



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



**ACADEMIC AUDIT REPORT
FOR ACADEMIC YEAR
2019-2020
EVEN AND ODD SEMESTER**

FACULTY OF PHYSICAL & EARTH SCIENCES

Prepared By:

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Dean-Physical & Earth Sciences,

Parvatibai Chowgule College of Arts & Science, Autonomous, Margao, GOA

15TH FEBRUARY, 2021

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EXECUTIVE SUMMARY

INTRODUCTION

The Academic Audit Report for the Academic Year 2019-2020 for the Physical and Earth Science Departments (PES) is attached here in two parts. For the Odd semester and then the Even semester. In spite of the COVID-19 pandemic during the second half of the academic year (even semester), the Faculty did a commendable job in syllabus completion, teaching-learning and assessment during the semester. There were some attempts made at online innovations in teaching, learning and evaluation too.

For the Odd Semester a total of fifty seven courses from Physics, Chemistry, Computer Science, Geology, M.Sc. Information Technology and Postgraduate in Computer application departments were audited.

For the Even Semester a total of fifty five courses from Physics, Chemistry, Computer Science, Geology, M.Sc. Information Technology and Postgraduate in Computer application departments were audited.

OBSERVATIONS AND CONCLUDING REMARKS

TEACHING -LEARNING

The Faculty have uploaded resources for the courses as per Form 5 Format (CLAAP Monitoring Form). Google Classroom was the Learning Management System (LMS) that was more widely used. The resources and content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5% overall. The teaching methods involved using of Traditional Lecture Methods via Blackboard, ICT enabled blended learning using presentations in Power Points, demonstrations in class and also during practical sessions. Some of the methods common across the PES faculty are listed below:

- Problem Solving
- Case Study
- Interactive Teaching
- Group Discussion
- Debate
- GMeet (during the COVID-19 pandemic)

There were no suggestions for Course Syllabus revision from any Faculty/Department.

EVALUATION OF COURSE

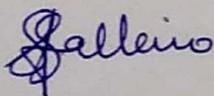
The dates of every assessment were announced at least 10 days before the conduct of the examination. The instructions/guidelines and rubrics were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.

INNOVATION

Faculty from some departments used NPTEL courses and OCW as additional reading / learning resources to help students strengthen their foundation on different topics. In view of the pandemic COVID-19, some faculty conducted assessments/evaluations using Google Forms, Viva voce via GMeet and used Portfolio based assessment techniques. The teaching-learning was online using GMeet and communication/interactions were also done by forming class official groups on platforms/groups like WhatsApp. By doing this the faculty ensured that all material and official communication was being communicated to students on a regular basis and no one was felt left out in view of offline classes.

The Department of Mathematics and Department of Geography have not submitted the Academic Audit Report for the entire Academic Year 2019-2020 in spite of repeated reminders. The same has been brought to the notice of the Principal.

The Dean-PES wishes to place on record sincere thanks to College Authorities, Faculty, Students and Support Staff for their cooperation in this Audit Process.



Dr. (Ms). Sameena Falleiro

Dean, Faculty of Physical & Earth Sciences

15th February 2021

ParvatibaiChowgule College of Arts and Science (Autonomous)
ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT (2019-2020)

NAME OF THE PROGRAMME: _BSc(Semester I/III/V)_
SUBJECT:CHEMISTRY

REPORT OF COURSES AUDITED: Head, Department Of Chemistry

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1	General Physical and Inorganic Chemistry CHE-I.C-1	1)Manjita Porob(Physical Chem) 2)RoopaBelurkar(Inorganic Chem)	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture powerpoint was uploaded on google classroom 3)Lecture schedule was uploaded on google classroom at the beginning of semester 4) Variance of lecture Nil 5) Course and unit rating is just right 6) Variance in number of practicals for all batches- Nil	1)Sufficient time was given to the students before evaluation and results were declared on time 2)Marking Scheme was disclosed 3)Feedback on assessment was shared with the students 4)Modes of assessment were written test and Problem solving / Assignments 5) No weightage for higher order questions in CA 1	
2	GeneralOrganic and Inorganic Chemistry CHE-I.C-2	1)PadminiRaikar(organic Chem) 2)NavitaNaik(Inorganic Chem)	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture powerpoint was uploaded on google classroom 3)Lecture schedule was uploaded on google classroom at the beginning of semester 4) Variance of lecture +02	1)Sufficient time was given to the students before evaluation and results were declared on time 2)Marking Scheme was disclosed 3)Feedback on assessment was shared with the students 4)Modes of assessment	

			<p>5) Course and unit rating is just right</p> <p>6) Variance in number of practicals for all batches +02</p>	<p>were written test and Assignment</p> <p>5) No weightage for higher order questions in CA 1</p>	
3	<p>Comprehensive Chemistry –I CHE-III.C-5</p>	<p>1) Sachin Kakodkar (Physical Chem)</p> <p>2) Navita Naik (Inorganic Chem)</p>	<p>1) Interactive learning and power point presentations are employed along with Traditional method</p> <p>2) Lecture powerpoint was uploaded on google classroom</p> <p>3) Lecture schedule was uploaded on google classroom at the beginning of semester</p> <p>4) Lecture variance is Nil</p> <p>5) Course and unit rating is just right</p> <p>6) Variance in number of practical for batches Nil</p>	<p>1) Sufficient time was given to the students before evaluation and results were declared on time</p> <p>2) Marking Scheme was disclosed</p> <p>3) Feedback on assessment was shared with the students</p> <p>4) Modes of assessment were written test & Assignment</p> <p>5) No questions in CA 1 were of higher order</p>	
4	<p>Name Reaction and Synthetic Methodologies CHE-III.E-1</p>	<p>1) Padmini Raikar</p> <p>2) Mayuri Naik</p>	<p>1) Interactive learning and power point presentations are employed along with Traditional method</p> <p>2) Lecture powerpoint was uploaded on google classroom</p> <p>3) Lecture schedule was uploaded on google classroom at the beginning of semester</p> <p>4) Lecture variance is +02</p> <p>5) Course and unit rating is just right</p> <p>6) Variance in number of</p>	<p>1) Sufficient time was given to the students before evaluation and results were declared on time</p> <p>2) Marking Scheme was disclosed</p> <p>3) Feedback on assessment was shared with the students</p> <p>4) Modes of assessment were Written test and assignment.</p>	

			practical for all batches is Nil		
5	Catalysis and Surface Chemistry CHE-III.E-3	1) Sachin Kakodkar 2) Ganpat Naik	1) Interactive learning and power point presentations are employed along with Traditional method 2) Lecture powerpoint was uploaded on google classroom 3) Lecture schedule was uploaded on google classroom at the beginning of semester 4) Lecture variance is Nil 5) Course and unit rating is just right 6) Variance in number of practical for all batches is +01	1) Sufficient time was given to the students before evaluation and results were declared on time 2) Marking Scheme was disclosed 3) Feedback on assessment was shared with the students 4) Modes of assessment were Written test and assignment	
6	Bioinorganic Chemistry CHE-III.E-4	1) Lactina Gonsalves 2) Kashinath Dhumaskar	1) Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2) Lecture powerpoint was uploaded on google classroom/CLAAP 3) Lecture schedule was uploaded on google classroom/CLAAP at the beginning of semester 4) Variance of lecture -Nil	1) Sufficient time was given to the students before evaluation and results were declared on time 2) Marking Scheme was disclosed 3) Feedback on assessment was shared with the students 4) Modes of assessment were Assignment viva and written test	Dr. Lactina Gonsalves has employed the technique of POGIL in teaching the course for 5% of the lectures. Students had verbally expressed grievances over the teaching and class handling ability of Dr. Kashinath Dhumaskar

