



Parvatibai Chowgule College of Arts and Science
Autonomous

Accredited by NAAC with Grade 'A' (CGPA Score 3.41 on a 4 Point Scale in 3rd cycle)
Best affiliated College-Goa University Silver Jubilee Year Award

**WORKSHOPS/SEMINARS CONDUCTED
ON RESEARCH METHODOLOGY (RM),
INTELLECTUAL PROPERTY RIGHTS
(IPR)
AND
ENTREPRENEURSHIP AND SKILL
DEVELOPMENT(ESD)**

2019-2020

Sr. No.	Name of the workshop/ seminar
1	ESD-Workshop on “Attainment of Courses Outcomes”(IQAC)
2	ESD-soft Skills: Critical thinking, lateral thinking,Problem based learning
3	RM- Orientation on Research Methodology
4	ESD- Mangroves of Goa in Troubled water- Mitigation Strategies
5	ESD-Life sans mangrove
6	ESD-Birdwatching in Goa
7	ESD-Birding in western ghats
8	ESD-Launched ‘Bird Identification App’ created inhouse
9	ESD-Workshop on ‘Human Rights’
10	ESD-Data Visualization & Statistical Computing using R
11	ESD-My Career through Sociology
12	ESD- Workshop on Mapping of Course Outcome
13	ESD-Workshop on ‘Build your E-Portfolio’
14	ESD-TechWeek 2019
15	ESD-SpringFramework -- from Persistent Systems from Verna Goa
16	ESD-Workshop on Herbal Cosmetology
17	ESD- React Js Software Developer from Numadic, Panaji
18	ESD-Workshop on Mushroom cultivation
19	IPR- Seminar on "Research Data Management' for facilitating H Index calculation (Bibliometrics]'
20	RM-Guest lecture on ‘Framing ‘Technology and Society’: From Colonial to Digital India’
21	RM-Certificate Course in ‘Wildlife Monitoring Technique’ funded by Directorate of Higher Education, Govt. of Goa.
22	RM-A Training Programme on ‘GPS – Basics & Field Applications’ organized under DBT Star College Scheme for the students of Skill Enhancement Course on Participatory Rapid Appraisal Techniques
23	ESD-Workshop on ‘Kitchen Gardening’
24	ESD-Talk on “How To Learn and Remember Periodic Table”
25	IPR- Seminar on "Metrics as a Measure of Scholarly Articles
26	IPR-Seminar on " IPR: It’s Relevance in Academics (IQAC)”
27	ESD-One-Day Workshop on Field-based Training - On Site Use of Current Meter, And Field Testers to Test Water - organized under DBT Star College Scheme
28	ESD-Workshop on “Hands on Training in Water and Soil Testing - Water and Soil Testing Lab Techniques” (under DBT star college scheme)

29	ESD-Workshop on “Academic Writing and Integrity”
30	ESD-- Training Programme on 'Developing soft skills, resume writing and fundamentals of facing an interview'
31	RM-Basic Training in GIS organized under DBT Star College Scheme for students of Geograph
32	ESD-Product Development Phases – Story Telling- Innovators in Campus
33	IPR- IPR in Academics-chemistry
34	IPR- IPR: Its Relevance in Academics-Biotechnology
35	IPR-Seminar on “Innovation/Social Innovation & Entrepreneurship”
36	ESD-Landscapes Evolution and Transformation’ organized under the DBT Star College Scheme
37	ESD-workshop on “Time Management”
38	ESD-Workshop on “Plagiarism and Assignment Writing”
39	IPR- IPR Its Relevance in Academics for Zoologist
40	IPR- IPR in Academics in Physics
41	IPR- “IPR: Its Relevance in academics for History”
42	ESD-Students Seminar Cum Exhibition on “Presentations of internships”
43	ESD-National Workshop on ‘Scientoons’ on theme ‘Clean India’
44	RM-Workshop on Mobile GIS Epicollect 5 conducted under DBT Star College Scheme for the students of Geography
45	ESD--National Seminar on "Prof. D.B.Wagh Memorial lecture series
46	ESD- Automated Software Testing using Selenium &jmeter , Persistent Systems Ltd, Goa
47	RM-Research Paper Presentation Competition under DBT Star College Scheme
48	ESD-' SCI-FAIR - Know your concepts'
49	ESD- Session on Artificial Intelligence
50	IPR- Short-term training course on Entrepreneurial Opportunities in Fermentation Food Technology
51	RM- Workshop on ‘Research Based Pedagogical Tools'
52	IPR- How to Plan for Start-up and Legal & Ethical Steps
53	ESD-Hangout with Successful Start-ups
54	IPR- Innovation, IPR & Entrepreneurship and Startup”



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Report on “Workshop on Attainment of course outcomes”

Title: Attainment of Courses Outcomes

Date: 21st – 22nd June 2019

No of Participants: 70

Summary: The Internal Quality Assurance Cell of the College organized a workshop on “Attainment of Courses Outcomes” for all the faculty members of the college from 21st – 22nd June 2019. Dr. Umakant Kulkarni, Department of Computer Science, SDM College of Engineering and Technology Dharwad was the Resource person for the same.



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REPORT OF 'SPECIAL INDUCTION PROGRAMME'

Title:	Special Induction Programme
Date and year:	21 st June 2019- 25 th June 2019
Venue:	A-202,ParvatibaiChowgule College of Arts and Science
Resource person/s:	Department Faculty Members
Organising Committee	Department of Zoology
No. of Participants	41
Objective:	To acquaint students with the department culture, modes of assessment and the activity planned for the academic year.
Summary of the proceedings	<p>The department of zoology conducted a 'Special Orientation Program'. The students of FYBSc, SYBSc and TYBSc, were oriented on various issues viz examination pattern, theory and practical assessment modes, activities planned for the year 2019-2020 and departmental events, club, delegation of responsibilities for campus activities, usage of CLAAP, Google classroom, etc. The FYBSc students were also given sessions on soft skills such as 'Problem Solving skills' and Thinking skills.</p> <p>The sessions carried out were as follows: Session 1: Dr. Nandini Vaz Fernandes: Topics:</p> <ol style="list-style-type: none">1) Effective ways of answering exams2) Soft skills- Thinking Skills and problem-based learning skills- <p>1) Soft Skills: This session was mainly focused to instil soft skills in the students Students were explained the importance of thinking skills inorder to develop the mind to effectively solve problems rationally and logically. Students were taught Logical Thinking skills, Lateral thinking skills and Creative thinking skills which are vital for problem solving. Students were also taught 'Problem Solving Steps'. These skills are very important for students as the department adopts higher order thinking (blooms taxonomy) based T-L-E methods.</p>

Thus students were taught problem solving steps, logical thinking, critical thinking and creative thinking skills. Problem based learning is one of the components for each of their CA, so it is important for students for know how to solve higher order questions.

Session 2 Ms. Tessa Vaz :

Topics:

1. CLAAP ,
2. Examination at the departments.

Ms. Tessa Vaz explained to the students the functions and attributes of moodle platform CLAAP.

Students were made conversant with the usage of CLAA resources, C-Mail, C-Login etc.

Ms. Tessa Vaz, also gave on an overview of the examination pattern of CAs. She explained that the Semester paper includes 30-40% of higher order questions, and that for every assessment we share the rubrics for both theory and practical assessment on CLAAP.

Session 3: Ms. Madhu Balekai

Topics:

- i) Practical pedagogy,
- ii) ii) butterfly garden

i) Practical pedagogy: Department of zoology has a specific way of conducting practicals and assessment too. Ms. Madhu explained the procedures / pedagogies to the students, and what is expected from them.

ii) Butterfly garden: The department of Zoology took an initiative of creating a butterfly garden in the campus, which was inaugurated on 2nd October, 2017. The butterfly garden displays the photographs and names of butterflies present in the campus, recorded over a period of three years by Dr. Nandini Vaz Fernandes. Ms. Madhu explained that It is mandatory for every student of the department to be participating in maintenance of the butterfly garden and help in enhancing it.

Session 4: Ms. Andrea D'Souza

Topics:

- i) Modes of assessments
- ii) Community outreach programme

Ms. Andrea explained that the department gives opportunities to different types of learn to demonstrate their learning. Students were made familiar with the different modes of assessment and rubrics.

She also explained to the students that it is departmental policy to mandate obligatory Community outreach programme for TYBSc students.

Session 5: Ms. Gautami Manakikar

Topics:

- 1) Departmental Activities/ Calender for 2019-20
- 2) Internships

Ms. Gautami Manakikar exhibited the annual plan of activities scheduled for the year 2019-2020. Entire department activity chart along with schedule was shown to students, and they were asked to participate in all the events as they were planned for the holistic development of the students.

Session 6: Mr. Stephen Dias

Topics:

- 1) Newsletters
- 2) Birders Club

Mr. Stephen explained the concept and objective of Newsletters. He specified that it is an opportunity for students to express their editorial skills.

He also discussed the objectives and annual activity plan of 'Chowgule's birders club- This club was initiated in the year 2015. Students were made familiar with the activity planned for the academic year and informed that this club is managed by the SYBSc students as student coordinators.

Photographs





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REPORT
ORIENTATION ON 'RESEARCH METHODOLOGY
FOR THE THIRD YEAR STUDENTS OF LIFE SCIENCE
(Biotechnology, Biochemistry, Botany, & Zoology)

Title:	Orientation on 'Research Methodology'
Date and year:	12 th July 2019
Venue:	Lower Auditorium (2.00 – 3.30 pm)
Resource person/s:	Dr. Nandini Vaz Fernandes Dr. Kanchana R
Organised by	Dr. Nandini Vaz Fernandes- Dean, Faculty of Life Science, Logistic Support by: Executive Assistant, Ms. Bhavana Sawardekar
No. of Participants	101 (92 Students and 09 teachers)
Objective:	To enable students to understand steps of Scientific Research and Method of report writing.
Summary of the proceedings	<p>Dr. Nandini Vaz Fernandes: Discussed various aspects of Research viz. Characteristics of Scientific Research, Types of research, Concepts of research and reasoning, Phases of Scientific research. She explained each concept with examples. She discussed the process which needs to be followed for choosing the research topic and the scientific manner of execution. Other important aspects discussed were importance of literature review, creating clear framework for solving the problem and importance of communicating the findings by presenting or publishing papers.</p> <p>Dr. Kanchana R: Focussed on Components of writing research report, She explained the steps of writing the Project report, its preliminary pages and the flow of text chapters. She also spoke on Referencing styles, Plagiarism and Assessment modes in Chowgule College.</p>

Photographs of Workshop on “RESEARCH METHODOLOGY”



Dr. Nandini Vaz Fernandes and Dr. R. Kanchana, the resource persons enlightening life science students at the Third year project orientation



Report prepared by Ms. Bhavana Sawardekar

Approved by Dr. Nandini Vaz Fernandes

Dated: 7.08.2019

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) - GOGOL, MARGAO-GOA**

INTERDISCIPLINARY ACTIVITY – DBT STAR COLLEGE SCHEME

REPORT OF MANGROVE CONSERVATION AWARENESS

Title:	BIODIVERSITY: MANGROVE CONSERVATION AWARENESS
Date and year:	26 th July 2019
Venue:	Upper Auditorium
Coordinated by	Dr. Nandkumar Sawant Dr. Nandini Vaz Fernandes
Organising Committee	DBT Interdisciplinary activity & Department of Zoology
No. of Participants	101 students and 16 teachers
Objective:	To create awareness on the importance of the mangrove ecosystem and its impact in preventing natural calamities.
Summary of the proceedings	<p>The department of Zoology, along with department of Geography and Botany of Parvatibai Chowgule College, in association with Mangrove Society of India, celebrated ‘World Mangrove day’ on Friday 26th July 2019. The programme was organised under DBT Star College Scheme.</p> <p>The Mangrove day Celebration, was planned to sensitise students of different age groups on various aspects of Mangroves viz. its biodiversity, its importance, consequences of its destruction and need for conservation of mangroves. The activities organised were:</p>

Lecture Series:

Lecture 1: *“Mangroves of Goa in Troubled Water – Mitigation Strategies’* by Dr. Nandkumar Sawant, where he discussed geographical distribution and impact of mangroves in preventing natural calamities viz. cyclones, storms and soil erosions. He also gave a GIS image overview of localisation and density of Mangroves in Goa, and discussed research studies on destruction of Mangrove cover on account of anthropogenic activities.

Lecture2: Dr. Nandini Vaz Fernandes spoke on *‘Life Sans Mangroves’*, where she discussed the uniqueness of mangrove ecosystem highlighting the adaptations seen in the flora and fauna of mangrove ecosystem. She discussed the social, economic and environmental importance of the mangroves, and explained how mangroves act as protectors of coastal belts from natural calamities as well as act as carbon sinks.

Film Show: Three short films were screened for all the participants. Two animation films on ‘Importance of mangroves’ and ‘Role of Mangrove Ecosystem’ were featured. The third film featured the unique fauna of mangrove ecosystem in Sunderbans.

Poster Competition: Poster competition was held for School children of Class VIII, IX and X. The Theme of the competition was ‘Importance of mangroves. 27 students from six schools participated in the poster competition. Every team had to give ‘Slogan’ on mangrove conservation.

First place: Vismay Kalekar and Shruti Nayak (Bhatikar Model High School).

