Academic Audit Report

2018-19

PHYSICAL AND EARTH SCIENCES,
PARVATIBAI CHOWGULE COLLEGE OF ARTS AND SCIENCE, AUTONOMOUS, MARGAO-GOA
SUBMITTED BY:
DR.(MS).SAMEENA FALLEIRO
DEAN – PHYSICAL AND EARTH SCIENCES
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1. Introduction

The Academic Audit of the Physical and Earth Sciences (PES) for the Academic Year 2018-2019 was conducted in the month of March 2019 for the Odd Semesters i.e 1st, 3rd and 5th and in the month of April 2019 for the Even Semesters i.e 2nd, 4th and 6th. The Heads of the departments (HODs) conducted the Academic Audit for their respective departments. The Audit Form was circulated to all faculty members of the departments and they were asked to submit the duly filled in form along with the necessary documentary evidence to their respective HODs at the time of Audit. Course Co-ordinators, did the Audit for some departments. Besides, the Dean also audited some faculty from other departments.

All HODS were the Audit Panel Members. All Faculty members actively participated and cooperated in this exercise. This Audit Report is a compilation of all the Individual Department Faculty Audits and it consolidates the findings and puts forth the suggestions and area of improvements possible in the future.

It may be noted that the Audit in the Mathematics Department has not been conducted/submitted in spite of repeated reminders to the HOD/Faculty.

Note that the Consolidated Academic Report for Odd and Even Semesters is given in the end as Appendix –I and Appendix-II respectively and Appendix-III contains the signatures of the Academic Audit Panel Members/HODs.

OBSERVATIONS/COMMENTS AS FOLLOWS:

TEACHING –LEARNING:

Departments are using the following TL Methods

- Use of ICT based Blended Learning Approach

  Faculty resort to use of Presentation techniques namely using S/W like Power Point presentations along with Traditional method during classroom teaching.

- Use of Interactive methods like Q&A; Discussions, Case Studies etc are encouraged.
- New methods like Flipped Learning & POGIL were also used.
- Out of Classroom ICT usage is in the form of LMS like Google Classroom and CLAAP
- There was also usage of Flipped Learning; Identifying some students as Mentors to mentor weak students these Student mentors were assigned to weaker students for better understanding of concepts.; Use of Audio-Video Visuals;
- Field Visits
- Final year projects done wrt Community benefit, inculcating scientific temper, research and latest technologies.

EVALUATION & ASSESSMENT:

- The Continuous Evaluation process is followed in the laboratory by all departments.
- Maintenance of all practical records was kept. This is maintained either in an Ejournal format or in other as specified by respective departments and Faculty.
- Mini projects, live demonstrations, creation of models etc are some innovative means that Faculty have used.
- Sufficient time was given to the students before the Practical and Continuous internal Assessments
- Results were declared timely
- Marking Scheme was disclosed
- Feedback on assessment was shared with the students i.e the Progress of CA & PA was discussed within a week's time with students
- Multiple Modes of assessment were used. However, the written test & MCQ were most widely used.

OVERALL COMMENTS:

- Fundamental rules and regulations of the College and Examination Cell have been adhered to by all PES Department Faculty.

- Students are given good exposure to state of art practical work/demonstrations/live projects etc. and it is further enhanced by linking internships etc.

- Totackle the problem of mass absenteeism of students in some instances, the Faculty should mark all the students as absent when the lecture/contact hour is a scheduled one and teacher is present.

- The Course Units that are considered too heavy or too light must be referred to the Board of Studies for revision.

- To encourage the faculty to provide other learning resources to students, teaching methods that support such use such as the Flipped classroom and POGIL (Process Oriented Guided Inquiry Learning) and other methods should be introduced time to time.

- Training programmes or workshop should be conducted to enable Faculty to use such teaching-learning methods.

- To bring about uniformity in the interpretation of the various teaching-learning methodologies, the IQAC (Internal Quality Assurance Cell) prepared handbook of teaching methods to be used to ensure uniformity of its interpretation and meaning.

- Each Department should monitor and document the methods used by their faculty members for the purpose of continuous assessment.

- The Faculty members should participate in conferences, workshops etc. during non-instructional days or during vacations; they should also record student attendance for field trips, competitions etc.

APPENDIX -1

COMPILED ACADEMIC AUDIT REPORTS OF THE HEAD OF DEPARTMENTS – ODD SEMESTER (2018-2019)

Parvatibai Chowgule College of Arts and Science (Autonomous)

NAME OF THE PROGRAMME: B.Sc(Semester I/III/V)

DISCIPLINE: PHYSICAL AND EARTH SCIENCES

CONSOLIDATED REPORT OF COURSES AUDITED:

SN	Course Title, Course Code, Semester	Name Of The Faculty Member	Report On Teaching -Learning	Report On Evaluation Of Course	Report On Innovation
I	**CHEMISTRY**				
1	General Physical and Inorganic Chemistry CHE-I.C-1	1)Manjita Porob 2)Anurag Naik	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture Power Point 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 Variance in contact Hours of Practical for all batches--06	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 5) No weightage for higher order questions in CA 1 6) CA-II was completely applicative	Nil
2	General Organic and Inorganic Chemistry CHE-I.C-2	Padmini Raikar Anurag Naik	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture Power Point was uploaded on Google classroom	1)Sufficient time was given to the students before evaluation and results were declared on time 2)Marking Scheme	