			<p>5) Course and unit rating is just right</p> <p>6) Variance in number of practical for all batches is Nil</p>		
7	Advanced Chemistry –I CHE-V.C-7	<p>1) Manjita Porob (Physical Chem)</p> <p>2) Roopa Belurkar (Inorganic Chem)</p>	<p>1) Interactive learning and power point presentations are employed along with Traditional method</p> <p>2) Lecture powerpoint was uploaded on google classroom</p> <p>3) Lecture schedule was uploaded on google classroom at the beginning of semester</p> <p>4) Variance of lecture- +04</p> <p>5) Course and unit rating is just right</p> <p>6) Variance in number of Practicals for all batches---01</p>	<p>1) Sufficient time was given to the students before evaluation and results were declared on time</p> <p>2) Marking Scheme was disclosed</p> <p>3) Feedback on assessment was shared with the students</p> <p>4) Modes of assessment were written test, Problem solving and Power point presentation.</p> <p>5) CA II in Physical chemistry was completely applicative</p>	<p>01 Practical performed in Inorganic Chemistry was out of syllabus</p>
8	Heterocyclic Chemistry CHE-V. E-9	<p>1) Mayuri Naik</p> <p>2) Kashinath Dhumaskar</p>	<p>1) Interactive learning and power point presentations are employed along with Traditional method and problem solving.</p> <p>2) Lecture powerpoint was uploaded on google classroom</p> <p>3) Lecture schedule was uploaded on google classroom at the beginning of semester</p>	<p>1) Sufficient time was given to the students before evaluation and results were declared on time</p> <p>2) Marking Scheme was disclosed</p> <p>3) Feedback on assessment was shared with the students</p> <p>4) Modes of assessment</p>	<p>Students had verbally expressed grievances over the teaching and class handling ability of Dr. Kashinath Dhumaskar</p>

			<p>4) Variance of lecture -01</p> <p>5) Course and unit rating is just right</p> <p>6) Variance in number of practical for all the batches is 00</p>	<p>were Assignment and written test</p>	
9	<p>Nanomaterial and Solid state Chemistry</p> <p>CHE-V. E-10</p>	<p>1) Ganpat Naik</p> <p>2) Kashinath Dhumaskar</p>	<p>1) Interactive learning and power point presentations are employed along with Traditional method and problem solving.</p> <p>2) Lecture powerpoint was uploaded on google classroom/CLAAP</p> <p>3) Lecture schedule was uploaded on google classroom/CLAAP at the beginning of semester</p> <p>4) Variance of lecture – 02</p> <p>5) Course and unit rating is just right</p> <p>6) Variance in number of practical for all the batches is 01</p>	<p>1) Sufficient time was given to the students before evaluation and results were declared on time</p> <p>2) Marking Scheme was disclosed</p> <p>3) Feedback on assessment was shared with the students</p> <p>4) Modes of assessment were written test and model making assignment</p>	
10	<p>Organometallic Chemistry</p> <p>CHE-V. E-11</p>	<p>1) Lactina Gonsalves</p> <p>2) Roopa Belurkar</p>	<p>1) Interactive learning and power point presentations are employed along with</p>	<p>1) Sufficient time was given to the students before evaluation and results</p>	

			<p>Traditional method and problem solving.</p> <p>2)Lecture powerpoint was uploaded on google classroom/CLAAP</p> <p>3)Lecture schedule was uploaded on google classroom/CLAAP at the beginning of semester</p> <p>4)Variance of lecture – Nil</p> <p>5) Course and unit rating is just right</p> <p>6)Variance in number of practical for all the batches is Nil</p>	<p>were declared on time</p> <p>2)Marking Scheme was disclosed</p> <p>3)Feedback on assessment was shared with the students</p> <p>4)Modes of assessment were Problem solving and written test</p>	
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Manjita R Porob

Name and Signature of HOD

Parvatibai Chowgule College of Arts and Science (Autonomous)

ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT

ODD SEMESTER(2019-20)

NAME OF THE PROGRAMME: B.SC

SUBJECT: COMPUTER SCIENCE

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING - LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1.	Mathematical Foundation I COM-I.C-1 Semester:I	Ms. Vidhya Nadagaddi	41 lectures Traditional lecture method, Interactive lecture method, Student presentation, Laboratory work	Test1:Written test, Test2:MCQ, Test3: Assignment	Teaching-Learning Processes:Google Classroom,Assignment, Evaluation Processes:Written test, MCQ's, Assignment
2.	Introduction to Programming COM-I.C-2 Semester:I	Ms. Diksha Prabhu Khorjuvenkar	44 lectures,Traditional lecture method, Interactive lecture method, Student presentation, Laboratory work	Test1:Written test, Test2:MCQ, Test3:Presentation	Teaching-Learning Processes:Google Classroom, Presentation,Evaluation Processes:Written test, MCQ's,Presentation
3.	Database Management Systems I COM-III.C-5 Semester: III	Ms. Diksha Prabhu Khorjuvenkar	41 lectures, Traditional lecture method, Interactive lecture method, Student presentation, Laboratory work	Test1:Written test,Test2: MCQ,Test3: Presentation	Teaching-Learning Processes:Google Classroom, Presentation, Evaluation Processes:Written test, MCQ's, Presentation

4.	Software Engineering COM-III.E-1 Semester: III	Ms. Judith Barreto	41 lectures, Traditional lecture method, Interactive lecture method, Group discussion, Problem solving, Student presentation, Case studies, Laboratory work	Test1:Mixed, Test2:Presentation, Test3:Assignments, Test4: End Sem	Teaching-Learning Processes:CLAAP, Evaluation Processes:Presentations
5.	Digital Logic Design COM-III. E-2 Semester: III	Dr. Shaila Ghanti	42 lectures, Traditional Lecture Method, Interactive Lecture Method, Student Presentation, Laboratory Work	Test1:MCQ with short answers, Test2:Presentation with Designing, Test3:Open Book (Notes) Exam, Test4:SEE	-----
6.	Web Designing COM-III.E-4 Semester: III	Mr. Ian Barreto			
7.	Operating Systems COM-V.C-7 Semester: V	Mrs. Suchitra Bhat	43 lectures, Interactive lecture method, Problem Solving, Laboratory work	Test1:Tests, Test2: MCQ's, Test3:Assignment, Test4:Semester End Exam	---
8.	Embedded Systems COM-V. E-9 Semester: V	Mr. V.C. Kumaresh	45 lectures, Traditional lecture method, Interactive lecture method, Student presentation, Case studies, Laboratory work	Test1 Assignment, Test2: Written test, Test3:Presentation, Test4:SEE	Classroom brain storming session on new ideas to automate any real time systems. Students came up with ideas of doing mini projects. Three mini projects are 1. Weather Monitoring system using Raspberry Pi, 2. Obstacle avoidance Robot, 3. Health Monitoring system
9.	Mobile Application	Ms. Vidhya Nadagaddi	41 lectures, Traditional lecture method, Interactive lecture	Test1:Written test, Test2:MCQ's, Test3:Assignment	Teaching-Learning Processes:Google Classroom, Assignments, Evaluation

	Development COM-V. E-10 Semester: V		method,Laboratory work, Assignments		Processes:Written test, MCQ's, Assignment
10.	Introduction to Data Science COM-V. E-11 Semester: V	Ms. Ashweta Fondekar	41 lectures Traditional lecture method, Interactive lecture method, Problem Solving	Test1:Written tests, Test2:MCQ's,Test3: Presentation	Teaching-Learning Processes:Google Classroom,Assignments, Evaluation Processes:Written test, MCQ's
11.	Software Testing COM-V.E-12 Semester: V	Ms. Judith Barreto	42 lectures, Traditional lecture method, Interactive lecture method,Group discussion, Problem solving,Student presentation, Case studies,Laboratory work	Test1:Mixed, Test2:Presentation,Test3:Assignments, Test4:End Sem	CLAAP, Presentations

Name and Signature of HOD

Parvatibai Chowgule College of Arts and Science (Autonomous)

ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT

ODD SEMESTER(2019-20)

NAME OF THE PROGRAMME: B.SC

SUBJECT: COMPUTER SCIENCE

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1	Python Programming COM-SEC1	Mr. D.Prabakaran	56 lectures, Traditional Lecture Method,Interactive Lecture Method,Group Discussion,Problem Solving,Student Presentation,Experiential Learning,Case Studies, Assignment:Solving online questions.Revision on the previous topic before teaching a new topic	Test1:Written Test,Test2:Assignment,Test3:Mini Project, Test4: (SEE)	Teaching-Learning Processes:Google Classroom, Presentations, Evaluation Processes:Problem Solving, Written Test, Assignment, Marking Schemes, Revision, Developing a mini project on a given problem
2	E Learning COM-GEC.2	Ms. Ashweta Fondekar	54 lectures,Traditional Lecture Method,Interactive Lecture Method,Group Discussion,Student Presentation	Test1:Written Test,Test2 MCQ,Test3:Presentation	Teaching-Learning ProcessesGoogle Classroom, Assignment,Presentation, Evaluation Processes:Written test, Multiple Choice Questions, Presentation.