Second place: Shared by Astha Kakalkar and Angelica (Kings School) ; Jahir Khan and Priyanka Modje(Rosary High School)

Third place: Mahima Carvalho and Emelia annet Furtado (Presentation Convent high School)

Painting Competition: Painting competition on the theme 'Mangrove Ecosystem' was held for the students of Chowgule College.

First place: Twinkle Carvalho

Second place: Asmita Chari

Third place: Muskaan Phattygouder

Photography Competition: For the students of Botany, Geography and Zoology, photography competition was organised on the theme 'Mangrove Flora and Fauna'.

Winners:

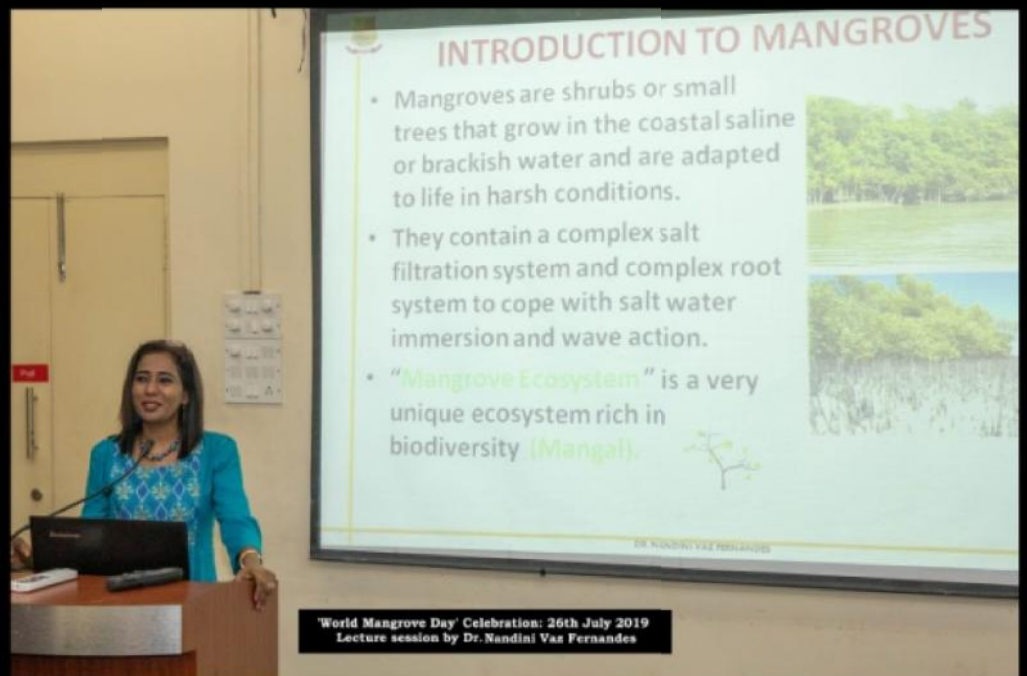
First place: Ms. Ceejal Pinto.

Second place: Ms. Melita Pereira

Third place: Ms. Renvill Luis

Photographs










**REPORT BY
DR.NANDINI VAZ FERNANDES**



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REPORT OF INDUSTRY-ACADEMIA LECTURE SERIES	
Title:	INDUSTRY-ACADEMIA LECTURE SERIES OF CHOWGULE'S BIRDERS CLUB (CBC)
Date and year:	09 th August 2019
Venue:	Upper Auditorium
Resource person:	Dr. N Palanikanth, Mr. AnandJadhav
No. of Participants	120
Objective:	To acquaint students with birding and its importance in the Western Ghats.
Summary of the proceedings	<p>CBC organized Industry-Academia Lecture Series in Collaboration with Goa Forest Department, on 09th August 2019. The event was attended by 157 students and teachers. The speakers of the event were Dr. N Palanikanth, Deputy Conservator of Forest (DCF) and Mr. AnandJadhav, Assistant Conservator of Forest (ACF) of Forest Department, Government of Goa. Dr. N Palanikanth, explained the importance of bird watching in his session 'Birding in Western Ghats', where he explained the association of birds and their habitat, and how adopting bird watching can positively influence a person's mind. He added that watching birds and their habits is a great way of learning to live life of adjustment and harmony. Mr. AnandJadhav, spoke on 'Birds & Bird watching in Goa'. Chief Guest of the function was Principal, Dr. Nandkumar Sawant. He spoke on the need to have such industry-academia interactions which give students opportunity to directly interact with experts on the field of wildlife.</p>
Photographs:	



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Report of “Workshop on ‘Human Rights’”

Title: Workshop on ‘Human Rights’

Date: 9th August 2019 at 2.30PM to 4.30PM

Venue: Lower Auditorium

Resource person/s: Ms Joan Rebello, Ms Deepika D’Souza, Ms Lydia Menon all from (NCHR)

No. of Participants: 38 Students

Objective:

The aim of the workshop was to shed light on the idea of human rights and varied types of human rights violations

Summary of the proceedings

The Department of Sociology in collaboration with National Confederation of Human rights organisation (NCHR) Goa unit organized a workshop on ‘Human Rights’ on 9th August 2019 at 2.30PM to 4.30PM. The aim of the workshop was to shed light on the idea of human rights and varied types of human rights violations. The workshop had three speakers namely Ms Joan Rebello, Ms Deepika D’Souza, Ms Lydia Menon all from (NCHR). The totals of 38 students (FYBA, SYBA, and TYBA) were present for the workshop. The workshop was very fruitful as the speakers used participatory method.

Photographs





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Report on “Workshop Statistical Computing and Data Visualization using R” (Sponsored by DBT Star College Scheme)

Title: Statistical Computing and Data Visualization using R (Sponsored by DBT Star College Scheme)

Date and year: 10th August 2019

Venue: Computer Science Lab I

Resource person/s: Mr. Mahesh Matha

No. of Participants 52 (24 Female, 28 Male)

Objective:

Statistics is very important in different fields. R is a programming language that is used for Statistical Analysis, Data Visualization and reporting. It is freely available under the GNU General Public License.

Summary of the proceedings

R – An Introduction

R basics, Vectors, Lists, Arrays, Data Frames, Factors, Strings

Data Visualization using R

Bar Graphs (Simple, Grouped, Stacked) , Pie Charts, 3D Pie Charts, Histograms, Box Plots and Grouped Box Plots, Mosaic Plots.

Statistical Computing using R

Mean, Median, Mode, Standard Deviation, Linear Regression, Binomial, Poisson and Normal distribution.



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Report on “My Career through Sociology”

Title: My Career through Sociology’

Date and year: on 14th August 2019 at 2.00PM to 3.00PM

Venue: Lower Auditorium

Resource person/s: Three Alumni as speakers, Ms. Edina Roncon, Mr Rahul Prabhudesai and Mr. Joel Dias

No. of Participants :67

Objective: The scope of Sociology in Careers
Understand Live examples in the choice of careers

Summary of the proceedings

The Department of Sociology organised a panel discussion on the theme ‘My Career through Sociology’ on 14th August 2019 at 2.00PM to 3.00PM in lower auditorium. The department invited three Alumni as speakers, Ms. Edina Roncon, Mr Rahul Prabhudesai and Mr. Joel Dias to speak on the said theme. A total of 67 students from FYBA, SYBA and TYBA were present for the panel discussion

Photographs







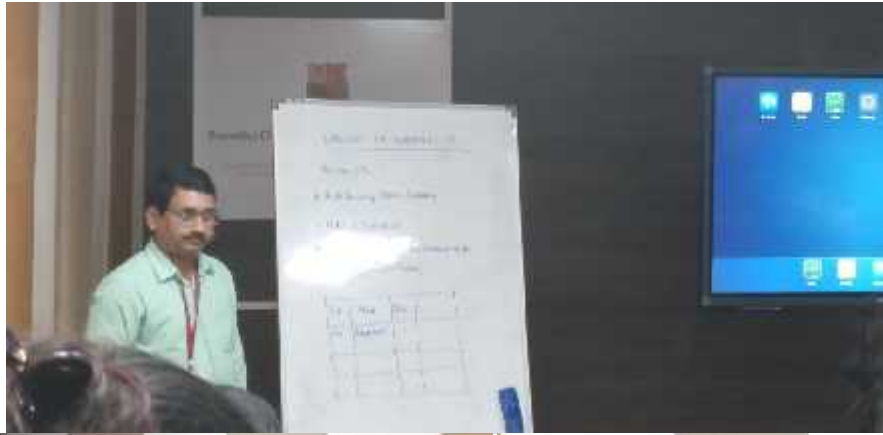
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REPORT OF WORKSHOP ON MAPING OF COURSE OUTCOMES AND PROGRAMME OUTCOMES	
Title:	Mapping of course outcomes.
Date and year:	30 th August 2019
Venue:	AV room of CTL
Resource person/s:	Dr. Nandkumar Sawant
Organizing Committee	IQAC
No. of Participants	23 Faculty members (representatives from all departments).
Objective:	<p><i>The workshop was conducted to train the teachers on the following :</i></p> <ul style="list-style-type: none">- Mapping the course outcomes.- Understanding the association T-L-E processes to attainment of Course outcomes
Summary of the proceedings	<p>The IQAC organized hands-on workshop on “Mapping of course outcomes” for departments on 30th August 2019.</p> <p>Dr. Nandkumar Sawant was the resource person for the same. He explained the procedure devised for mapping of the course outcomes (COs) at the department. Faculty members were given a format to map the COs. Dr. Sawant also explained how the teaching-learning processes can be mapped to the COs and how the assessment modes can be used to check for attainment of COs. He explained how Blooms taxonomy can be integrated to gauge attainment and also conducted hands-on session activity department wise.</p> <p>The Following members presented their mapping structure prepared as an outcome of this workshop. Dr. Hanumant Chopdekar, Dr. Lactina Gonsalves, Dr. Nandini Vaz Fernandes, and Ms. Swati Gadi.</p>

Photographs



Participants of the workshop



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REPORT
WORKSHOP ON 'BUILD YOUR E-PORTFOLIO'
FOR THE SECOND YEAR STUDENTS OF LIFE SCIENCE
(Biotechnology, Biochemistry, Botany, & Zoology)

Title:	Workshop on 'Build your E-Portfolio'
Date and year:	24 th August 2019
Venue:	Lower Auditorium (1.30 – 3.30 pm)
Resource person/s:	Mr. Andrew Barreto
Organised by	Dr. Nandini Vaz Fernandes- Dean, Faculty of Life Science, <i>Assistance & Logistic Support by: Executive Assistant, Ms. Bhavana Sawardekar</i>
No. of Participants	75
Objective:	To enable students to submit their work as 'E-Portfolio' for 'Skill Enhancement courses' as Summative Assessment.
Summary of the proceedings	<p>Dr. Nandini Vaz Fernandes welcomed the life science students and explained the necessity for organizing the said workshop and provided a brief introduction of the resource person. She said that developing Portfolio encourages students to become active participants in understanding their own learning. A total of 75 students from Second Year BSc of Life science departments attended the workshop.</p> <p>Mr. Andrew Barreto, Resource Person explained the purpose and the importance of the E-portfolio to the students. He highlighted on the following:</p> <ol style="list-style-type: none">1. Why is it required?2. How it is useful.3. How to create it.4. What goes in it.5. Where it can be used. <p>He explained the process on creating E-Portfolio and explained that Process Portfolio needs to showcase all the evidences required to prove the learning outcomes in the given time, in addition, it integrates reflection and higher-order cognitive activities. The site recommended was https://sites.google.com. A presentation on the process was shared with the students.</p>

Photographs of Workshop on 'Build your E-Portfolio'



Dr. Nandini Vaz Fernandes welcoming the life science students for the Workshop on 'Build your E-Portfolio'



Mr. Andrew Barreto addressing life science students at the Workshop on 'Build your E-Portfolio'



Report prepared by Ms. Bhavana Sawardekar

Approved by Dr. Nandini Vaz Fernandes

Dated: 27.08.2019



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Report on “Techweek 2019”

Title: TechWeek 2019

Date: 26 August 2019 to 31st August 2019

Venue: Lower Auditorium

Resource Persons: Mr.Chetan Borkar , Co-founder, Dreamlogic Info systems,
Ms. Shruti P ,Software Engineer , from Persistent Systems from Verna Goa.
Mr. Sedrick Pires, Software Developer from Numadic

No. Of Participants: 107 (58 Female, 49- Male)

Objective:

Introduce trending technologies to students which will help them in projects and to get good jobs.

Following topics were covered on the 26th August 2019:

Asynchronous and event drives, Node js common packages, JSON web token (JWT) , Mongo database methods, Registration and login form and linking it to mongo db

27th August –Node js express

Day 2 of the workshop began at 10:00am on 27th August. Mr.Chetan Borkar recommenced with the implementation that was done on 26th and Mr. Depak KJ shared his knowledge on Node express by sharing the stage.Following topics were covered in 2 different sessions:

Recommence node js, Node express ,Basic routing , Middleware functions, Types of middleware, code to create task list

Following topics were covered on 28th August 2019

Difference between framework and library, Framework for building WebApp, Spring features, Spring 5 features, loc and dependency injection, Spring architecture , IoC container

Following topics were covered on 29th August 2019

Spring, Bean scopes and life cycle, Spring configuration with annotation

Following topics were covered on 30^h August 2019

what is react JS, Why use react, Who uses react i.e. Yahoo Facebook Uber Tesla Adobe etc, React building blocks i.e. JSX, BABEL, ECMAScript, Webpack, Components, Create components , Variables, Functions, Components, Program to check number of clicks, Create Props, Functional components

Following topics were covered on 31th August 2019

Recommence React ,Change theme component, Communicate between two components, Refs, Redirect (number of seconds to display that file), Prototypes.

