various sources. The practical session post-lunch,continued with Southern blotting and preparation of gels for PAGE - polyacrylamide gel electrophoresis.

Plenary lecture sessions were conducted on 14th March by resource persons invited from BITS Pilani K.K.Birla Goa campus viz.Associate Prof.(s),Dr.Anasuya Ganguly and Dr.Arnab Banerjee. Dr. Anasuya elaborated on protein isolation and purification processes. Dr.Arnab highlighted significance, principles and procedures for protein expression and localization

	<p>studies at cellular level using immunofluorescence, immunohistochemistry, and western blotting. Both of them made an impact on students by sharing their personal experiences with the described techniques. For practicals, the students followed up on southern blotting and SDS-PAGE techniques.</p> <p>On the 15th, i.e. the last day of the workshop, the students had an interactive session with Dr. Aduja Naik who explained various techniques for study of genetic material post-isolation. This was succeeded by a hands-on experience with determination of purity and quality of isolated DNA. The students concluded the workshop with completion of all experiments, interpretation and reporting of results obtained for the same.</p> <p>The valedictory function was conducted on 17th March 2023 from 12 to 1pm. The workshop convener, Dr. Starlaine Mascarenhas extended a warm welcome to the dignitaries -Principal In-charge, Mr. Kumaresh V.C., Chief guest-DHE observer, Ms. Lily Endro, Asst. Prof., Department of Commerce at Government College of Commerce and Economics and Dean of Sciences, Dr. Meghana Devli. The Principal In-Charge expressed his gratitude to DHE for funding the workshop and congratulated the organizers for executing the same. Dr. Starlaine briefed the dignitaries and participants about day-wise proceedings of the workshop. This was concluded by certificate distribution to the participants and proposal of vote of thanks by Dr. Starlaine.</p>
<b>Attach copy of the Flyer event (if any)</b>	Attached
<b>URL of the event (if any)</b>	----
<b>Social Media posts and links: (if any)</b>	----
<b>Instagram link</b>	----
<b>Facebook link</b>	----
<b>Youtube link</b>	----
<b>Photos (minimum 5, geo-tagged)</b>	Attached
<b>Feedback</b>	Students found the workshop to be highly beneficial as they underwent training in various core molecular-biology techniques which find application in diagnostic and pharmaceutical industries.
<b>Benefit/Key outcome of the event in terms of learning/skills/knowledge</b>	The workshop enhanced the knowledge and practical skills of the participants in various core molecular biology techniques such as

	isolation/extraction of Nucleic acids (DNA, RNA); proteins isolation; estimation and purity analysis of nucleic acids (DNA, RNA); estimation of proteins; agarose gel electrophoresis for DNA and RNA; PAGE techniques and blotting techniques.
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**Signature of the Head of the Department/ Incharge : Dr.Starlaine Mascarenhas**