Name and Signature of HOD

ParvatibaiChowgule College of Arts and Science (Autonomous)
ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT (2019-2020)

NAME OF THE PROGRAMME : Bachelor of Science
SUBJECT : Geology

REPORT OF COURSES AUDITED:

SR NO	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING - LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1	Semester I GEL-I.C-1: Fundamentals of Mineralogy	Dr. Meghana S Devli	✓	✓	✓
	GEL-I.C-2A: Earth's Dynamics and Tectonics	Swati S Ghadi	✓	✓	✓
3.	Semester III GEL-III.C-5A: Advanced Mineralogy and Geochemistry	Dr. Meghana S Devli	✓	✓	✓
	GEL-III.E-1: Physical Geology	Swati S Ghadi	✓	✓	✓
	GEL-III.E-2: Groundwater and Hydrogeology	Allan Rodrigues	✓	✓	✓
	GEL-III.E-3A: Ore Genesis	Harish Nadkarni	✓	✓	✓
	GEL-III.E-4: Marine Geology	Malcolm Afonso	✓	✓	✓
5.	Semester V GEL-V.C-7 Igneous Petrology	Allan Rodrigues	✓	✓	✓
	GEL-V.E-9 Stratigraphy of India – Part II	Harish Nadkarni	✓	✓	✓
	GEL-V.E-10 Petroleum Geology	Swati S Ghadi	✓	✓	✓
	GEL-V.E-11 Principles of Geophysical Exploration and Mining	Allan Rodrigues	✓	✓	✓

	GEL-V.E-12 Remote Sensing and Digital Image Processing	Malcolm Afonso	✓	✓	✓
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Harish S S Nadkarni
Name and Signature of HOD

Academic Audit Report 2019-2020
Department of Geology

Semester I

GEL-I.C-1: Fundamentals of Mineralogy

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using mineral specimens, crystal models and projections.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Use of projections and models in theory. Real mineral specimens and crystal models were used for the conduct of practical's.

GEL-I.C-2A: Earth's Dynamics and Tectonics

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using structural maps and models.
2. Evaluation: The dates of every assessment was announced at least 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Use of structural models in theory. Geological map solving was used for the conduct of practical's.

Semester III

GEL-III.C-5A: Advanced Mineralogy and Geochemistry

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Problem solving method was employed.

GEL-III.E-1: Physical Geology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using physical models depicting the various features.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Use of models for the conduct of practical's.

GEL-III.E-2: Groundwater and Hydrogeology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Many students were motivated to take up internships in exploration of groundwater techniques at Dip Direction Company Pvt. Ltd and Terra HydroTech Ltd.

GEL-III.E-3A: Ore Genesis

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using ore mineral specimens.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Use of ore-forming mineral specimens were used for the conduct of practical's.

GEL-III.E-4: Marine Geology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using Google Earth and GIS.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Use of Google Earth and GIS were used for the conduct of practical's. A visit to National Institute of Oceanography was followed up as an exposure for the students involving research in Marine Geology.

Semester V**GEL-V.C-7 Igneous Petrology**

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points use of igneous rocks hand specimens and microsections.
2. Evaluation: The dates of every assessment was announced at least 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Igneous rocks hand specimens and microsections was used for understanding of concepts.

GEL-V.E-9 Stratigraphy of India – Part II

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points.
2. Evaluation: The dates of every assessment was announced at least 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Problem solving method was employed for a better understanding of the concepts.

GEL-V.E-10 Petroleum Geology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points.
2. Evaluation: The dates of every assessment was announced at least 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Problem solving method was employed for a better understanding of the concepts.
For getting exposure to the work environment associated with the petroleum Industry a visit to Oil and Natural gas corporation (ONGC), IPSHEM, Betul Goa was organised.

GEL-V.E-11 Principles of Geophysical Exploration and Mining

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points.
2. Evaluation: The dates of every assessment was announced at least 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as

per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.

3. Innovation: Problem solving method was employed for a better understanding of the concepts.

GEL-V.E-12 Remote Sensing and Digital Image Processing

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points and Google Earth and GIS.

2. Evaluation: The dates of every assessment was announced at least 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.

3. Innovation: Use of Google Earth and GIS was done for the conduct of practicals.

Parvatibai Chowgule College of Arts and Science (Autonomous)
ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT
ODD SEMESTER(2019-20)

NAME OF THE PROGRAMME: M.SC (IT)
SUBJECT: COMPUTER SCIENCE

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1.	Data Structure and Algorithms MIT11 Semester:I	Mr. Abhishek Gudekar	58 lectures,Traditional lecture method, Interactive lecture method,Group discussion,Problem Solving,Student Presentation,Experiential Learning ,Case studies,Laboratory Work,Research Paper	Test1:Written, Test2:MCQ Test3: Presentation Test 4:Research paper	Teaching-Learning Processes: Problem Solving method of Teaching,Evaluation Processes:Written,MCQ,Presentation,Research paper
2.	Operating Systems and Networks MIT12 Semester:I	Mr. Gajanan Nial	55 lectures Traditional lecture method, Interactive lecture method,Problem Solving,Student presentation,Experiential Learning ,Case studies, Laboratory work	Test1:Written , Test2:Puzzle solving/ Presentation, Test3: NPTEL Assignments, Test4:Viva	Teaching-Learning Processes:NPTEL courses help students strengthen their foundation in different topics, Evaluation Processes:Occasionally viva conducted through google meet to help students cope with the lockdown, Research Programme:Designing algorithms for Puzzle solving helps students try out different possibilities, analyze each and go for the best performing algorithm

3.	Data Mining MIT31 Semester:III	Mr. Mahesh P. Matha	57 lectures Traditional lecture method, Interactive lecture method, Problem Solving, Experiential Learning, Laboratory Work	Test1:Written test, Test2:Report & Demo, Test3: Viva Test 4:MCQ	Teaching-Learning Processes: Problem Solving method of Teaching Evaluation Processes:Written Test, Group Assignment, Viva, MCQ
4.	Information Retrieval MIT32 Semester:III	Mr. Mahesh P. Matha	57 lectures, Traditional lecture method, Interactive lecture method, Problem Solving, Experiential Learning, Laboratory Work	Test1:Written test, Test2:Viva Test3: Group Assignment Test 4:Written Test	Teaching-Learning Processes: Problem Solving method of Teaching Evaluation Processes:Written Test, Group Assignment, Viva
5.	Computer Graphics MIT34 Semester:III	Mr. Abhishek Gudekar	60 lectures, Traditional lecture method, Interactive lecture method, Group discussion, Problem Solving, Student Presentation, Experiential Learning, Laboratory Work	Test1:Written, Test2:Presentation Test3: Problem Solving Test 4:Project	Teaching-Learning Processes: Problem Solving method of Teaching Evaluation Processes:Written, Presentation, Project, coding
6.	Statistical Computing MIT36 Semester: III	Mr. Mahesh P. Matha	26 lectures, Traditional lecture method, Interactive lecture method, Problem Solving, Experiential Learning, Laboratory Work	Test1:Programming Test, Test2:Written Test	Teaching-Learning Processes: Problem Solving method of Teaching Evaluation Processes:Written Test, Programming Test

Name and Signature of HOD

Parvatibai Chowgule College of Arts and Science (Autonomous)

ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT

ODD SEMESTER (2019-20)