One week session ended with the valedictory function by distributing certificates to the participants.



(Inaugurations ceremony of Techweek 2019)



Mr.ChetanBorkar delivering session on Node JS)

(Students working on Spring Framework)



(Mr.SedrickPires delivering session on React JS)



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Report on “Spring Framework workshop”

Title: Spring Framework

Date: 28/08/2019

Resource Person: Ms. Shruti P. Software Engineer - from Persistent Systems from Verna Goa

Topics Covered: Spring, Bean scopes and life cycle, Spring configuration with annotation

Participants: 50





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Report of “Workshop on Herbal Cosmetology”

Title: Workshop on Herbal Cosmetology

Date: 28/9/2019

No of Participants: 92

Venue: Upper auditorium, Parvatibai Chowgule College

Objectives:

1. To understand the applicative knowledge about Botany in the field of herbal cosmetology.
2. Awareness of natural beauty solutions
3. Understanding the preparation of different herbal products

Resource Persons:

1. .Dr. Sonal Sawant, Practising Ayurvedic doctor, Margao
2. Dr. Rashmila Chindarkar, Practising Ayurvedic doctor, Mapusa.

Detailed deliberations of the event/visit:

The herbal cosmetology workshop was held on 28 th August 2019. The workshop began with an inaugural function at 10:00 am with welcome song by students of Botany Department followed by lighting of the lamp. Dr Sonal Sawant was invited as speaker and the chief guest for the inauguration. During the inaugural function, Department Incharge Mrs Amisha Pednekar gave welcome address she said, that this is the first herbal cosmetology workshop which is organised in the botany department. Principal Dr Nandakumar Sawant also appreciated the theme of the workshop and said that we should be aware about the herbal remedies instead of opting for chemical cosmetics very frequently. The chief guest and herbal cosmetology expert Dr.Sonal Sawant said that it was a big platform for her to share the knowledge. She was thankful to the department for inviting her as a speaker. Dr. Nandini Vaz Fernandes admired the staff for organizing innovative workshops .

Session 1.

This session was conducted in the morning between 11:00 am to 1:00 pm. The speaker for this session was Dr. Sonal Sawant. She gave a very informative lecture on the topic "Hair and its types, Ayurvedic management of hairfall, dandruff and premature graying" she explained the structure of hair, pigments and proteins of hair, types of hair (straight ,curly , wavy etc). diet and nutrition required to maintain hair fall and dandruff, common causes for hairfall , dandruff and premature greying. She also explained how hair reacts to different chemical shampoos and harsh conditioner. The lecture was followed by demonstration of hair oils, shampoos and hair packs. Dr Sawant introduced different herbs like bringaraj, amla, ashwagandha etc which are effective for different hair related problems. Audience were happy to see and learn different herbal formulations. Most of them interacted well with speaker after the session and asked many questions . Session 1 was followed by lunch at 1:15 pm to 1:55 pm.

Session 2

Session 2 was conducted between 2 pm to 4pm. The speaker for this session was an Ayurvedic expert Dr. Rashmila Chindarkar. The topic for her lecture was "Concept of Skin, skin types and metabolism. Ayurvedic guidelines about diet and nutrition for healthy skin" Dr Chindarkar explained about the the layers of the skin , types of skin like kapha , pitta and vata. She enlightened the participants on how to maintain the skin and which products they can choose depending on the type of skin. She also introduced different types of herbal powders like chandan, multani mitti ,ashwagandha etc and its components and the way they react to the skin types. Lastly she explained about diet and nutrition which is necessary to maintain skin internally. The lecture was followed by demonstration where Dr. Rashmilas conducted small activity with the help of a simple questionnaire. This activity helped the audience to identify their skin type very easily. She also demonstrated the procedure of soap making (neem and tulsi). Further, she explained different types of face packs for dry, oily skins and its formulations, Dr Chindarkar also demonstrated ancient method of making pure form of kajal. The workshop officially ended with a valedictory program with the distribution of certificates.



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Report on “ReactJs Workshop”

Title: React Js

Resource Person: Mr. Sedrick Pires Software Developer from Numadic, Panaji

Date: 30/08/2019

Topics Covered: what is react JS, Why use react, Who uses react i.e. Yahoo Facebook Uber Tesla Adobe etc, React building blocks i.e. JSX, BABEL, ECMAScript, Webpack, Components, Create components, Variables, Functions, Components, Program to check number of clicks, Create Props, Functional components.



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Report on “Workshop on Mushroom Cultivation”

Title: Workshop on Mushroom Cultivation

Date and year: 31st August 2019

Venue: Biotechnology lab, Parvatibai Chowgule College

Resource person/s: Gauri Prabhudessai, Zonal agriculture officer, Sanguem

Organising Committee Department of Biotechnology, Faculty Incharge: Hashma Mujawar

No. of Participants: 60

Objective:

The main objective was to make the students aware about the health and medicinal benefits of mushrooms, the global mushroom market, total cultivable and edible mushrooms and success stories of some of mushroom cultivators in Goa and in India.

Summary of the proceedings

On 31st August 2019, the department of biotechnology organized a hands-on training workshop on Mushroom cultivation, as part of the General Elective Course (GEC). The speaker was Gauri Prabhudessai, Zonal agriculture officer, Sanguem. The main objective was to make the students aware about the health and medicinal benefits of mushrooms, the global mushroom market, total cultivable and edible mushrooms and success stories of some of mushroom cultivators in Goa and in India. Secondly, to indulge the students in mushroom cultivation activities by providing a hands-on training experience and act as a prerequisite for the potential mushroom market in Goa.



RESEARCH COMMITTEE (PCCAS-RCEA) & IQAC

REPORT ON WORKSHOP ON RESEARCH DATA MANAGEMENT	
Title:	Research Data Management' for facilitating H Index calculation (Bibliometrics)
Date and year:	14 th November 2019
Venue:	Auditorium
Resource person/s:	Dr. Nandini Vaz Fernandes
Organizing Committee	Research, Consultancy and Extension Activity Committee (PCCAS-RCEA) and Internal Quality Assurance Cell (PCCAS-IQAC). Dr. Nandini Vaz Fernandes and Dr. Ashish Desai
No. of Participants	17 Faculty members.
Objective:	<i>The Hands-on workshop was conducted to facilitate faculty members to :</i> <ul style="list-style-type: none">- Connect Achievements and Contributions on Global Registry” – Register with ORCID and PUBLON.- Calculate H index of author.
Summary of the proceedings	<p>The Research Committee and IQAC organized Hands-on Workshop on "Metrics as a Measure of Scholarly Articles " Research Data Management' for facilitating H Index calculation (Bibliometrics) on 14th December, 2019 in the Auditorium.</p> <p>As a prerequisite for the workshop, participants were asked to organize their publication list in APA format and bring it for the workshop on their respective laptops. Participants were also asked to get information related to their publications viz. research journal papers, articles, books, chapters, dramas or any other work created by them.</p> <p>Dr. Nandini Vaz Fernandes, gave a introductory session on Research data management, followed by demonstration of how to upload data on ORCID and PUBLON. All members of Research committee helped the participants to register for ORCID and PUBLON.</p>

The participants calculated their H index and were also enlightened on its relevance.

The session concluded with vote of thanks proposed by Dr. Ashish Dessai, co-convenor of PCCAS-RCEA.

Photographs



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WORKSHOP – “Research Data Management’ for facilitating H Index calculation (Bibliometrics)”

14th November 2019

BY

DR. NANDINI VAZ FERNANDES

PARVATIBAI CHOWGULE COLLEGE
MARGAO GOA

EMAIL:nvf001@chowgules.ac.in



WHAT YOU NEED TO DO:

1) Register yourself with ‘ORCID’.



2) Register yourself with RESEARCHER-ID



Dr. Nandini Vaz Fernandes, Parvatibai Chowgule College. 25-10-2017

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Report of “Lecture on Framing Technology and Society: From Colonial to Digital India”

Title: ‘Framing ‘Technology and Society’: From Colonial to Digital India’

Date: 23 September 2019

Summary: The Department of Sociology in collaboration with Directorate of Visiting Research Professors Programme, D. D Kosambi chair professor in interdisciplinary studies, Goa University organised a guest lecture on ‘Framing ‘Technology and Society’: From Colonial to Digital India’ by Professor Dhurv Raina (Professor at JNU, New Delhi and visiting Professor at university of Cambridge) on 23 September 2019 at 10.30AM to 11.30 in lower auditorium a total of 105 people consisting of Principal Dr.N.N. Sawant, Dean of Social Sciences, Dr.Debashish Majumdar, faculty and students attended the same .

Guest lecture on ‘Framing ‘Technology and Society’: From Colonial to Digital India’ by Professor Dhurv Raina





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REPORT OF CERTIFICATE COURSE ON 'WILDLIFE MONITORING TECHNIQUES'	
Title:	WILDLIFE MONITORING TECHNIQUES
Date and year:	05 TH -12 TH December 2019
Venue:	Upper Auditorium
Resource person:	Dr. Nandini Vaz Fernandes, Mr. Parag Ranganekar, Mr. Paresh Porob, Mr. Anand Jadhav, Mr. Omkar Dharwadkar, Mr. Mandar Naik, Mr. Bipin Phaldessai, Mr. Stephen Dias
No. of Participants	32
Objective:	The objective of the course was to introduce and train students in wildlife biology with special emphasis on monitoring of flora and fauna.
Summary of the proceedings	<p>The Department of Zoology of Parvatibai Chowgule College, in association with Directorate of Higher Education, Govt. of Goa conducted a certificate course in "Wildlife Monitoring Techniques" from 05th December to 12th December 2019. The Chief guest of the function was Shri. Subhash Chandra IFS-PCCF, Goa forest Department and Guest of honour was Shri. Vipul Ghare, Asst. Director (Academics), Directorate of Higher Education (DHE)-Government of Goa. 32 students from four colleges attended the course. The resource persons were eminent officers from Goa Forest department and Goa Bird Conservation Network and Academicians with extensive field based research. The objective of the course was to introduce and train students in wildlife biology with special emphasis on monitoring of flora and fauna. The certificate course was designed to maximize hands on, field-based activities and incorporated interactive teaching-learning methodologies i.e. Cooperative Learning Strategies (CLS) and Problem solving. The course was coordinated by Mr. Stephen Dias and Dr. Nandini Vaz Fernandes and was funded by DHE, Govt. of Goa.</p>
Photographs:	





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Report on “Training Programme on ‘GPS – Basics & Field Applications’”

Title:	Training Programme on ‘GPS – Basics & Field Applications’
Date and year:	12 July 2019
Venue:	Department of Geography, and college campus
Objective:	To train staff and student to <ol style="list-style-type: none">1. Handheld Navigational GPS for field survey in geography2. Installation and use of Differential GPS for surveying in Geography3. Collect data using Mobile Based GPS, Navigational GPS and Differential GPS4. sharing and utilization of spatial data with Geographical Information System (GIS) programs and Google Earth5. Transform data from GPS coordinates to KML and KMZ and use it in GIS system
No. of Beneficiaries	Faculty: 4 Students: 35 Staff: 1 Community: 0
Sequence of events	8.30am to 9.00am – Registration 09.00 to 10.30: Presentation and discussion of GPS technology by Dr. Sanjay Gaikwad. 10.30am to 11.00am Making teams for field work 11.00 am to 12.00pm demonstration of Handheld Hand held GPS devices by Dr. Sanjay Gaikwad 12.30 pm to 1.00pm preparation of fieldwork proceed to open ground in college campus 1.00pm to 1.30 pm Installation of DGPS and acquisition of Coordinates 1.30 pm to 2.00pm Break 2.00 pm to 4.00 pm Data transformation and use in GIS
Brief of experts	Dr. Sanjay D. Gaikwad Assistant Professor Department of Geography and Research Center Parvatibai Chowgule College of Arts and Science (Autonomous) Margao GOA

Summary of the proceedings

A Training Programme on 'GPS – Basics & Field Applications' was organized for the students of Skill Enhancement Course on Participatory Rapid Appraisal Techniques and SYBSc Geography students keeping the above objectives in mind. In total 35 students 4 faculty members and one staff have successfully completed the training.

Photographs



Participating faculty and staff observing DGP During Field Session.

Group of Student Participants Using Handheld GPS During Field Work.





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Report of “Workshop on Kitchen Gardening”

Title: Workshop on ‘Kitchen Gardening’

Date: 11/12/2019 to 12/12/2019

No of Participants: 74

Venue: Upper Auditorium, Parvatibai Chowgule College

Objectives:

1. To motivate and train passionate gardeners and young minds about kitchen gardening.
2. To create awareness about organically grown kitchen gardens.
3. To create awareness about new concepts like urban farming.

Resource Persons:

1. Dr. Thangam, Principal Scientist (Vegetable Science), ICAR
2. Ms. Maneesha S.R., Scientist (Fruit Science), ICAR
3. Mr. Viplav Prabhugaonkar, Entrepreneur, GHK Sprouting Dreams
4. Ms. Bhagyashree Shaikh, Co-founder of EASE ECO Goa
5. Ms. Richa Dessai, Block Technology Manager, Department of Agriculture, Government of Goa

Detailed deliberations of the event/visit:

The Department of Botany, Parvatibai Chowgule College, organised a two days workshop on Kitchen Gardening on the 11th and 12th of December 2019.

On day 1, the inaugural function started with the lighting of the lamp and an invocation song. The Chief Guest for the workshop was Dr. Thangam, Principal Scientist, ICAR. Distinguished Members on the dais were Dr. Thangam, Principal Scientist, ICAR, Dr. Nandkumar Sawant, Principal, Parvatibai Chowgule College, Dr. Nandini Vaz Fernandes, Dean of Life Sciences and DBT star college coordinator and Ms. Amisha Pednekar, Department incharge.

Session 1 was delivered by Dr. Thangam on “Vegetable Cultivation”. Different vegetables grown in Goa and their effective methods of cultivation were discussed.

Session 2 was a lecture on “Urban Farming: A Holistic Approach” by Maneesha S.R., Scientist, ICAR. The importance of urban farming, its types, benefits, components and challenges were highlighted.

Session 3 was post lunch, a light hearted session by Mr. Viplav Prabhugaonkar, an entrepreneur, on “Ideal pot mix using home compost and significance of Kitchen Gardening”. Mr. Prabhugaonkar demonstrated how to make the right potting mixture and also answered to queries from the audience.

On day 2, session 4 was conducted by Ms. Bhagyashree Shaikh, a participant and Co-founder of EASE ECO Goa who delivered a talk on the significance of organic farming and integrated pest management. She also urged the audience to grow their own fruits and vegetables. And the last session, session 5 was based on “Home Gardening” by Ms. Richa Dessai, Block Technology Manager, Department of Agriculture, Government of Goa. She emphasised on the consumption of local fruits and vegetables. A detailed explanation was given on how to prepare the land, cultivation of kitchen gardening plants and after care. Different schemes and subsidies from the agriculture department were outlined and the importance of Krishi card was emphasized. The members on the dais for the Valedictory function were Ms. Richa Dessai, Block Technology Manager, Department of Agriculture, Government of Goa, Mr. Harish Nadkarni, Vice Principal, Parvatibai Chowgule College, and Ms. Amisha Pednekar, Department incharge. A feedback of the workshop was taken from the participants and the certificates were distributed by Ms. Richa Dessai and Mr. Harish Nadkarni.



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Report of Talk on “How to Learn & Remember Periodic Table”

Title: Talk on “How to Learn & Remember Periodic Table”

Date and year: 13th December 2019

Venue: Parvatibai Chowgule College of Arts and Science, Autonomous Upper auditorium

Resource person/s: Prof S. P. Kamat Organising Committee Ms. Padmini C. Raiker

No. of Participants

104 (UG students: 97 & staff members: 07)

Objective:

1. The periodic table is important because it is organized to provide a great deal of information about elements and how they relate to one another in one easy-to-use reference. The table can be used to predict the properties of elements, even those that have not yet been discovered.
2. So in this regard a talk was organized on the said topic so that the students learn to remember the periodic table.

Summary and proceedings

The speaker enlightened the students on the importance of periodic table in chemistry i.e. the most important unifying principle in describing the chemistry of the elements is that the systematic increase in atomic number and the orderly filling of atomic orbitals lead to periodic trends in atomic properties. The speaker also spoke about the recent advancements in chemistry e.g. discovery of new allotrope of carbon (polyynes).





RESEARCH COMMITTEE (PCCAS-RCEA) & IQAC

REPORT OF SEMINAR ON "METRICS AS A MEASURE OF SCHOLARLY ARTICLES"	
Title:	"Metrics as a Measure of Scholarly Articles"
Date and year:	14 th December 2019
Venue:	Auditorium
Resource person/s:	Dr. V GOPAKUMAR
Organizing Committee	Research, Consultancy and Extension Activity Committee (PCCAS-RCEA) and Internal Quality Assurance Cell (PCCAS-IQAC). Dr. Nandini Vaz Fernandes and Dr. Ashish Desai
No. of Participants	21 Faculty members
Objective:	<i>The Seminar was conducted to: :</i> <ul style="list-style-type: none">- To facilitate faculty members to compute H Index (Bibliometrics).- Facilitate Quality publications.
Summary of the proceedings	<p>The Research Committee and IQAC organized Seminar on "Metrics as a Measure of Scholarly Articles" on 14th December, 2019 in the Auditorium. The resource person was Dr. V Gopakumar, Librarian of Goa University, who discussed the method of calculating H index.</p> <p>The inaugural session was presided by Principal, Dr. Nandkumar Sawant, who welcomed the resource person and briefed the participants on the Importance of the seminar.</p> <p>The session on bibliometrics included calculation of H index from Web of Science and Scopus and process of checking citations and method of calculating 'Institutional H Index', where he demonstrated the process of</p>

calculation of data of 'Goa University'.

He also stressed on the need for having 'Quality publications' and stated that it is mandatory for faculty members to give institutional affiliation for research publications. He demonstrated the use of 'Mendeley' for writing quality research papers with easy sourcing of reference material pertaining to area of research and finding appropriate journal for publishing ones research work.

The session concluded with vote of thanks proposed by Dr. Ashish Dessai, co-convenor of PCCAS-RCEA.

Photographs



Principal Dr. Nandkumar Sawant welcoming the resource person Dr. Gopakumar



Resource Person Dr. Gopakumar for Seminar on "Metrics as a Measure of Scholarly Articles" on 14th December, 2019.



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REPORT OF SEMINAR ON INTELLECTUAL PROPERTY RIGHTS (IPR): IT'S RELEVANCE IN ACADEMICS	
Title:	Intellectual Property Rights (IPR): It's Relevance In Academics
Date and year:	14 th December 2019
Venue:	AV room of CTL
Resource person/s:	Dr. Nandini Vaz Fernandes
Organizing Committee	Research, Consultancy and Extension Activity Committee (PCCAS-RCEA) and Internal Quality Assurance Cell (PCCAS-IQAC).
No. of Participants	22 Faculty members (representatives from all departments).
Objective:	<p><i>The Seminar was conducted to create awareness on :</i></p> <ul style="list-style-type: none">- Need and importance of Intellectual Property Rights (IPR) among the faculty and students.- Initiatives by Chowgule College to promotion awareness of IPR.
Summary of the proceedings	<p>The Research Committee and IQAC organised Seminar on " IPR: It's Relevance in Academics" on 14th December, 2019 in the AV Room of Centre for Teaching learning. A group of 22 teachers were selected to represent each department. The objective of the seminar was to create awareness on need and importance of Intellectual Property Rights (IPR) and IPR promotion at Chowgule College. The session was conducted by Dr. Nandini Vaz Fernandes, who covered various aspects of IPR viz patents, trademarks, industrial designs, Geographical indications, copyrights and related matters and discussed its relevance in academics/education institution.</p> <p>Following topics were discussed during the seminar viz. what is IPR, types of IPR and relevance of IPR in academics. Synopsis of the discussion is given below:</p> <p>There are two main types of intellectual property rights (IPR).</p>

1. Copyrights and related rights
2. Industrial property

COPYRIGHT AND RELATED RIGHTS: Rights related to:

- Performing artists in their performances,
- Producers of phonograms in their recordings
- Broadcasters in their radio and television programs.
- Includes literary and artistic works such as :Novels, Poems And Plays, Films, Musical Works, Artistic Works Such As Drawings, Paintings, Photographs And Sculptures, Architectural designs.

INDUSTRIAL PROPERTY:

- Inventions (Patents) – process or product (20 yrs)
- Trademarks – symbols/signs /style of packaging.
- Industrial Designs
- Geographic Indications Of Source

ADVANTAGES OF INTELLECTUAL PROPERTY RIGHTS

- If you create a product, publish a book, or find a new drug, intellectual property rights ensure that you benefit from your work.
- These rights protect your creation or work from unfair use by others.
- Encourages individuals to distribute and share information and data instead of keeping it confidential.
- Provides legal defence and offers the creators the incentive of their work.

IPRs IN ACADEMICS: Faculty or personnel, students, and staff of the academic institution.

- 1) Copyright – by Journal for Research publication.
- 2) Scholarly and academic work:
- 3) Patent Rights
- 4) Learning Resources

The session also included discussion on revenue sharing, infringement of IPR, and IPR Policy of Chowgule College. College has formulated IPR policy to facilitate filing of applications for patents and other IPR, to enable faculty or personnel, students, and staff of the academic institution to get due credit for their works through IPRs and to recommend financial assistance for filing IPR, by the faculty and students of the Institute as per the norms of the institution.

The session concluded with vote of thanks proposed by Dr. Ashish Dessai, co-convenor of PCCAS-RCEA.

Photographs



Participants of the Seminar on "IPR: Its Relevance in Academics" on 14th December, 2019



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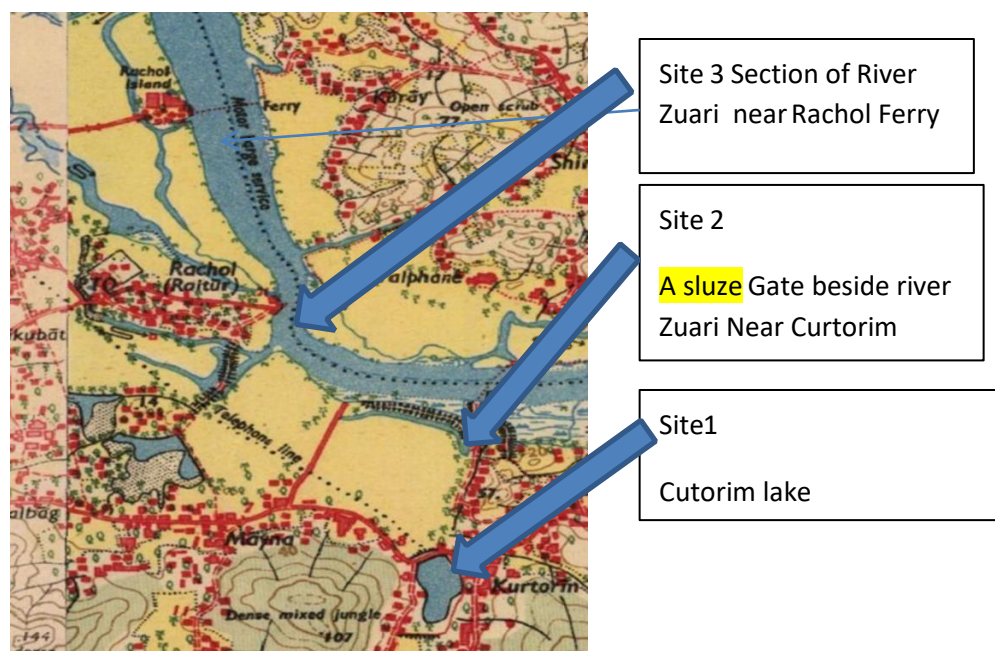
Report on “Field-based Training - On Site Use of Current Meter, And Field Testers to Test Water”

Title:	Field-based Training - On Site Use of Current Meter, And Field Testers to Test Water
Date and year:	16 th December 2019.
Venue:	Department of Geography, section of River Zuari, at Rachol and section near Curtorim, Goa
Objective:	Objective of the field based training – on site Use of Current meter and Various field tester aims to enable the participants to <ol style="list-style-type: none">1. calibrate and on site use of testers to test of pH, EC, TDS, Salinity2. calibrate and use soil water testing kit on field3. use current meter to gauge the velocity of water4. measure the quantum of flow of water from manmade channel and natural streams5. use deep water sampler to collect water samples from lakes and rivers6. collection of water and soil samples and preparation field book for the same7. analysis of field samples in the lab, and derive inferences
No. of Beneficiaries	Faculty:8 Students:15 Staff:2 Community: 0
Sequence of events	9.00 am to 9.30am Registration 9.30 to 10.30am Briefing about the techniques 10.30 to 11.00am Travel to the local site 11.00am to 1.30 pm On site testing pH, EC, TDS, DO, Salinity, Turbidity, Use of current meter (1.30 to 3.00 Break) 3.00 t4.30pm Lab session Calculation of flow of water based on data collected from field work 4.30 pm to 5.00pm Analysis and interpretation of result discussion and closing ceremony

Brief of experts Dr. Sanjay D. Gaikwad
Assistant Professor
Department of Geography and Research Center
Parvatibai Chowgule College of Arts and Science (Autonomous)
Margao GOA

Summary of the proceedings

1. After registration all participants were acquainted with the functionality of the field testing equipment's and the safety measures related to the handling the device. The objective of the field visit was made clear to the participants and demonstrated the way to prepare the field book, take locational data, site data and take the records from field devices. All participants were taken to the site 1 the sluice gate near Curtorim beside river Zuari & site 2 Curtorim lake of Curtorim village.