NAME OF THE PROGRAMME: B.SC

SUBJECT: PGDCA

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1.	Multimedia DCAEL-1	Mr. V.C. Kumaresh	42 lectures, Traditional Lecture Method, Interactive Lecture Method, Student Presentation, Laboratory work, Multimedia Tool Demonstrations	Test1:Assignment, Test2:Written test, Test3:Presentation, Test4:Semester End Exam	Teaching-Learning Processes:Demonstrations of various Multimedia tools, Evaluation Processes:Mini projects
2	E learning DCA-EL2	Ms. Ashweta Fondekar	41 lectures,Traditional Lecture Method,Interactive Lecture Method,Student Presentation	Test1:Written Test,Test2:MCQ,Test3: Presentation	Teaching -Learning Processes :Google Classroom,Assignment,Presentation, Evaluation Processes: Written test, MCQ's, Presentation
3	E Commerce DCA-EL5	Ms. Suchitra Bhat	41 lectures, Interactive lecture method,Problem solving,Student presentation,Case studies,Laboratory work	Test1:Presentation, Test2:Written test, Test3:Case study, Test4:Semester End	Teaching -Learning ProcessesUse of ICT in effective delivery of lectures, Evaluation Processes:Test, Case study, Presentation used for Evaluation
4.	Object Oriented Programming DCA11	Mr. D.Prabakaran	43 lectures,Traditional lecture method, Interactive lecture method, Student presentation,Problem Solving,Experiential Learning, Laboratory Work, Assignment	Test1:Written test,Test2:Assignments, Test3:Presentation, Test4:Semester End (SEE)	Teaching-Learning Processes:Google Classroom, Presentations,Evaluation Processes:Problem Solving, Written Test, Assignment, Marking Schemes, Revision

5.	Database Management Systems DCA12	Ms. Clementine Antao	44 lectures,Interactive Lecture Method,Debate,Problem Solving,Student Presentation,Case Studies,Laboratory Work,Other Methods / Innovative	Test1:Written Test Test2:Assignment, Test3:MCQ,Test4:SEM	Teaching-Learning Processes:Google Classroom, Presentation,Evaluation Processes:Written test, Multiple Choice Questions, Assignment.
6.	Client Side Technologies DCA13	Mr. Ian Barreto			

Name and Signature of HOD

Parvatibai Chowgule College of Arts and Science (Autonomous)
ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT (2018-2019)
ODD SEMESTER

NAME OF THE PROGRAMME: B.Sc.
SUBJECT: PHYSICS

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1	SEMESTER: I COURSE TITLE: Introduction to Mathematical Physics COURSE CODE: PHY-I.C-1	Dr. Ashish Desai Ms. Pearl Oliveira	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, Text books • Variance of lectures engaged: -4 • Number and types of modes of teaching used: Traditional Lecture Method, Group Discussion, Problem Solving. • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 2 CA modes used • % of Higher order questions in each assessment mode: 50% in CA written test and 40% in SEE written exam. 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----

				<ul style="list-style-type: none"> • Whether documents furnished were satisfactory: Yes 	
2	<p>SEMESTER: I</p> <p>COURSE TITLE: Mechanics-I</p> <p>COURSE CODE: PHY-I.C-2</p>	Ms. Suvarna Patil	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Text books • Variance of lectures engaged: -4 • Number and types of modes of teaching used: Traditional Lecture Method, Problem Solving, Laboratory work • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 2 CA modes used + SEE • % of Higher order questions in each assessment mode: 30% in CA Written test, 60% in MCQ, 30 % in SEE • Whether documents furnished were satisfactory: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----
3	<p>SEMESTER: III</p> <p>COURSE TITLE: Electromagnetic Theory-I</p>	Mr. Yatin P. Desai	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty:

	<p>COURSE CODE: PHY-III.C-5</p>		<ul style="list-style-type: none"> • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, PPTs, text books • Variance of lectures engaged: -1 • Number and types of modes of teaching used: Traditional Method, Group discussion • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 3 modes used • % of Higher order questions in each assessment mode: 40% in CA written test, 47% in MCQs, 100% in open book exam and 30% in SEE. • Whether documents furnished were satisfactory: Yes 	<p>---</p> <ul style="list-style-type: none"> • Outreach programmes / research done / any other innovation: ----
4	<p>SEMESTER: III</p> <p>COURSE TITLE: Optics</p> <p>COURSE CODE: PHY-E1</p>	Dr. Ananya Das	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, text 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning- Evaluation by faculty: --- • Outreach programmes / research done / any other innovation:

			<p>books, Links to OCW, Journal Articles</p> <ul style="list-style-type: none"> • Variance of lectures engaged: 0 • Number and types of modes of teaching used: Traditional Method, Interactive method, Group discussion, problem solving, Laboratory work • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 3 modes used [2CA +1SEE] • % of Higher order questions in each assessment mode: 30% in CA Written Test mode 40% in CA MCQ Mode, 40% in SEE. • Whether documents furnished were satisfactory: Yes 	----
5	<p>SEMESTER: III</p> <p>COURSE TITLE: Modern Physics</p> <p>COURSE CODE: PHY-E2</p>	<p>Dr. Ashish Desai</p> <p>Ms. Pearl Oliveira</p>	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, Journal Articles • Variance of lectures engaged: -4 • Number and types of modes of teaching used: Traditional Method, Interactive method, Group Discussion, Problem Solving, Laboratory work 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: Using peer instruction teaching method. • Evaluation processes: Outreach programmes / research done / any other innovation: ----

			<ul style="list-style-type: none"> • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether more than 04 assessment modes used: No • % of Higher order questions in each assessment mode: 60% in MCQs, 20% in CA written test, 15% SEE. • Whether documents furnished were satisfactory: Yes 	
6	<p>SEMESTER: III</p> <p>COURSE TITLE: Oscillations, Waves and Sound</p> <p>COURSE CODE: PHY-E3</p>	Ms. Pearl Oliveira	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, PPTs, text books • Variance of lectures engaged: -2 • Number and types of modes of teaching used: Traditional Method, Interactive method, Problem Solving, Laboratory work • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 3 modes used. • % of Higher order questions in each assessment mode: 40% in CA written test, 30% in open book exam, 30 % in MCQs and 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: Resources (Presentation, classroom notes, book references) were uploaded to Google Classroom. All lectures involved traditional and interactive lecture method, problem solving • Evaluation Process : 3 different modes of assessment were used. Date of assessment was announced well in

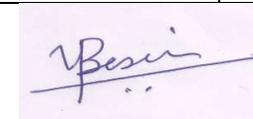
				<ul style="list-style-type: none"> • Whether documents furnished were satisfactory: Yes 	<p>advance along with the marking scheme.</p> <ul style="list-style-type: none"> • Outreach programmes / research done / any other innovation: ---
7	<p>SEMESTER: V</p> <p>COURSE TITLE: Electromagnetic Theory-II</p> <p>COURSE CODE: PHY-V.C-7</p>	Mr. Yatin P. Desai	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, PPTs, text books, Audio Visual resources • Variance of lectures engaged: 0 • Number and types of modes of teaching used: Traditional Method, Problem Solving, Laboratory work. • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 2 CA modes used + SEE. • % of Higher order questions in each assessment mode: 33% and 53 % respectively in CA1 and CA2, written test and SEE 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ---

				<p>50% in written exam, 48% in SEE</p> <ul style="list-style-type: none"> • Whether documents furnished were satisfactory: Yes 	
8	<p>SEMESTER: V</p> <p>COURSE TITLE: Solid State Physics</p> <p>COURSE CODE: PHY-E9</p>	Dr. Ananya Das	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, PPTs, Links to open course wares, text books, Audio Visual Resources • Variance of lectures engaged: 00 • Number and types of modes of teaching used: Traditional Method, Interactive method, Problem solving, Laboratory work, Competency Test • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 2 CA modes used + SEE. • % of Higher order questions in each assessment mode: 40% each in 2 CA modes, 30% each in 2 written test modes, 40% in SEE. • Whether documents furnished were satisfactory: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----

9	<p>SEMESTER: V</p> <p>COURSE TITLE: Thermodynamics and Statistical Mechanics</p> <p>COURSE CODE: PHY-E10</p>	<p>Dr. Ashish Desai</p> <p>Ms. Pearl Oliveira</p>	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Journal Articles • Variance of lectures engaged: -3 • Number and types of modes of teaching used: Traditional Method, Group discussion. • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 3 CA Modes used + SEE. • % of Higher order questions in each assessment mode: 25% in CA1: written Test, 40% in CA2 MCQ, 100% in CA3 Assignment, 18% in SEE • Whether documents furnished were satisfactory: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----
10	<p>SEMESTER: V</p> <p>COURSE TITLE: Electronics-II</p> <p>COURSE CODE: PHY-E11</p>	<p>Mr. Suvarna Patil</p>	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: ---

			<ul style="list-style-type: none"> • Different types of resources provided: Lecture notes, PPTs, Text books • Variance of lectures engaged: -3 • Number and types of modes of teaching used: Traditional Lecture Method, Interactive Lecture Method, Problem Solving, Laboratory work • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 2 CA modes used + SEE. • % of Higher order questions in each assessment mode: 53.3% in CA written test, 56.5% in MCQs and 42.4% in SEE. • Whether documents furnished were satisfactory: Yes 	<ul style="list-style-type: none"> • Outreach programmes / research done / any other innovation: ----
11	<p>SEMESTER: V</p> <p>COURSE TITLE: Elementary Physics I</p> <p>COURSE CODE: PHY-I1</p>	<p>Ms. Pearl Oliveira</p> <p>Dr. Ashish Desai</p>	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, PPTs, text books • Variance of lectures engaged: -1 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----

			<ul style="list-style-type: none"> • Number and types of modes of teaching used: Traditional Lecture Method, Interactive Lecture Method, Problem Solving, Laboratory work • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 3 CA modes used + SEE • % of Higher order questions in each assessment mode: 40% in each mode • Whether documents furnished were satisfactory: Yes 	
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YATIN P. DESAI
Name and Signature of HOD

ParvatibaiChowgule College of Arts and Science (Autonomous)
ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT (2019-20)

NAME OF THE PROGRAMME: _BSc(Semester II/IV/VI)_
SUBJECT: CHEMISTRY

REPORT OF COURSES AUDITED: Head, Department Of Chemistry

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1	Concepts in Physical and Analytical Chemistry CHE-II.C-3	1)KashinathDhumaskar 2)Priyanka Kavlekar	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture powerpoint was uploaded on google classroom 3)Lecture schedule was uploaded on google classroom at the beginning of semester 4) Variance of lecture -06 5) Course and unit rating is just right 6) Variance in number of practicals for all batches- Nil	1)Marking Scheme was disclosed 2)Feedback on assessment was shared with the students 3)Modes of assessment were written test and Assignment 4) No weightage for higher order questions in CA 1	Dr.KashinathDhumaskar had completed only one unit of Physical Chemistry during the entire semester and he was unable to justify this serious lapse on his side
2	Concepts in Organic and Inorganic Chemistry CHE-II.C-4	1)PadminiRaikar(organic Chem) 2)NavitaNaik(Inorganic Chem)	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture powerpoint was uploaded on google classroom 3)Lecture schedule was uploaded on google classroom at the beginning of semester 4) Variance of lecture -06 5) Course and unit rating is just right 6) Variance in number of	1)Sufficient time was given to the students before evaluation and results were declared on time 2)Marking Scheme was disclosed 3)Feedback on assessment was shared with the students 4)Modes of assessment were Assignment and written test 5) No weightage for higher order questions in CA 1	

			practicals for all batches +02	6) CA-I was completely creative testing the confidence level	
3	Comprehensive Chemistry –II CHE-IV.C-6	1) Sachin Kakodkar (Analytical Chem) 2) Mayuri Naik (organic Chem)	1) Interactive learning and power point presentations are employed along with Traditional method 2) Lecture powerpoint was uploaded on google classroom 3) Lecture schedule was uploaded on google classroom at the beginning of semester 4) Lecture variance is -11 5) Course and unit rating is just right 6) Variance in number of practical for batches is -01, -02	1) Sufficient time was given to the students before evaluation and results were declared on time 2) Marking Scheme was disclosed 3) Feedback on assessment was shared with the students 4) Modes of assessment were written test & assignment. 5) 20% of the questions in CA 1 were of higher order	
4	Pharmaceutical Chemistry CHE-IV.E-5	1) Navita Naik 2) Kashinath Dhumaskar	1) Interactive learning and power point presentations are employed along with Traditional method 2) Lecture powerpoint was uploaded on google classroom 3) Lecture variance is -08 4) Course and unit rating is just right 5) Variance in number of practical for all batches is -01	1) Sufficient time was given to the students before evaluation and results were declared on time 2) Marking Scheme was disclosed 3) Feedback on assessment was shared with the students 4) Modes of assessment were Power point presentations and written test	As per the feedback from the students Dr. Kashinath Dhumaskar had given 2 entire units to the students as a CA using power point mode but later he did not explain the concepts clearly to the students and teaching was not systematic.

5	Polymer and Colloid Science CHE-IV.E-6	1)GanpatNaik 2)Sachin Kakodkar	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture powerpoint was uploaded on google classroom 3)Lecture schedule was uploaded on google classroom at the beginning of semester 4)Lecture variance is Nil 5) Course and unit rating is just right 6)Variance in number of practical for batches is Nil	1)Sufficient time was given to the students before evaluation and results were declared on time 2)Marking Scheme was disclosed 3)Feedback on assessment was shared with the students 4)Modes of assessment were written test & assignment/Model making.	
6	Spectroscopic Techniques CHE-IV.E-7	1)LactinaGonsalves 2)KashinathDhumaskar	1)Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2)Lecture powerpoint was uploaded on google classroom/CLAAP 3)Lecture schedule was uploaded on google classroom/CLAAP at the beginning of semester 4)Variance of lecture -06 5) Course and unit rating is just right 6)Variance in number of practical for all batches is Nil	1)Sufficient time was given to the students before evaluation and results were declared on time 2)Marking Scheme was disclosed 3)Feedback on assessment was shared with the students 4)Modes of assessment were Numericals & written test.	Dr. Lactina Gonsalves has employed the technique of POGIL in teaching the course for 10% of the lectures. As per the complaints from students, Dr.Kashinath Dhumaskar had not covered the syllabus systematically and hence the students had lot of difficulties in answering the Summative exam. However the concerned teacher claimed to have explained the important concepts to the students

7	Advanced Chemistry –II CHE-VI.C-8	1)GanpatNaik(Analytical Chem) 2)MayuriNaik(organic Chem)	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture powerpoint was uploaded on google classroom 3)Lecture schedule was uploaded on google classroom at the beginning of semester 4)Lecture variance is -10 5) Course and unit rating is just right 6)Variance in number of practical for batches is -01	1)Sufficient time was given to the students before evaluation and results were declared on time 2)Marking Scheme was disclosed 3)Feedback on assessment was shared with the students 4)Modes of assessment were written test & assignment/innovative experiments.	Dr. Ganpat Naik assessed a group of students for designing innovative experiments as a part of CA-II
8	Spectroscopic Methods in Organic Chemistry CHE-VI. E-13	1)PadminiRaikar 2)MayuriNaik	1)Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2)Lecture powerpoint was uploaded on google classroom/CLAAP 3)Lecture schedule was uploaded on google classroom/CLAAP at the beginning of semester 4)Variance of lecture -06 5) Course and unit rating is just right 6)Variance in number of practical for all the batches is -01	1)Sufficient time was given to the students before evaluation and results were declared on time 2)Marking Scheme was disclosed 3)Feedback on assessment was shared with the students 4)Modes of assessment were Assignment and Power point presentation	
9	Environmental Chemistry	1)Priyanka Kavlekar 2)RoopaBelurkar	1)Interactive learning and power point presentations are employed	1)Date of declaration of results is not mentioned in	

	CHE-VI. E-14		<p>along with Traditional method and problem solving.</p> <p>2)Resource material was uploaded on google classroom</p> <p>3)Variance of lecture – -05</p> <p>4) Course and unit rating is just right</p> <p>5)Variance in number of practical for all the batches is Nil</p>	<p>the audit form</p> <p>2)Marking Scheme was disclosed</p> <p>3)Modes of assessment were Presentation and Assignment</p>	
10	Selected Topics in Inorganic Chemistry CHE-VI. E-15	<p>1)Lactina Gonsalves</p> <p>2)Roopa Belurkar</p>	<p>1)Interactive learning and power point presentations are employed along with Traditional method and problem solving.</p> <p>2)Lecture powerpoint was uploaded on google classroom/CLAAP</p> <p>3)Lecture schedule was uploaded on google classroom/CLAAP at the beginning of semester</p> <p>4)Variance of lecture – 08</p> <p>5) Course and unit rating is just right</p> <p>6)Variance in number of practical for all the batches is -01</p>	<p>1)Sufficient time was given to the students before evaluation and results were declared on time</p> <p>2)Marking Scheme was disclosed</p> <p>3)Feedback on assessment was shared with the students</p> <p>4)Modes of assessment were written test and Assignment</p>	
11	Skill enhancement course in Chemistry CHE-III. SEC-1	<p>1)Priyanka Kavlekar</p> <p>2)Navita Naik</p> <p>3)Kashinath Dhumaskar</p>	<p>1)Interactive learning and power point presentations are employed along with Traditional</p> <p>2)Variance of lecture – 16</p> <p>3) Course and unit rating is just right</p>	<p>1)Sufficient time was given to the students before evaluation and results were declared on time</p> <p>2)Marking Scheme was disclosed</p> <p>3)Feedback on assessment was shared with the students</p> <p>4)Modes of assessment were power point presentations, written test and Practical skills</p>	