2. At Site one and two participants were demonstrated and given chance to take readings using current meter. Besides of current meter they and also given an opportunity to measure the length, breadth and depth of the segment of the water channel, take water samples from lake Courtorim. Same time they were also trained to utilize the field testers to test the pH, Ec, TDS, Salinity, etc. on site. Participants also used soil water testing kit. Along with the sample they also taken the location (spatial) data.
3. After the hands on of shallow water regime participants were taken to the Rachol ferry to collect deep water samples from river Zuari. Several sample are collected from margins of the river where as two samples are taken from the center of the river.
4. Last session of data analysis was conducted in the labs of department of geography. Participants were trained to calculated the quantum of flow of the water form first and second site. All the water samples were tested again using lab instruments for pH, EC, TDS, Turbidity, salinity etc. Lastly with the summing up session closed the training programme.



Participants (Staff and Student) Travelling by Ferry Boat at Rachol To collect water samples and use the current meter



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Report of “Workshop on Hands on Training in Water and Soil Testing - Water and Soil Testing Lab Techniques” (under DBT star college scheme)

Title: Workshop on “Hands on Training in Water and Soil Testing - Water and Soil Testing Lab Techniques” (under DBT star college scheme)

Date and year: 17/12/2019

Venue: Department of Geography and Department of Chemistry

Objective: Water and Soil Testing Lab Techniques for SY& TYBSc Students and Teaching and Non-teaching Staff of Geography aim to enable participants to independently perform various test of water and soil for study and research. Accordingly they were given

1. Basic concept and application of scientific approach behind pH, EC, TDS, Salinity, Turbidity etc.
2. Importance and way of calibrating various instruments in lab
3. Techniques to take reading in lab and prepare the observation table
4. Method to process data and present in graphical form
5. Trained to use of specialized tool like colorimeter and flame photometer

No. of Beneficiaries

Faculty: 6

Students: 20

Staff: 2

Community: 0

Sequence of events

9.00 am to 9.30am Registration

9.30 to 11.30am Basics of scientific Testing

14.44 am to 1.00pm Calibration techniques

(1.00 to 2.00 pm Break)

3.00 to 5.30pm Lab session for pH, EC, TDS, salinity, TDS, Turbidity,

Readings from Colorimeter, and hands on of flame photo meter

Brief of experts

DR. G K Naik

Department of Chemistry

Parvatibai Chowgule College of Arts and Science (Autonomous), Margao, Goa

Dr. Sanjay D. Gaikwad

Event Coordinator / Departmental coordinator

Department of Geography and Research Center

Summary of the proceedings

The training program started with the introduction to the resource person. Dr. A.C. Bicholkar, Head of the Department introduced the resource person Dr. G K Naik.

The first session was focusing on the clarification of the basic concept of the various tests that are expected in lab on water and soil to derive its pH, EC, TDS, Salinity. It also focused on the precautions expected while handling chemicals, reagents and indicators. Etiquettes of handling the glass ware and lab maintenance.

Second session dealt with the calibration of digital instrument, choosing appropriate measures, and preparation of samples. Session last commenced in chemistry lab where participants were demonstrated the use of colorimeter and flame photometer. Participants were given an opportunity to handle same instruments on their own. They took reading of P and K of water and compared with standard solution using flame photometer. 200 NTU & 400NTU solution were used to compare water samples. Participants were also demonstrated how to represent the analysis from these two instruments. Lastly Mr. Ashish proposed vote of tanks.



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Teaching Learning Centre and IQAC

REPORT OF WORKSHOP

Title:	“Academic Writing and Integrity”
Date and year:	Tuesday 07th January 2020.
Venue:	Conference Room
Resource person/s:	1) Dr. Nandini Vaz Fernandes 2) Ms. Anila.K.P.
Organising Committee	Writing Centre and IQAC
No. of Participants	12
Objective:	The main objective of the workshop was to make the new teachers aware of the significance of practicing ethical values in academic writing and also, to brief up on assignment writing with its various essential components and rubrics.
Summary of the proceedings	<p>Academic Writing and Integrity aims at bringing moral code of academia. It involves using in an ethical, honest and responsible manner. Integrity embodies the fundamental core values of honesty, trust and responsibility which is an essential quality to develop among the teachers and spread it among the students.</p> <p>The workshop began at 2.30 pm in the Conference room by Dr. Nandini Vaz Fernandes. The workshop began with the introduction of each faculty. The workshop was divided into two sessions. The first session was conducted by Dr.NandiniVaz Fernandes. She spoke on the importance of Academic writing with special reference to Assignment writing. The various components of Assignment were discussed briefly and also the rubrics of mark distribution was shown. Further, the format of the Assignment followed by college was discussed and displayed. Also, she spoke on the plagiarism policy and its seriousness in Academic Writing. This session ended by 3.30 pm.</p> <p>The second session began at 3.30 pm by Ms. Anila K.P. She spoke on the Academic Integrity with special reference to plagiarism and Referencing. Here the teachers were briefly introduced to Plagiarism and how one can avoid it. She also highlighted the importance of referencing/citation of the resources and gave a demonstration on how to do citation by two methods in APA style. The following session concluded at 4.30 pm.</p> <p>The workshop on “Academic Writing and Integrity” was quite effective It took full consideration of the faculties need and develop their understanding on Assignment Writing and its various components. It also helped the faculties to know more about plagiarism, its dangers and how one can avoid it by incorporating various techniques. Faculties were familiarised with the APA style of referencing/bibliography and also, the Plagiarism policy.</p>

Photographs

Session 1- Academic Writing



Session 2- Academic Integrity





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ATTENDANCE SHEET

The undersigned faculty attended a workshop on Academic Writing and Integrity on Tuesday, 7th January, 2020 at 2:30 p.m. in the conference room.

Sr. No.	Name of the faculty	Signature
1	Diksha Prabhakar Khogyeunkar	
2	Pearl I. Oliveira	
3	Akbarul Shaikh	
4	Anjali A. Naik	
5	Trupti Fat Dessai	
6	Jocelyn Makasale	
7	HASHMIA MUSTAFA	
8	D. Stalauri Mascumbas	
9	Priya Kumar	
10	Vrushab S. Mhapsekar	
11	Clementine Vanessa Antao	
12	Ashweta Grand fordekar	
13	Nandini V.F	
14	Anita K.P.	
15		
16		
17		



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Report on “Training Programme on Developing soft skills, resume writing and fundamentals of facing an interview’ by Mr. Roshan Nisar, CEO of The Leader”

Title: Training Programme on 'Developing soft skills, resume writing and fundamentals of facing an interview' by Mr. Roshan Nisar, CEO of 'The Leader'

Date: 9/1/2020

No of Participants: 16

Summary: A Three-Day training programme was organized from 9th to 11th January, 2020 by Mr. Roshan Nisar COE of 'The Leader'. The programme aimed at developing soft skills, resume writing and fundamentals of facing an interview. 16 undergraduate students participated in the programme.



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Report on “Basic Training in GIS”

Title: Basic Training in GIS

Date and year: 10th & 11th January 2020

Venue: Department of Geography

Objective: The raining focuses on

1. Introduction to basic concept and applications of GIS
2. Introduction to open source GIS software
3. Hands on training in Quantum GIS software
4. Introduction to basics of ARC GIS
5. Tools and functionality of ARC GIS
6. Basics of Map layout and map preparation sing open source and proprietary software.
7. Introduction to application of GIS

No. of Faculty:4

Beneficiaries Students:44

Staff:0

Community:0

Sequence of events /Resource person/s:

Day One	8.30am to 9.00am: Registration
10 th Jan. 2020	9.00am to 11.00am:Basic concepts, applications and introduction to Open source GIS Software : Dr. K R. Badigar
	11.15 am to 1.00 pm : Demonstration of Quantum GIS : Dr. K. R. Badigar

2.00 pm to 5.00pm hands on of Quantum GIS – : Mr. Deepak Kumbhar

Day Two
11th Jan.
2020

9.00am to 12.30pm : Introduction to Basic Arc GIS : A proprietary software and hands on, Arc GIS tools function and application:
Ms. Ashlesha Saxena

1.30pm to 4.30pm : Hands on on Arc GIS tolls and function and application : Mr. Venkatesh Prabhu Gaonkar

4.30 to 5.00pm validictory

Brief of experts

Dr. K. R. Badiger,
Associate Professor,
Government College
Sanquelim, Goa

Ms. Ashlesha Saxena,
Assistant Professor,
Department of Geography, Parvatibai
Chowgule College of Arts and Science
Margao Goa

Mr. Deepak Kumbhar,
Assistant Professor,
Department of Geography,
Parvatibai Chowgule
College of Arts and Science
Margao Goa

Mr. Venkatesh Prabhu Gaonkar
Assistant Professor,
Department of Geography, Parvatibai
Chowgule College of Arts and Science
Margao Goa

Summary of the proceedings

Day one

Session first led by Dr. K. R. Badigar, discussed the fundamental concept of spatial and attributes data, projections and its applications in GIS, map symbols and map layout from the cartographic point of view. He demonstrated open source software Quantum GIS.

Second session he gave in details of how to import map base in Q GIS and start with digitization and prepare the soft copy map. He further explored tools that one need to use while attaching the attribute data with the features of map. He used as case of Goa Population data to represent it using various cartographic techniques through QGIS. Finally he showed how to take map print with good layout.

Third session conducted by Mr Deepak Kumbhar. He continued with the further application of QGIS taking different data sets and tools. He also trained participants to remove errors of data generated in QGIS.

Day Two

Session fourth conducted by Ms.Ashlesha Saxena. She introduced Arc GIS software. Demonstrated various tools and features of ArcGIS. Digitization, map layout, data generation attachment of data and linking with attributes was focus of the session. Layer to KML transformation was the best part of the session to share data.

Session fifth conducted by Mr. Venkatesh Prabhu Gaonkar, he also used ArcGIS to train participants. He used tools related to spatial and attributes data generation and handling and interpolation.

Lastly the Staff and student expressed their experiences.



Dr. K. R. Badiger (Resource Person) Associate Professor, Govt. College, Sanquelim, Goa, delivering lecture session during the Basic Training in GIS



Dr. K. R. Badiger (Resource Person) Associate Professor, Govt. College, Sanquelim, Goa, delivering lecture session during the Basic Training in GIS

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
GOGOL, MARGAO-GOA**

**DBT STAR COLLEGE SCHEME INTERDISCIPLINARY ACTIVITY
BY
INNOVATION AND INCUBATION CELL COMMITTEE
ACADEMIC YEAR 2019-2020**

Activity:	Talk on “Product Development Phases – Story Telling-Innovators in Campus”
Date and year:	10 th January 2020
Venue:	Upper Auditorium
Objective:	Promoting Entrepreneurship in the Campus
No. of Beneficiaries	Faculty: 04 Students: 155
Sequence of events /Resource person/s:	Mr.Vasant Hede
Brief of experts	Entrepreneur
Summary of the proceedings	<p>Innovation and incubation Cell of Parvatibai Chowgule College of Arts & Science under Star DBT Scheme had organized a motivational talk, “Product Development Phases – Story Telling-Innovators in Campus”, in the Upper Auditorium on 10th January 2020 from 10.30am to 12.30pm.</p> <p>The distinguished speaker for this event was Mr.Vasant Hede. Mr. Vasant Hede spoke about his journey as an entrepreneur and how he came around with starting his own start up. Mr Vasant was an Engineering student and did well in his career. He worked for Infosys and went on to study Masters in Business Administration in the United Kingdom.</p>

After a setback he came back to Goa and worked in Parvatibai Chowgule College as Placement and Marketing Officer.

While Mr Vasant was pursuing his career as an engineer he developed an interest in cooking food. Back then as a necessity now became a choice of career. As he travelled to Europe his love for various food cuisines only increased.

In Goa while he was working, he pursued his interest in cooking and baking. His wife Mrs. Vatsala supported him immensely in this task. They shared a love for food and hence they thought of sharing their joy with people with their food.

They own a food truck which is operational on three days of the week in North Goa and they run a small cafe on the campus of Parvatibai Chowgule College of Arts and Science

Mr Vasant inspired the students to pursue their dream. He gave a message “to feel good about your own self and work towards your goals and nobody will be able to ever demean you”.

Photographs



**REPORT BY
SHRI. V. PRABHAKARAN**



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Report on “Intellectual Property Rights: Its Relevance in Academics”

Title: Talk on “Intellectual Property Rights: Its Relevance in Academics”

Date and year: 16/01/2020

Venue: D-302

Resource person/s: Dr. Lactina R Gonsalves

Organising Committee: Research, Consultancy and Extension Activity Committee (RCEA)

No. of Participants 55 (S.Y.BSc Students)

Objective:

To create awareness on the Need and Importance of Intellectual Property rights among faculty and students and its relevance in academics.

Summary of the proceedings

The Talk on “Intellectual Property Rights: Its Relevance in Academics” was conducted for S.Y.BSc students of Chemistry so as to bring an awareness on the need and importance of intellectual property rights in today’s society irrespective of their educational background. The talk focused on explaining what is IPR, types of IPR, its benefits and how it is relevant to chemistry and academics. The students were also informed about how the College promotes IPR through its policy.





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Report of “Workshop on IPR: Its Relevance in Academics”

Title:	IPR: Its Relevance in Academics
Date and year:	16 January 2020
Venue:	Biotechnology Lab
Resource person/s:	Ms. Vallanka Dias
Organising Committee	
No. of Participants	26 Students
Objective:	To increase awareness about intellectual Property among students and to introduce to them about the IPR related policies of the Institution

Summary of the proceedings The seminar was conducted on 16 January 2020. The students were made aware about the different types of intellectual properties. The students were amazed to know how creations like a building architecture can also be an intellectual property. The students were also made aware of the serious offense of plagiarism and how they can go about using the information by giving due credit.