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Manjita R Porob

Name and Signature of HOD

Parvatibai Chowgule College of Arts and Science (Autonomous)
ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT
EVEN SEMESTER (2019-20)

NAME OF THE PROGRAMME: B.SC.
SUBJECT: COMPUTER SCIENCE

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1.	Database Management I COM-III.C-3 * Semester:II	Mr. Ian Barreto			
2.	Data Structure COM-II.C-4 Semester II	Mr.D. Prabakaran	39 lectures (Before lockdown), Traditional lecture Method, Interactive lecture method, Problem solving, Experiential learning ,Laboratory work,	Test 1:Written test, Test 2:Assignment (Soft copy of assignment uploaded in the link provided(Google Classroom), Problem Based Assessment, Answer books, Test 3: Problem based Assessment	Teaching-Learning Processes:Google classroom, Presentation, Evaluation Processes:Problem Solving, Written Test, Assignment, Marking Schemes, Rubrics for evaluation, Revision
3.	Database Management II COM-E17 Semester:IV	Ms. Clementine Antao			
4.	Server Side Programming COM-IV.E-7 Semester:IV	Mr. Ian Barreto			
4.	Computer Architecture Design COM-IV.C-6 Semester: IV	Mr. V. C. Kumaresh	38 lectures, Traditional lecture Method, Interactive lecture method, Student presentation, Case studies, Laboratory work, Viva	Test1:Written,Test2: Assignment, Test3:Presentation, Test4:Viva	----
6.	Human Computer Interface	Ms. Diksha Prabhu Khorjuvenkar	41 lectures,Traditional lecture	Test1:Written test, Test 2:MCQ,Test 3:Presentation, Test	Teaching-Learning Processes:Google classroom, Presentation, Whatsapp,

	COM-IV.E-8 Semester IV		Method,Interactive lecture method,Group discussion,Problem solving,Student presentation,Case studies,Laboratory work	4:Problem Based, Question papers and Answer papers,Online submission of PPT,Online submission of Answer sheets	Evaluation Processes:Written test, MCQ, Presentation
7.	Network Security COM- E-13 VI	Ms. Ashweta Fondekar	34 Hour Lectures, Traditional lecture, Interactive lectures,Problem solving, Student presentation	Test 1:Written test, Test 2:MCQ,Test 3:Presentation, Test 4:SEE (Online)	Teaching-Learning Processes:Google classroom, Assignment, Presentation, Mini project, Evaluation Processes:Written test, Multiple choice questions, Presentation
8.	Computer Network COM-VI.C-8 Semester:VI	Dr. Shaila Ghanti	34 (in class)+11(Online)=45 Lectures, Traditional Lecture Method, Interactive Lecture Method, Student Presentation, Laboratory Work, MCQ	Test1:MCQ with short answers,Test2:Design, Construct and Presentation, Test3:Assignment with VIVA,Test4:SEE	----
9.	Multimedia Techniques (Elective) COM-.VI.E-15 Semester :VI	Ms. Vidhya Nadagaddi	36 lectures, Traditional lecture Method, Interactive lecture method, Problem solving, Laboratory work, Assignments	Test1:Written test, Test2:MCQ, Test3:Assignment (Online submission), Question and Answer papers	Teaching-Learning Processes:Google classroom, Assignments, Evaluation Processes :Written test, MCQ, Assignments
10.	Digital Marketing COM-VI. E-16 Semester:VI	Ms. Clementine Antao			

Name and Signature of HOD

Parvatibai Chowgule College of Arts and Science (Autonomous)
ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT
EVEN SEMESTER(2019-20) GEC/SEC/ID

NAME OF THE PROGRAMME: B.SC
SUBJECT: COMPUTER SCIENCE

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1.	E Learning COM-GEC.2 II	Ms. Ashweta Fondekar	41 lectures, Traditional lecture, Interactive lecture method, Group discussion, Student Presentation	Test 1: Written test, Test 2: MCQ+Activities(2), Test 3:Assignment, Test 4:Summative Assessment (Portfolio)	Teaching -Learning Processes:Google Classroom, Assignment, Presentation, Mind maps, demonstration on Powtoon tool, Learning management system (Moodle), Evaluation Processes:Written test, Multiple choice questions, Presentation, Activity on learning management system: Students created course, Assessments, learned to give different permission rights,to assign various roles (teachers, students, co-teacher) etc Activity on Powtoon: Students created professional and fully customized videos/PPT using Powtoon tool on specific topic.
2.	Scilab Programming COM-SEC3 Semester :IV	Ms. Diksha Prabhu Khorjuvenkar	55 lectures, Traditional lecture method, Interactive lecture method, Problem solving,Student presentation Experiential learning	Test1:MCQ,Test 2:Written test,Test 3:Presentation,Test 4:Problem Based, Question papers and Answer papers,Online submission of PPT,Online submission of Answer sheets	Teaching -Learning Processes:Google Classroom,Presentation,Whatsapp, Evaluation Processes :Written test, MCQ, Presentation
4.	Multimedia Techniques (ID) COM-GEC-I Semester :VI	Ms. Vidhya Nadagaddi	37 lectures, Traditional Lecture Method,Interactive Lecture Method,Problem Solving,Activities	Test 1:Written Test, Test2:MCQ, Test3:Activities, Question Paper, Answer paper, Online submission of activities	Teaching -Learning Processes: Google classroom, Activities, Evaluation Processes Written test, MCQ, Activities

Name and Signature of HOD

ParvatibaiChowgule College of Arts and Science (Autonomous)
ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT (2019-2020)

NAME OF THE PROGRAMME : Bachelor of Science
SUBJECT : Geology

REPORT OF COURSES AUDITED:

SR NO	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING - LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
2.	Semester II GEL-II.C-3A: Elementary Petrology	Allan Rodrigues	✓	✓	✓
	GEL-II.C-4: Principles of Stratigraphy and Palaeontology	Swati S Ghadi	✓	✓	✓
4.	Semester IV GEL-IV.C-6: Structural Geology	Harish Nadkarni	✓	✓	✓
	GEL-IV.E-5A: Engineering Geology	Harish Nadkarni	✓	✓	✓
	GEL-IV.E-6A: Optical Mineralogy	Dr. Meghana S Devli	✓	✓	✓
	GEL-IV.E-7: Natural Hazards and Management	Malcolm Afonso	✓	✓	✓
	GEL-IV.E-8: Geotectonics	Allan Rodrigues	✓	✓	✓
6.	Semester VI GEL-VI.C-8 Sedimentary Petrology	Allan Rodrigues	✓	✓	✓
	GEL-VI.E-13 Metamorphic Petrology	Dr. Meghana S Devli Harish Nadkarni	✓	✓	✓
	GEL-VI.E-14: Rock Deformation Microstructures	Dr. Meghana S Devli Magnolia Miranda	✓	✓	✓

	GELVI.E-15: Surveying and Field Geology	Harish Nadkarni Malcolm Afonso	✓	✓	✓
	GEL-VI.E-16 Gemstone Testing and Evaluation	Dr. Meghana S Devli	✓	✓	✓

✓

Harish S S Nadkarni
Name and Signature of HOD

Academic Audit Report 2019-2020
Department of Geology

Semester II

GEL-II.C-3A: Elementary Petrology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using rock specimens.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Rock specimens were used for the conduct of practical's.

GEL-II.C-4: Principles of Stratigraphy and Palaeontology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using fossil specimens.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.

3. Innovation: Use of fossil specimens was done for the conduct of practical's. One day geological field trip to Palolem, Canacona taluka, Goa was undertaken to correlate classroom teaching with field exposure.