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Report of Seminar on Innovation/Social Innovation & Entrepreneurship

Title: Innovation/Social Innovation & Entrepreneurship

Date: 16th January, 2020

Summary: A Seminar on “Innovation/Social Innovation & Entrepreneurship”, on 16th January, 2020. The seminar was conducted by Mr. Tarun Krishna Kumar, a well-known experienced start up consultant, cum adviser, for the TY students studying Entrepreneurship and Finance.



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Report on “National Seminar on Landscape Evolution and Transformation”

Title: National Seminar on Landscape Evolution and Transformation

Date and year: 23rd Jan.2020

Venue: Department of Geography, Lower Auditorium

Objective: The seminar focuses on the notions relating to the heritage of territories and landscapes. The pedagogical path is articulated around the history of the concept of landscape and its appropriation by geography as well as its evolution in contemporary issues of the discipline. A reflection is also proposed on the changes in the territory, from both a conceptual and an operational point of view. Heritage thus emerges as one of the main pillars of the resilience of landscapes and territories. We analyze and illustrate the processes of co-construction of the representation and management of territories and landscapes in relation to the processes of heritage development. The interventions will also address the underlying themes of heritage processes: the implementation of the European Landscape Convention, tourism enhancement, links with other global issues including those of conservation of ecosystem services.

No. of Beneficiaries Faculty: 8
Students:18
Staff:2
Community:12

Sequence of events /Resource person/ s: Programme Schedule

9.30am	Registration
10.00am – 10.30am	Inauguration
10.30am - 11.30am	Key Note Address by Dr. Beatrice Moppert
11.30am – 11.45am	Tea Break
11.45am – 12.45pm	Session – I: Speaker - Dr. Rajiv Kumar Chaturvedi
12.45pm - 1.45pm	Session – II: Speaker - Dr. Ravindra Jaybhaye
1.45pm – 2.15pm	Lunch

2.15pm – 3.15pm Session – III: Speaker – Dr. P.T. Hanamgond
3.15pm – 4.15pm Session IV: Dr. Surendra Thakurdesai
4.15pm – 4.20pm Tea Break
4.20pm – 4.45pm Valedictory Function

Brief of experts

Dr. Beatrice Moppert,
Faculty, Department of Geography,
University of Reunion Island, Reunion,
France
<https://ufr-lsh.univ-reunion.fr/departements/geographie/enseignants/beatrice-moppert-1>

Dr. Ravindra Jaybhaye,
Professor & Head,
Department of Geography,
Savitribai Phule Pune
University, Pune,
Maharashtra, India
https://www.researchgate.net/profile/Ravindra_Jaybhaye

Dr. Rajiv Kumar Chaturvedi,
Faculty, BITS Pilani, Goa Campus,
Zuarinagar, Goa, India
<https://sites.google.com/site/chaturvedirajiv/home>

Dr. Surendra
Thakurdesai,
Vice-Principal, Gogate-
Jogalekar
College, Ratnagiri,
Maharashtra

Dr. P.T. Hanamgond,
Department of Geology, Govindram
Seksaria Science College, Belagavi,
Karnataka, India <https://scholar.google.co.in/citations?user=M0yvw4oAAAAJ&hl=en>

Dr. Pradip Sarvkadam,
Chairperson/Director, Goa State
Biodiversity Board, Saligao, Goa

Summary of the proceedings

- Inaugural session: Dr. A. C. Bicholkar, Head Department of Geography, formally welcomed all participant of the seminar. She gave brief about the college and department of Geography. Dr. N. N. Sawant, Principal and Convener of the seminar explained the objective of the seminar and officially opened seminar. He welcomed Dr. Beatrice Moppert, key note speaker of the session. Mr. Rahul P.S. Introduced Dr. Beatrice Moppert.
- Key Note Address by Dr. Beatrice Moppert. The natural and cultural land scape of Reunion Island, Reunion, France, was presented by Dr. Moppert. The transformation of landscape from tradition agricultural society to modern society in the natural land scape was cited with the beautiful maps, diagram and photographs.

- Session – I: Speaker - Dr. Rajiv Kumar Chaturvedi presented various models of climate change. In the light of the gaps of models postulated by IPCC, Dr. Rajiv Kumar gave Comprehensive climate change projections for India based on 18 General Circulation Models (GCMs) encompassing all the RCP scenarios for a continuous time period of 2005 to 2100.
- Session – II: Speaker - Dr. Ravindra Jaybhaye delivered a case of human wildlife conflict from his research on Human-Wildlife Conflict in Junnar Forest Division in conciliation of wildlife management using RS and GIS.
- Session – III: Speaker – Dr. P.T. Hanamgond described the geomorphological development of western Ghats and adjacent region using geological time scale. Evidences of sea level change, sedimentation and morphological stratification was well presented with the photo graphica evidences from Maharashtra, Goa and Karnataka.
- Session IV: Dr. Surendra Thakurdesai gave detail study of the laterite sculpture, laterite carving of sea creature far from the present sea shore. He established association of cultural space with the past sea level in the Konkan region of Maharashtra.
- Valedictory Function: organizing secretary took review of all the sessions and proposed vote of thanks. He specially proposed vote of thanks to each Speaker and Session Incharge Mr Rahul P.S., Miss. Delcia D Souza, Mr. Ashish Ashwini, Ms. Aisha Shaik, Ms. Ashlesha Saxena and Adrian Ferro, Kalpana Borkar and Mr. Ashpak Haveri for their support.

Photographs



Dr. Sawant, Dr. Moppert & Dr. Bichol releasing the souvenir



Dr. Beatrice Moppert



Dr. Rajiv Kumar Chaturvedi



Dr. Ravindra Jaybhaye,



Dr. P.T. Hanamgond,



Dr. Surendra Thakurdesai,



Participants given certificates by Dr. Beatrice Moppert.



Participants of Seminar



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Report of “Workshop on Time Management”

Title: Time Management

No of Participants: 50

Date: 17th, 18th, 21st and 23rd January, 2020

Summary: A workshop on “Time Management” was conducted for students of B.A/B.Sc on 17th, 18th, 21st and 23rd January, 2020 in the Student Support Service Classroom. A total of 50 students attended the same. The main objective of the workshop was to make students aware of the importance of time management that will help them to achieve better results and goals through effective planning. Also, help them to adopt appropriate strategies for dealing with interruptions, developing assertiveness and use of practical techniques for organizing work.





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Report of “Workshop on Plagiarism and Assignment Writing”

Title: Plagiarism and Assignment Writing

Date: 23rd January 2020

No of Participants: 31

Summary: A Workshop on “Plagiarism and Assignment Writing” was organized on 23rd January 2020 in the Student Support Service Classroom. The main objective of the workshop was to make the students aware of the significance of practicing ethical values in academic writing by avoiding plagiarism and also, to brief up on assignment writing with its various essential components. A total of 31 students participated in the workshop.




Workshop on “Plagiarism and Assignment Writing”



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REPORT OF SEMINAR ON INTELLECTUAL PROPERTY RIGHTS (IPR): IT'S RELEVANCE IN ACADEMICS	
Title:	Intellectual Property Rights (IPR): It's Relevance In Academics
Date and year:	24th January 2020
Venue:	CHGRL
Resource person:	1) Dr. Nandini Vaz Fernandes Ms. MadhuBalekai
No. of Participants	33 Students of SYBSc Zoology
Objective:	<i>The Seminar was conducted to create awareness on :</i> <ul style="list-style-type: none">- Need and importance of Intellectual Property Rights (IPR) among the faculty and students.- Initiatives by Chowgule College to promotion awareness of IPR.
Summary of the proceedings	<p>The Faculty of Department of Zoology organised a Seminar on " IPR: It's Relevance in Academics" on 24th January, 2020 for the SYBSc students of the department. 33 students attended the seminar. The objective of the seminar was to create awareness on need and importance of Intellectual Property Rights (IPR) and IPR promotion at Chowgule College. The session was conducted by Dr. Nandini Vaz Fernandes, and Ms. MadhuBalekai who covered various aspects of IPR viz patents, trademarks, industrial designs, Geographical indications, copyrights and related matters and discussed its relevance in academics/education institution.</p> <p>The students were unaware if the meaning of IPR and were therefore, explained what is IPR, types of IPR and relevance of IPR in academics. Students were enlightened on intellectual property ownership and attributions. Various aspects of Copyrights and related rights and Industrial property were discussed. They were also explained as to how awareness on IPR Encourages individuals to distribute and share information and data instead of keeping it confidential. Students were also informed about the college policies related to IPR.</p>
Photographs:	



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Report of “Awareness talk on Intellectual Property Rights and its Relevance in Academics”

Title: Intellectual Property Rights and its Relevance in Academics

Date and year: 27-01-2020

Venue: Class: B 203

Resource person/s: Dr. Ashish M. Desai

No. of Participants: 10

Objective:

To create awareness about Intellectual Property Rights amongst students of the physics department.

Summary of the proceedings

A talk on Intellectual Property Rights was conducted by the physics department for the Second Year B. Sc. Physics students. The talk started with the definition of IPR, its importance and its protection. Further, the types of IPR were mentioned and types like Copyright, Trademark, Patent and Industrial design were briefly discussed with examples. The talk concluded with the advantages of IPR and its relevance in academics and particularly in physics.

Photographs:





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Report of “Awareness talk on Intellectual Property Rights and its Relevance in Academics”

Title:	INTELLECTUAL PROPERTY RIGHTS: IT'S RELEVANCE IN ACADEMICS
Date and year:	28.01.2020
Venue:	B-307
Resource person/s:	VANESSA BARROS COLAÇO
Organising Committee	Research, Consultancy and Extension Activity Committee (RCEA-PCCAS)
No. of Participants	12
Objective:	-To create awareness on : -Need and importance of Intellectual Property Rights (IPR) among the students - IPR promotion at Chowgule College
Summary of the proceedings	Students were made aware of -What is IPR -Benefits -Areas of IPR – In academics -How college promotes IPR

Photographs





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Report on “Students Seminar Cum Exhibition on Presentations of internships”

Title: Students Seminar Cum Exhibition on “Presentations of internships”

Date: 11/02/2020

Summary: The Department of Geology in the event ‘Nebula’ conducted a Seminar involving presentations on internships taken up by students on 11th February, 2020. Students from Higher Secondary Schools in Goa who have offered Geology were invited to our campus to provide them an insight of the subject and also, to create an awareness regarding opportunities available in this field. Mr. Kiran Sawant Dessai, an Alumni of the department and proprietor of ‘Dip Direction’ (consultancy and geo services providing firm), was the Guest speaker. The students had arranged a display of various rocks, minerals, fossils and gemstones on the occasion for the visiting students.



Mr. Kiran Sawant addressing the students



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Report of National Workshop on 'Scientoons' on theme 'Clean India'

Title:	National Workshop on 'Scientoons' on theme 'Clean India'
Date and year:	12th and 13th February 2020
Venue:	Lower auditorium, Parvatibai Chowgule College
Resource person/s:	1. Dr. Pradeep K. Srivastava, Father of Scientoons and Scientoonics, Senior Principal Scientist in Medicinal and Process Chemistry Division, Former Deputy Director of Central Drug Research Institute, Lucknow 2. Mr. Vishal Muliya, Scientoonist and Visiting faculty in Govt. Physiotherapy College Jamnagar, Gujarat
Organising Committee	Convenor: Dr. R. Kanchana, Asst Prof, Dept of Biotechnology Organizing secretary: Ms. Madhavi Motonkar, Asst Prof, Dept of Biotechnology
No. of Participants	50
Objective:	To address environmental problems with solutions and inculcate the culture of environmental awareness and solutions through simple scientoons by provoking the participants towards critical thinking and create beautiful educative scientoons.
Summary of the proceedings	This unique type of National workshop on Scientoons was organized for the second time in the State of Goa as the previous workshop was a great. 'Scientoonics' is a new branch of science that deals with effective science communication using a novel class of science cartoons called 'scientoons' which not only makes one smile and laugh but also provides information about new researches, subjects, data and concepts in a simple, understandable, interesting and thought-provoking way. Scientoons can

play a vital role in making a common man understand the complex subject of science. Scientoon Poster and Scientoon Postcard competition were held on the theme 'Clean India' to address various environmental problems along with solutions on postcards and five prizes were awarded for each.

Postcard Scientoon Competition Awards

The recipient of the 'Best Scientoon Award' as first prize was Master Prathamesh P. Shetgaonkar First year B.Sc. Biotechnology student of Chowgule College Margao, he has also been nominated as the Second 'Ambassador of Scientoons for the State of Goa'; Second prize was awarded to Miss. Priyanka Shanke, Second year B.Sc. Biotechnology student from Chowgule College, Margao; Third prize was awarded to Miss. Tanisha Kantak, Class XI from Shree Damodar Higher Secondary School, Margao Goa. There were two Special Jury Awards announced by the Father of Scientoons. The recipients were Ms. Tanisha Kantak and Ms. Scimran da Costa, Second year B.Sc. Biotechnology student from Chowgule College.