Semester IV

GEL-IV.C-6: Structural Geology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using Geological Maps.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Use of geological structural maps, outcrop filling and solving graphical problems was carried out for the conduct of practical's.

Inorder to expose students to studies related to Structural Geology and its applications in field and engineering geology **Guest Lectures cum Demonstration was organised.** The resource person was Dr Mrinal K. Mukerjee, Associate Professor, Department of Applied Geology, Indian School of Mines, Dhanbad.

GEL-IV.E-5A: Engineering Geology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Problem solving method was employed for the conduct of practical's. A visit to Selaulim Dam was carried out for the students.

GEL-IV.E-6A: Optical Mineralogy

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using mineral thin sections.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Use of Petrological Microscope along with software to project mineral on the screen was used for the conduct of practical's.

GEL-IV.E-7: Natural Hazards and Management

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points, using Google Earth and GIS.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Use of Google earth and GIS wasdone for the conduct of practical's.

GEL-IV.E-8: Geotectonics

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Problem solving method was employed for a better understanding of the concepts.

Semester VI

GEL-VI.C-8 Sedimentary Petrology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points and use of sedimentary rocks hand specimens and microsections.
2. Evaluation: The dates of every assessment was announced at least 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Sedimentary rocks hand specimens and microsections was used for understanding of concepts.

GEL-VI.E-13 Metamorphic Petrology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points and Metamorphic rocks hand specimens and microsections.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Metamorphic rocks hand specimens and microsections was used for understanding of concepts.

GEL-VI.E-14: Rock Deformation Microstructures

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Deformation microstructures were identified using a Petrological Microscope.

GELVI.E-15: Surveying and Field Geology

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points. Different survey methods was taught for the students.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Carrying out the different survey methods and preparing a portfolio based on the same.

GEL-VI.E-16 Gemstone Testing and Evaluation

1. Teaching learning: The resources for the said course was uploaded on Google Classroom. The content involved PowerPoint presentations, e-books and reference material. The variance in the lectures was not more than 5%. The teaching methods involved using of blackboard, Power Points and gemstones.
2. Evaluation: The dates of every assessment was announced atleast 15days before the conduct of the examination. The instructions/guidelines were uploaded well in advance before the date of examination. All the examination was conducted as per the guidelines followed by the Examination cell. The continuous Assessments, Semester End Examination as well as the practical Assessments were conducted following the guidelines of the Examination cell of the college.
3. Innovation: Identification of gemstones using the different gemmological instrument was carried out.

Outreach programmes

Students of Geology and Physics as a part of Internship and Non-Evaluative credits prepared plans for villages in Goa with respect to '**Coastal Regulation Zone (CRZ) and Coastal Zone Management & Planning (CRMP) in Goa**'

Third Year Students Projects:

1. Study of hydrogeochemistry of river water and rock samples along River Kushavati, South Goa.
2. Quality assessment of groundwater in Quitol and Canaguinim area in Quepem and Canancona Taluka

Parvatibai Chowgule College of Arts and Science (Autonomous)

ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT

EVEN SEMESTER(2019-20)

NAME OF THE PROGRAMME: M.Sc (IT)

SUBJECT: COMPUTER SCIENCE

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1.	Software Architecture, Design Patterns and Frameworks MIT21 Semester:II	Mr. Mahesh P. Matha	52 lectures,Traditional lecture method, Interactive lecture method,Problem Solving,Student presentation,Experiential Learning , Laboratory work,Research Paper	Test1:Written test, Test2:Group Assignment Test3:Presentation	Teaching-Learning Processes:Problem Solving method of Teaching,Evaluation Processes:Written Test, Research Paper, Presentation
2.	Design and Analysis of Algorithms MIT 22 Semester: II	Mr.Gajanan Nial	48 lectures, Traditional lecture method, Interactive lecture method, Problem Solving,Student presentation,Experiential Learning ,Case Studies , Laboratory work	Test1:Written,Test2: Puzzle solving/ Presentation,Test3: NPTEL Assignments,Test 4:Viva	Teaching-Learning Processes:NPTEL courses help students strengthen their foundation in different topics, Evaluation Processes:Occasionally viva conducted through google meet to help students cope with the lockdown,Research Programme:Designing algorithms for Puzzle solving helps students try out different possibilities, analyze each and go for the best performing algorithm.
3.	Advanced Database Management Systems	Mr. Abhishek Gudekar	54 lectures,Traditional lecture method, Interactive lecture method,Group discussion,	Test 1:Written,Test 2:Presentation,Test 3:MCQ,Test 4:Research Paper	Teaching-Learning Processes: Interactive Lectures with Problem Solving,Evaluation Processes:Modes- Written,Presentation,Research,Project,Research

	MIT23 Semester: II		Problem solving, Student Presentation, Experiential Learning, Case studies, Laboratory work, Research Paper		Programme: Research Paper case study.
4..	Machine Learning MIT24 Semester: II	Mr. Mahesh P. Matha	55 lectures, Traditional lecture method, Interactive lecture method, Problem solving, Experiential Learning, Laboratory work.	Test1: Group Assignment, Test2: Written Test, Test3: Viva	Teaching-Learning Processes: Problem Solving method of Teaching, Evaluation Processes: Written Test, Group Assignment, Viva

Name and Signature of HOD

Parvatibai Chowgule College of Arts and Science (Autonomous)

ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT

EVEN SEMESTER (2019-20)

NAME OF THE PROGRAMME: B.SC

SUBJECT: PGDCA

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING - LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1	Digital Marketing DCA-EL1	Mr V.C. Kumaresh	36 lectures (Uploaded the remaining lectures notes and videos demonstration links online), Traditional lecture method, Interactive lecture method, Student presentation, Laboratory work, Digital Marketing tool demonstration	Test1:Written test, Test2:Assignments, Test3:Presentation, Test4:Semester End(Openbook online)	Teaching-Learning Processes: Demonstration of Digital Marketing tools, Evaluation Processes: Real time implementation & Analysis of Digital Marketing
2	Python Programming DCA-EL3 Semester II	Mr. D Prabakaran	31(Before lockdown), Traditional Lecture Method ,Interactive Lecture Method, Problem Solving, Experiential Learning (List of problems were solved as part of Lab Component), Laboratory work	Test1:Written test, Test2:Assignment, Test3:Online Presentation, Test4: Online exam	Teaching-Learning Processes: Google classroom, Presentation, Evaluation Processes: Problem Solving, Written Test, Assignment, Marking Schemes, Rubrics for evaluation, Revision
3	Software Testing DCAEL8 Semester :II	Ms. Judith Barreto			

4	Computer Network DCA21 Semester :II	Mrs. Suchitra Bhat	35 (Till 14 th March 2020) before the lockdown,Traditional Lecture Method,Interactive Lecture method, Group discussion,Problem Solving,Student presentation,Experiential Learning, Laboratory work	Test1:Presentation,Test2:MCQ, Test3:Assignment, Test4:Written exam online	Teaching-Learning Processes:Due to lockdown all practicals could not be done. For one TLE setting up a wireless access point, a tutorial was uploaded and students were asked to follow all the steps as shown. For Practical evaluation 4 on Wireshark, I gave the screenshots of the captured packets and asked students to analyze the packets, mainly TCP to understand different fields of TCP header. Evaluation Processes:Online submission method was followed . However few submissions were done late as students had network problem
5	Software Engineering DCA22 Semester :II	Ms. Judith Barreto			

Name and Signature of HOD

Parvatibai Chowgule College of Arts and Science (Autonomous)
ACADEMIC AUDIT REPORT BY HEAD OF DEPARTMENT (2019-2020)
[EVEN SEMESTER]

NAME OF THE PROGRAMME: B.Sc.
SUBJECT: PHYSICS

REPORT OF COURSES AUDITED:

SR NO.	COURSE TITLE, COURSE CODE, SEMESTER	NAME OF THE FACULTY MEMBER	REPORT ON TEACHING -LEARNING	REPORT ON EVALUATION OF COURSE	REPORT ON INNOVATION
1	SEMESTER: II COURSE TITLE: Heat and Thermodynamics COURSE CODE: PHY-II.C-3	Mr. Yatin P. Desai	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, PPTs, Links to open course wares. • Variance of lectures engaged: -4 • Number and types of modes of teaching used: Traditional Method, Text books, Audio Visual Resources • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 02 CA modes used + SEE. • % of Higher order questions in each assessment mode: 33 % and 53% in MCQ I and II respectively, 50% 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----