Poster Scientoon Competition

The recipient of the first prize for Best Poster Scientoon was Miss. Shourya Mahalaxmika, Class XI from Shree Damodar Higher Secondary School, Margao. Second prize - Miss. Selcea S. D'Costa, second year B.Sc. Biotechnology student from Chowgule College Margao and the third prize to Miss. Soha N. Shaikh, Class XI from Government Multipurpose Higher Secondary School, Margao. Also, two Special Jury Awards were announced by the Father of Scientoons. The recipients of these awards were Miss. Lakiesha Coelho E Costa, First Ambassador of Scientoons for State of Goa declared by Father of Scientoons, TY B.Sc. Biotechnology student from Chowgule College and the second Special Jury Award recipient was Miss. Priyanka Shanke, SY B.Sc. Biotechnology student of Chowgule College Margao.





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Report of Workshop-training on Mobile GIS Epicollect5'.

Title:	Workshop-training on Mobile GIS Epicollect5'.
Date and year:	17 th February 2020
Venue:	Department of Geography , College Campus and Area around Gogal
Objective:	Objective of the workshop and training on mobile GIS is to <ol style="list-style-type: none">1. Introduce Epicollect5, as online (web based) data collection tool to assist field work2. Training student to prepare questionnaire (from doc) using Epicollect53. Sharing work and responsibility, team building4. Experience of using Epicollect5 on field and enter locational information5. Data processing and analysis and report preparation using web based application.
No. of Beneficiaries	Faculty:5 Students:30 Staff:0 Community:0
Sequence of events /Resource person/s:	9.00 am to 10.00 am : Session I : Introduction to Epicollect5, Scope , Functionality 10.15am to 11.30am: Session II: preparation of form (questionnaire) use of mobile & mobile GPS 11.30am to 12.00 noon visiting Gogal area 12.00 pm to 1.30 pm Session III: field work use of mobile based tool 2.30 pm to 2.30pm Session IV: data viewing and analysis
Brief of experts	Prof. Anil Karambelkar, Vice-Principal, Government College, Sanquelim, Goa

**Summary of
the
proceedings**

Session I: Dr. Karambelkar , introduced the app Epicollect5 and shown its various functions and tool to be used while preparation of questionnaire / form in it. He also showed several case studies of his work using Epicollect5. . strengths, working nature, responsibility of tem members and data sharing was explained.

Session II: Dr. Karamblekar demonstrated the way questions and responses can be framed. He prepared one template for local survey. The template titled as commercial establishments of Gogal. Also explained how use this on mobile phone and update – feed data using mobile. Session III: all participants were divided in teams for field work. All students visited local shops and other establishment. They used their mobile phones, mobile based GPS while collecting data.

Session IV: after field work all students were demonstrated the use of computer and web portal to access the data. Data was displayed using inbuilt map application.

Photographs



Prof. Anil Karambelkar (Resource Person) Vice-Principal, Govt. College, Sanquelim, Goa, delivering lecture session during the Workshop

Field work
For
Commercial establishment of Gogal



Student with resource person and organizers

One of the team of Epicollect5



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Report on “National Seminar on "Prof. D. B. Wagh Memorial lecture series”

Title: National Seminar on "Prof. D.B.Wagh Memorial lecture series

Date: 17/02/2020 to 20/02/2020

No of Participants: 31

The Department of Mathematics organized a National seminar on “**Prof. D.B. Wagh Memorial lecture Series**” for students, researchers and faculties from Goa from 17th – 20th February 2020. The seminar was partially sponsored by Mathematics Consortium, Pune. Total participants were 31(i.e. 22 undergraduate, 4 research scholars and 5 faculty members from Goa)



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Report of “Workshop on Automated Software Testing using Selenium and jmeter”

Title: Workshop on Automated Software Testing using Selenium and jmeter

Date and year: 22nd February & 24th February 2020

Venue: Upper Auditorium, Parvatibai Chowgule College of Arts & Science

Resource person/s: Ms. Purvi Keni, Module Lead, Persistent Systems Ltd, Goa.

No. of Participants: 50 (Students) 01(Faculty)

Department of Computer Science under DBT Star College Scheme.

Summary of the proceedings

To provide students with the hands-on experience of using testing tools used in software industry for automation testing.

Photographs



**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) - GOGOL, MARGAO-GOA**

INTERDISCIPLINARY ACTIVITY – DBT STAR COLLEGE SCHEME


REPORT OF RESEARCH PRESENTATION COMPETITION'

Title:	Science Megafest – ‘Research Presentation Competition’
Date and year:	25th February 2020 (DBT Interdisciplinary activity)
Venue:	Faculty of Life Science: Auditorium 1 Faculty of Natural Science: Auditorium 2 Faculty of Social sciences: D Block Faculty of languages: AV room
Organised by:	DBT Interdisciplinary Activity by Dr. Nandkumar Sawant Dr. Nandini Vaz Fernandes
Coordinated by	Deans
Judges:	Faculty of Life Science: J1-Prof. G N Nayak J2-Dr. Arnab Banerjee Faculty of Physical and Earth Science: J3-Dr. Satish Kelusakar J4-Dr. Mithal Fal Desai Faculty of Social sciences: J5-Dr. E.M.Travassos J6-Dr. Arvind Haldankar Faculty of languages: J7-Dr. Glenis Mendonca J8-Prof. Vaishnavi Raiker


No. of Participants	Students: 220 Faculty and Staff: 21
Objective:	The objective of the competition was to acquaint students to the process of Preparing PPT of their Research findings and understanding the manner of presentation for conferences
Summary of the proceedings	<p>Day 2: 25th February 2020 - 'Research Presentation Competition'</p> <p>Research presentation competition was organized for TYBA/ TYBSc students of Chowgule College, as part of Science megafest. The objective of the competition was to acquaint students to the process of Preparing PPT of their Research findings and understanding the manner of presentation for conferences. The event was coordinated by the Deans. Criteria of evaluation were 'Scientific approach' in conducting and representing research. A total of 220 students and 21 faculty members and nonteaching staff attended the event. 47 presentations were made by TYBA/TYBSc students.</p> <p>The judges appreciated the initiative of the college to conduct this event. Appreciation for DBT Star College Scheme by Judges is summarized below:</p> <ol style="list-style-type: none"> 1) "At the graduate students' level, students are exposed to scientific approach which is appreciable" remarked Prof. G N Nayak, Goa University, who was invited as a judge for faculty of Life Sciences. 2) "The college is doing recommendable work under DBT Star College Scheme in inculcating basic & applied research among BSc. Students. The works they have presented are of scientific values". - Dr. Arnab Banerjee 3) "Students responded well for this presentation activity based on their project work" - Dr. Satish Kelusakar. 4) "Presentation is a positive approach to contribute to the growth and development of the students. Students will definitely benefit by such activity" - Dr. Mithal Fal Desai, Judge for Physical & Earth Sciences.

- 5) "A very good initiative. Such competition for students should be continued as its timely and much needed to encourage students", commented by Dr. Travassos, Judge for Social Sciences.
- 6) "It was praise worthy and admirable to see TY students reach the level of M.Phil scholars making their pre-synopsis in 10 mins", Dr. Glenis Mendonca, Judge for Languages & Literature.

BROCHURE



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SCIENCE MEGAFEST


24th – 26th February 2020

DAY 2: 25th FEBRUARY 2020

For TYBA/TYBSc Students
Time: 9.30 to 1.00 pm




Faculty of Languages
Faculty of Social Sciences



Faculty of Life-Sciences
Faculty of Natural & Earth Sciences

RESEARCH PAPER PRESENTATION COMPETITION



OBJECTIVE: To acquaint students to the process of Preparing PPT of their Research findings and understand the manner of data presentation for conferences.

PHOTOGRAPHS



Faculty of Languages & Literature



Faculty of Social Sciences.



Faculty of Life Sciences



Faculty of Physical & Earth Sciences



**REPORT BY
DR.NANDINI VAZ FERNANDES**

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) - GOGOL, MARGAO-GOA**

INTERDISCIPLINARY ACTIVITY – DBT STAR COLLEGE SCHEME

REPORT OF SCI-FAIR-SCIENCE EXHIBITION

Title:	Science Megafest – SCI-FAIR-Science Exhibition
Date and year:	26th February 2020
Venue:	1. College QUAD 2. Physics Lab 3. Botany lab
Organising Committee	DBT Interdisciplinary Activity by 1) Dr. Nandkumar Sawant 2) Dr. Nandini Vaz Fernandes Co-coordinated by: 1) Dr. Lactina Gonsalves 2) Mr. Yatin Desai
No. of Participants	1)294 School students 2) 15 School teachers Community activity - Students 06 Schools
Objective:	To enable school students to understand concepts and fundamentals of science and develop scientific temper and curiosity. This event was especially organised for school students to enable them to understand the concepts of Science by observing the demonstration of the same, by Chowgule college students.

<p>Summary of the proceedings</p>	<p>Day 3: 26th February 2020 - Science Exhibition</p> <p>On the third day of SCIENCE MEGAFEST, the college organised 'SCI-FAIR' – Know your Concepts Science Exhibition'. This event was especially organised for school students to enable them to understand the concepts of Science by observing the demonstration of the same, by Chowgule college students.</p> <p>The students of 06 DBT departments put up 47 Exhibits / Working models to explain concepts in Physics, Chemistry, Computer Science, Biology and Earth Sciences. A total of 294 students and 15 teachers from 06 Schools participated in 'SCI-FAIR'.</p> <p>Exhibits put up by students of Botany, Chemistry, Computer Science, Geology, Geography and Physics were:</p> <ol style="list-style-type: none"> 1. Demonstration of the Brachistochrone problem 2. Representation of Lissajous figures 3. Newton's Cradle 4. Demonstration of Faraday's Law 5. Demonstration of Electromagnet 6. Working of an Electric Motor 7. Demonstration of stereoscopic vision Mirror stereoscopes 8. Anaglyph 3d visualisation -demonstration of aerial photograph using blue and red eye glasses 9. Stereoscopic vision test- Card method 10. Morphological Models - landforms 11. Display of printed satellite images 12. Solar system 13. Concept of Energy 14. Wind Power 15. Bird's eye view 16. Volcano

17. Rainwater harvesting
18. The Magic Blue Bottle
19. Electrolysis of water
20. Litmus paper test
21. Construction of Daniel
22. Water purification tower
23. Separation of substances
24. Electroplating
25. Fire extinguisher
26. Drip irrigation
27. Vertical gardening
28. Electricity generation from potato
29. Respiratory system
30. NO-SUP Awareness
31. Charge Induction in Electrostatics
32. Hologramic Illusion
33. Line Following Robot
34. Doppler effect
35. App for Maths & Science
36. Multimedia- Classroom Discipline
37. Obstacle Avoidance Robot
38. Remote Control of Appliances
39. Control of Lights using voice command
40. Demonstration of Audacity tool
41. Demonstration of Powtoon tool
42. Demonstration of GIMP tool
43. Minerals and Gemstones
44. Igneous rocks
45. Sedimentary rocks
46. Metamorphic rocks
47. Fossils

BROCHURE



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SCIENCE MEGAFEST

24th – 26th February 2020

DAY 3: 26th FEBRUARY 2020



WELCOME TO "SCI-FAIR"

'KNOW YOUR CONCEPTS' SCIENCE EXHIBITION

Objective: To enable school students to understand the concepts of Science by observing the demonstration of the same by Chowgule college students.

PHOTOGRAPHS

SCIENCE MEGAFEST: Day 3: 26th February 2020

SCI-FAIR- SCIENCE EXHIBITION



**SCIENCE MEGAFEST: Day 3: 26th February 2020
SCI-FAIR- SCIENCE EXHIBITION**



**REPORT BY
DR.NANDINI VAZ FERNANDES**

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) - GOGOL, MARGAO-GOA**

INTERDISCIPLINARY ACTIVITY – DBT STAR COLLEGE SCHEME

REPORT OF SESSION ON ARTIFICIAL INTELLIGENCE

Title:	Science Megafest – Artificial Intelligence
Date and year:	24 th February 2020
Venue:	1) Auditorium 2) AV Room
Organized by:	Interdisciplinary DBT activity organised by 1) Dr. Nandkumar Sawant 2) Dr. Nandini Vaz Fernandes
Resource person/s:	1) Mr. Gajanan Nial 2) Mr. Mahesh Matha Venue Coordinators: Mr. Andrew Barreto Mr. Abishek Gude
No. of Participants	164 students (Students of Arts and Science)
Objective:	The objective of the programme was to create awareness on Artificial Intelligence and understanding it in context of its integration in our lives now, and in future.
Summary of the proceedings	Interdisciplinary event ‘Science Megafest’ was organized by the Chairman and Overall College Coordinator of DBT Star College Scheme, from 24th to 26th February 2020. This interdisciplinary three day fest was planned with specific objectives of promoting Science amongst the student community. Day 1: 24th February 2020 – Session on ‘Artificial Intelligence’

This event was organized for all students of Parvatibai Chowgule College. The objective of the programme was to create awareness on Artificial Intelligence and understanding it in context of its integration in our lives now, and in future. The event started with introductory talk on 'Artificial Intelligence' by Mr. Mahesh Matha and Mr. Gajanan Nial. The event was hosted by Mr. Andrew Barreto and Mr. Abhishek Gudekar at the auditorium/AV room of CTL. The talk was followed by screening of movie depicting aspects of Artificial intelligence in entertainment/commercial sector, just to highlight that what seemed to be science fiction then, has become reality today and AI may play further greater role in future. The event was attended by 164 students and teachers

BROCHURE



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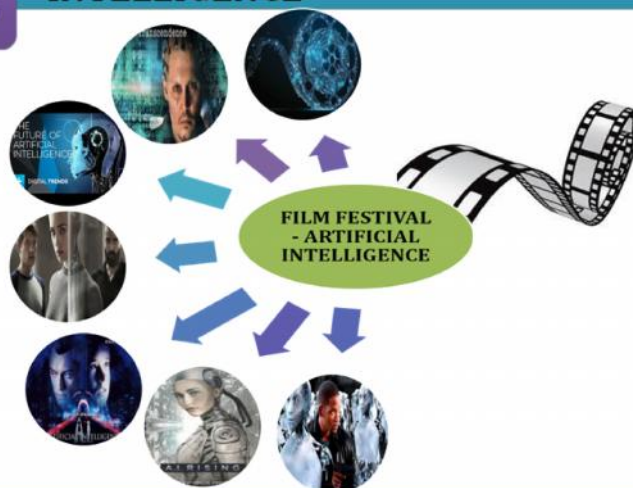
SCIENCE MEGAFEST

24th – 26th February 2020

DAY 1: 24th FEBRUARY 2020 "AWARENESS ON ARTIFICIAL INTELLIGENCE"

**SCREENING OF MOVIES ON
 "ARTIFICIAL INTELLIGENCE"
 VENUE: AUDITORIUM (U&L)
 TIME:: 12.00 - 2.30PM
 ALL ARE WELCOME**

OBJECTIVE: To Create awareness on 'Artificial Intelligence' and understand it in context of it's integration in our lives now, and in future.



PHOTOGRAPHS



**SCIENCE MEGAFEST: Day 1: 24th February 2020
Theme 'Artificial Intelligence'**



**REPORT BY
DR.NANDINI VAZ FERNANDES**



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Report on “Short-term training course on Entrepreneurial Opportunities in Fermentation Food Technology”

Title: Short-term training course on Entrepreneurial Opportunities in Fermentation Food Technology

Date and year:	24th to 29th February 2020
Venue:	Parvatibai Chowgule College
Resource person/s:	<ol style="list-style-type: none">1. Dr Archana Thakur, Managing Director, Codon Biosciences Pvt. Ltd., Goa- The Art and Science of Fruit Wine Making (24.02.2020) -2. Dr. Aduja Naik, Asst Prof, Dept of Biochemistry, Parvatibai Chowgule College of Arts and Science, Margao, Goa -Chemistry of bread making (25.02.2020)3. Dr. Supriya Prabhu Khorjuenkar Asst Prof, Dept of Biochemistry, Parvatibai Chowgule College of Arts and Science, Margao, Goa. -Fermented products from Coconut & Cashew apples (26.02.2020)4. Ms. Hashma Mujawar, Asst Prof, Dept. of Biotechnology, Parvatibai Chowgule College of Arts and Science, Margao, Goa- Yogurt Vs. Curd (27.02.2020) -5. Ms. Gautami Raikar, Director and CEO, Attort Legal Consultancy, Private Limited -IPR in Food Sector (28.02.2020)6. Mr. Vikash Chandra, Director, Dairy de Goa -Probiotics and Entrepreneurship (28.02.2020)7. Shri. Richard Norhonha, Directorate of Food & Drugs Administration, Bambolim Goa -Food Safety & Regulations (29.02.2020)
Organising Committee	Convenor: Dr.R.Kanchana, Asst Prof, Dept of Biotechnology Organising secretary: Dr. Aduja Naik, Asst Prof, Dept of Biochemistry
No. of Participants	25
Objective:	to develop entrepreneurial spirit among participants for inspiring them to set up their start-up and to take up improved formulations from traditional fermented food products.

Summary of the proceedings

Various resource persons were invited to deliver lecture and hands on training in their expertise such art of fruit wine making, chemistry of bread making, production of fermented products from Cashew and Coconut, Yogurt v/s Curd, Probiotic product development, Food Safety Compliance, Entrepreneurial opportunities in food sector and Intellectual Property Rights.

Photographs:



**Bread & Fruit wine prepared in the workshop
canvassing**

Lecture on Business model

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) - GOGOL, MARGAO-GOA**

**INTERDISCIPLINARY ACTIVITY – DBT STAR COLLEGE SCHEME
REPORT OF WORKSHOP ON
RESEARCH BASED PEDAGOGICAL TOOLS**

Title:	WORKSHOP ON RESEARCH BASED PEDAGOGICAL TOOLS
Date and year:	5 TH – 7 TH March 2020
Venue:	1) Auditorium 2) AV Room 3) CTL
Resource person/s:	Dr. Apurva Bharve Dr. Asim Auti Ms. Shanti Pise Ms. Prachi P.
Organised by	DBT Interdisciplinary activity by 1) Dr. Nandkumar Sawant 2) Dr. Nandini Vaz Fernandes
Committee members:	Shri. H S S Nadkarni, Lactina Gonsalves, Yatin Dessai, Andrew Barreto, Sachin Moraes, Sangeeta More, Anushka Fernandes, Prasanna Naik Gaonkar, Madhu Balekai, Padmini Panjekar, Suveena Tamse, Deepak Bhandari, Shekar Gaude, Avinash, Sanjay Swain, Vinod.
No. of Participants	61
Objective:	To train teachers to promote learners to think beyond the textbooks and do some research to understand the concept in more concrete way. It was focused on empowering teachers with Research based pedagogical tools to teach content / subject matter with a more scientific approach of teaching-learning.

Summary of the proceedings

Workshop on 'Research Based Pedagogical Tools': Regional workshop was organized at Parvatibai Chowgule College from 5th to 7th March, 2020. The workshop was co-organised with the MHRD-supported Centre of Excellence in Science and Mathematics Education (COESME) of Indian Institute of Science and Education Research (IISER) Pune and Parvatibai Chowgule College under DBT Star College Scheme.

The chief guest of the workshop was Prof. Venkatesh Kamat, Dean-Goa Business School of Goa University. The Resource persons were from COESME, IISER and conducted hands on training on research based pedagogical tool as effective teaching learning method, to 61 participants from various colleges in Goa, Maharashtra and Karnataka. The three day long programme trained teachers to develop Research based pedagogical tools (RBPTS) which can be used effectively in teaching- learning processes. It aimed at introducing research as a pedagogical tool to build an environment for the learner which promotes inquiry based learning. The Basic idea of this workshop was to train teachers to promote learners to think beyond the textbooks and do some research to understand the concept in more concrete way.



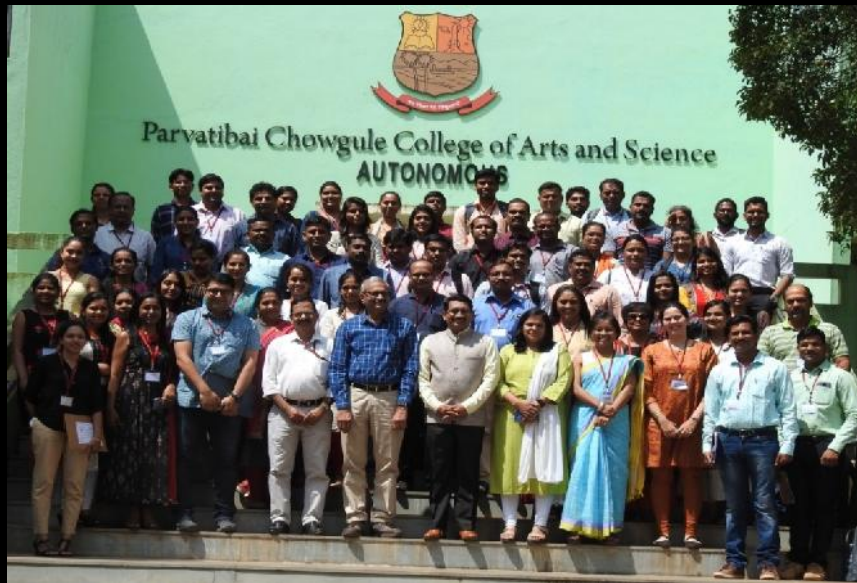


Inaugural Function



Resource persons: Dr. Apurva Bharve, Dr. Asim Auti, Ms. Prachi P and Ms. Shanti Pise

PARTICIPANTS



EVENTS



**REPORT BY
DR. NANDINI VAZ FERNANDES**

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
GOGOL, MARGAO-GOA**

**DBT STAR COLLEGE SCHEME INTERDISCIPLINARY ACTIVITY
BY
INNOVATION AND INCUBATION CELL COMMITTEE
ACADEMIC YEAR 2019-2020**

Activity:	Session on “How to Plan for Start-up and Legal & Ethical Steps”
Date and year:	6 th March 2020
Venue:	Lower Auditorium
Objective:	Promoting Start-Ups in Campus
No. of Beneficiaries	Faculty: 03 Students: 68
Sequence of events /Resource person/s:	Adv. Ms. Prasanna Timble
Brief of experts	Founder and managing attorney of Legawise
Summary of the proceedings	Innovation and Incubation Cell Committee of Parvatibai Chowgule College of Arts & Science in association with DBT-Star College Scheme organised a session on “ How to Plan for Start-up and Legal & Ethical Steps ” by Advocate Ms. Prasanna Timble, founder and managing attorney of Legawise. This talk was held on 6 March 2020 in the lower auditorium, from 2.30pm to 4.30pm. Ms. Timble, an experienced lawyer who runs her own legality based startup, Legawise, talked to the students about the legal aspects that come with starting, owning and operating a startup. Starting off, she talked about Legalities in Business, covering aspects like licences, registrations, leases, deeds, contracts and agreements, clarifying what set them all apart from each other, and how one has to approach each of them. She also pointed out that experience working as an employee is crucial before one starts a business, so as to understand what

goes into making a business from an employee's side.

Ms. Timble then discussed Intellectual Property, patents, industrial design, trade secrets and trademarks, as well as infringements of the same. She also talked about Copyright, and why it is a crucial concept to be understood before one begins working on a startup venture. She also discusses how internet presence works, tackling various subjects like Privacy Policy, Terms of Service, and more. She concluded the session with an introduction to business structures, discussing the various structures that a startup can take, depending upon the variables, discussing Proprietorship, Partnership, LLP, and more.

Photographs



**REPORT BY
SHRI. V. PRABHAKARAN**

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)
GOGOL, MARGAO-GOA**

**DBT STAR COLLEGE SCHEME INTERDISCIPLINARY ACTIVITY
BY
INNOVATION AND INCUBATION CELL COMMITTEE
ACADEMIC YEAR 2019-2020**

Activity:	Mentoring Session on “Hangout with Successful Start-ups (Entrepreneurs in Campus)”
Date and year:	7 th March 2020
Venue:	Lower Auditorium
Objective:	Promoting Start-Ups in Campus
No. of Beneficiaries	Faculty: 02 Students: 60 Staff: -- Community: --
Sequence of events /Resource person/s:	Mr.Vasant Hede
Brief of experts	Entrepreneur
Summary of the proceedings	<p>Innovation and Incubation Cell Committee of Parvatibai Chowgule College of Arts & Science in association with DBT-Star College Scheme organised a Mentoring Session - “Hangout with Successful Startups - (Entrepreneurs in Campus) “ on 7 March 2020 in the lower auditorium, from 2.30pm to 4.30pm. This was more of an interactive session. Mr.Vasant Hede is a former software developer turned chef who currently runs Café Lovii, as a food truck, and as an establishment in the college. He used the session to reveal his journey to the students, and what it was like for him to discover his passion and get into it as a career.</p> <p>He talked about how he started working for Infosys, and that led to him starting to cook for himself and his roommates. He talked about experimenting with his career by going to the UK to learn marketing, and working with interns there, which eventually led him into taking up a position at our college, starting our internship programme.</p>

He discussed his step by step journey into starting Café Lovii, starting with delivering sandwiches to his family members, and his plans to have a full fledged physical café in the near future.

He also discussed the licences and other requirements that make it hard to run a food business, and how one can go about such procedures.

The session ended with a Q&A session where Mr.Vasant Hede discussed various aspects of the food business that most youngsters are curious about.

Photographs



**REPORT BY
SHRI. V. PRABHAKARAN**



Parvatibai Chowgule College of Arts and Science
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Report on “Innovation, IPR & Entrepreneurship and Startup”

Title: Innovation, IPR & Entrepreneurship and Startup”

Summary: MHRD’s Innovation Cell (MIC) organised "India First Leadership Talk Series" during the month on various topics during the COVID-19 Pandemic for the benefit of the faculty and students coordinated by Dr. Abhay Jere, Chief Innovation Officer, MHRD Innovation Cell on Twitter live. Many students and faculty attended the same. MHRD’s innovation cell organized 15 e-Sessions on various themes of innovation, IPR & Entrepreneurship and Startup for the IIC Calendar year 2019-2020. These sessions were telecast on MIC You tube Channel (<https://www.youtube.com/mhrdinnovationcell>) from 28th April 2020. Innovation and Incubation Cell (IIC) of the College coordinated these sessions for the benefit of faculty and students. Four e-Sessions were organised from 28th April, 2020 to 1st May, 2020.