				<p>in Assignments, 44% in SEE</p> <ul style="list-style-type: none"> • Whether documents furnished were satisfactory: Yes 	
2	<p>SEMESTER: II</p> <p>COURSE TITLE: Electricity and Magnetism</p> <p>COURSE CODE: PHY-II.C-4</p>	Dr. Ananya Das	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, Links to OCW, Text books • Variance of lectures engaged: -2 • Number and types of modes of teaching used: Traditional Lecture Method, Interactive Lecture Method Problem solving, Problem Solving, Competency test • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 2 CA modes used + SEE • % of Higher order questions in each assessment mode: 40% in each CA 1 (MCQ) mode, 30% in each Written test mode, 40% in SEE. • Whether documents furnished were satisfactory: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ---

3	<p>SEMESTER: IV</p> <p>COURSE TITLE: Quantum Mechanics</p> <p>COURSE CODE: PHY-IV.C-6</p>	Dr. Ashish Desai	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Text books. • Variance of lectures engaged: - 10 • Number and types of modes of teaching used: Traditional Lecture Method, Interactive Lecture method, Group discussion, Problem solving • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 3 CA modes + SEE • % of Higher order questions in each assessment mode: CA I MCQ-I: 70%, CAII Assignments: 100%, CAII Written exam: 50;, SEE: 90% • Whether documents furnished were satisfactory: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: Using peer instruction teaching methodology Evaluation processes.:
4	<p>SEMESTER: IV</p> <p>COURSE TITLE: Electronics-I</p> <p>COURSE CODE: PHY-E5</p>	Mr. Yashwant Desai	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: ---

			<ul style="list-style-type: none"> • Different types of resources provided: Lecture notes, PPTs, Text books. • Variance of lectures engaged: -8 • Number and types of modes of teaching used: Traditional Method, Problem solving. • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 2 CA modes used +SEE • % of Higher order questions in each assessment mode: 40% in MCQs, 30% in written test, 40% SEE • Whether documents furnished were satisfactory: Yes 	<ul style="list-style-type: none"> • Outreach programmes / research done / any other innovation: ----
5	<p>SEMESTER: IV</p> <p>COURSE TITLE: Introduction to Error Analysis</p> <p>COURSE CODE: PHY-E18</p>	Ms. Pearl Oliveira	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, Links to OCW, Text books. • Variance of lectures engaged: -10 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning- Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ---

			<ul style="list-style-type: none"> • Number and types of modes of teaching used: Traditional Lecture Method, Interactive Lecture Method, Problem Solving, Laboratory work • Suggestions offered for revision of course if any:--- 	<p>theory & or practical meets the requirement as per examination cell: Yes</p> <ul style="list-style-type: none"> • Whether more than 04 assessment modes used: 4 modes used (Assessment through all CA Modes) • % of Higher order questions in each assessment mode: 45% in Open Book Test, 30% in Assignment, 30% in Problem Based Solving, 30% in E-poster presentation. • Whether documents furnished were satisfactory: Yes 	
6	<p>SEMESTER: IV</p> <p>COURSE TITLE: Properties of Matter and Acoustics</p> <p>COURSE CODE: PHY-E4</p>	<p>Ms. Pearl Oliveira</p> <p>Ms. Suvarna Patil</p>	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, Link to OCW, Text Books • Variance of lectures engaged: - 10 • Number and types of modes of teaching used: Traditional Lecture Method, Interactive 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----

			<p>Lecture Method, Problem Solving, Laboratory work</p> <ul style="list-style-type: none"> • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether more than 04 assessment modes used: 3 CA modes used + SEE • % of Higher order questions in each assessment mode: 40% in written test, 33% in MCQs, 33% in Assignments, 40% in SEE. • Whether documents furnished were satisfactory: Yes 	
7	<p>SEMESTER: VI</p> <p>COURSE TITLE: Atomic and Molecular Physics</p> <p>COURSE CODE: PHY-VI.C-8</p>	Dr. Ashish Desai	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, Text books. • Variance of lectures engaged: -8 • Number and types of modes of teaching used: Traditional Method, Group discussion, Laboratory work. • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 3 CA modes used + SEE • % of Higher order questions in each assessment mode: 40% in MCQ, 25% in 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: • Outreach programmes / research done / any other innovation: -----

				<p>Written test 0% in Assignments and 30%, SEE.</p> <ul style="list-style-type: none"> • Whether documents furnished were satisfactory: Yes 	
8	<p>SEMESTER: VI</p> <p>COURSE TITLE: Mechanics-II</p> <p>COURSE CODE: PHY-E13</p>	Mr. Yatin P. Desai	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, Text books, • Variance of lectures engaged: -8 • Number and types of modes of teaching used: Traditional Lecture Method, Interactive Lecture Method, Problem Solving, Laboratory work Method. • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 2 CA modes used + SEE • % of Higher order questions in each assessment mode: 33% in MCQ1, 53% in MCQ2 and 44% in SEE. • Whether documents furnished were satisfactory: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----

9	<p>SEMESTER: VI</p> <p>COURSE TITLE: Nuclear and Elementary Particle Physics</p> <p>COURSE CODE: PHY-E14</p>	<p>Dr. Ananya Das</p> <p>Dr. Ashish Desai</p>	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, Links to OCW, Text Books, Journal Articles • Variance of lectures engaged: 0 • Number and types of modes of teaching used: Traditional Lecture Method, Interactive Lecture method, Problem Solving, Laboratory work. • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 3 CA modes used + SEE • % of Higher order questions in each assessment mode: 40% in MCQ Test, 30% in Written Test, 30% in Assignments, 40% in SEE. • Whether documents furnished were satisfactory: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----
10	<p>SEMESTER: VI</p> <p>COURSE TITLE: Introduction to Special Theory of Relativity</p> <p>COURSE CODE: PHY-E15</p>	<p>Ms. Suvarna Patil</p>	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning-Evaluation by faculty: --- • Outreach programmes /

			<ul style="list-style-type: none"> • Different types of resources provided: Lecture notes, Text Books. • Variance of lectures engaged: - 14 • Number and types of modes of teaching used: Traditional Lecture Method, Interactive Lecture Method, Problem Solving, Laboratory work • Suggestions offered for revision of course if any:--- 	<ul style="list-style-type: none"> • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets the requirement as per examination cell: Yes • Whether more than 04 assessment modes used: 3 CA modes used + SEE • % of Higher order questions in each assessment mode: 53.3% in CA written test, 66.6 % in CA MCQ test, 30% in in CA Assignments, 59.5% in SEE • Whether documents furnished were satisfactory: Yes 	<p>research done / any other innovation: ----</p>
11	<p>SEMESTER: VI</p> <p>COURSE TITLE: Elementary Physics II</p> <p>COURSE CODE: PHY-I2</p>	<p>Ms. Pearl Oliveira</p> <p>Mr. Yashwant Desai</p>	<ul style="list-style-type: none"> • Whether the course resources were uploaded on CLAAP/Google classroom: Yes • Sufficient resources were provided: Yes • Different types of resources provided: Lecture notes, , Links to open course wares, Text Books • Variance of lectures engaged: -12 	<ul style="list-style-type: none"> • Whether Assessment dates & modes declared in advance: Yes • Whether marking scheme discussed / explained / uploaded: Yes • Weightage of marks justified: Yes • Whether number of assessments conducted for theory & or practical meets 	<ul style="list-style-type: none"> • Innovations done at Teaching - Learning- Evaluation by faculty: --- • Outreach programmes / research done / any other innovation: ----

			<ul style="list-style-type: none"> • Number and types of modes of teaching used: Traditional Lecture Method, Interactive Lecture method, Problem Solving, Student Presentation, Laboratory work. • Suggestions offered for revision of course if any:--- 	<p>the requirement as per examination cell: Yes</p> <ul style="list-style-type: none"> • Whether more than 04 assessment modes used: 3 CA modes used + SEE • % of Higher order questions in each assessment mode: 23% in CA MCQ test, 20% in PPT Presentation, 30% in Assignment, and 40% in SEE • Whether documents furnished were satisfactory: Yes 	
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YATIN P. DESAI
Name and Signature of HOD