			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-01 Variance in contact Hours of Practical for all batches--06	was disclosed 3)Feedback on assessment was shared with the students 4)Modes of assessment were written test and Assignment 5) No weightage for higher order questions in CA 1	
3	Comprehensive Chemistry –I CHE-III.C-5	Sachin Kakodkar Navita Naik	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture Power Point 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 -Nil 7) Variance in number of contact hours for practical of all batches is 08 hours	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 & MCQ 5) No questions in CA 1 were of higher order	NIL
4	Name Reaction and Synthetic Methodologies CHE-III.E-1	Padmini Raikar Mayuri Naik	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture Power Point was uploaded on Google classroom 3)Lecture schedule was uploaded on Google classroom at the beginning of semester 4)Lecture variance is -01 5) Course and unit rating	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	

			is just right 6)Variance in number of practical for all batches is 02 7) Variance in number of contact hours for practical batches is 08 hrs	written test & Assignment. 5) 0% of the questions in CA I were of higher order	
5	Surface Chemistry and Catalysis CHE-III.E-3	Dr. Sachin Kakodkar Dr. Ganpat Naik	1) Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2) Lecture Power Point and notes was uploaded on Google classroom 3) Lecture schedule was uploaded on Google classroom at the beginning of semester 4) Variance of lecture is 0 5) Course and unit rating is just right 6) Variance in number of practical for all the batches is 0 7) Variance in number of contact hours for practical batches is as follows: Batch I & IV…08 Batch II & III…10	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 MCQ. 5) 20% questions in CA 1 and CA 2 were of higher order	NIL
6	Bioinorganic Chemistry CHE-III.E-4	1)Lactina Gonsalves 2)Anagha Patil	1) Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2)Lecture Power Point 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 5) Course and unit rating is just right	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& MCQ	Dr. Lactina Gonsalves has employed the technique of POGIL in teaching the course for 5% of the lectures.

			6)Variance in number of practical for all batches is Nil 7) Variance in number of contact hours for practicals Batch 1, 2,3…06 Batch 4…..08	5) 30% and 40% of the questions were of higher order In CAI &CAII respectively	
7	Advanced Chemistry –I CHE-V.C-7	1)Manjita Porob 2)Anurag Naik	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture Power Point 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 7) Variance in number of contact hours in practical for all batches is 08	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 , written test and Problem solving 5)CA III was completely applicative	NIL
8	Heterocyclic Chemistry CHE-V. E-9	Mayuri Naik	1) Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2)Lecture Power Point was uploaded on Google classroom 3)Lecture schedule was uploaded on Google classroom at the beginning of semester 4)Variance of lecture –+01 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 ,written test and MCQ 5)20% QESTIONS	

			practical for all the batches is 01 7) Variance in number of contact hours for practicals is as follows: Batch 1…10 2…08 3…08 4…06	IN CA III were of higher order	
9	Nanomaterial and Solid state Chemistry CHE-V. E-10	Dr. Ganpat Naik Ms. Anagha Patil	1) Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2) Lecture Power Point and notes was uploaded on Google classroom 3) Lecture schedule was uploaded on Google classroom at the beginning of semester 4) Variance of lecture is -02 5) Course and unit rating is just right 6) Variance in number of practical for all the batches is -01 7) Variance in number of contact hours for all the practical batches is -08	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, MCQ and Model making/assignment 5) 20% questions in CA 1 and CA 2 were of higher order	On the basis of solid state chemistry students prepared models
10	Organometta lic Chemistry CHE-V. E-11	1)Lactina Gonsalves 2)Navita Naik	1) Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2)Lecture Power Point was uploaded on Google classroom/CLAAP 3)Lecture schedule was uploaded on Google classroom/CLAAP at the beginning of semester 4)Variance of lecture –	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	

			Nil 5) Course and unit rating is just right 6)Variance in number of practical for all the batches is Nil 7) Variance in number of contact hours for practicals for all batches is as follows: Batch I &II…06 Batch III &IV..08	written test, Assignment and MCQ 5)40% of questions from CA-I & CA-III were of higher order.	
II	**GEOLOGY**				
1	GEL-I.C-1 Fundamentals of Mineralogy	Meghana S Devli (Theory& Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. Resources provided reference books	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Conduct of SEE • Progress of CA, SEE & PA was discussed within a weeks time with students	• Use of Audio-video.
2.	GEL-I.C-2A Earth's Dynamics and Tectonics	Allan Rodrigues (Theory) Swati Ghadi (Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Progress of CA, SEE & PA was discussed within a weeks time with students	• Use of Audio-video

3.	GEL-III.C-5 Optical and Systematic Mineralogy	Meghana S Devli (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, interactive sessions, Fieldwork, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA & PA was discussed within a weeks time with students	Use of self-prepared optical indicatrix models
4.	GEL-III.E-1 Physical Geology	Swati Ghadi (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA & PA was discussed within a weeks time with students	
5.	GEL-III.E-2 Groundwater and Hydrogeology	Allan Rodrigues (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA & PA was discussed within a weeks time with students	Use of Audio Video visuals
6.	GEL-111.E-3 Engineering	Magnolia Miranda (Theory &	• Completed the syllabus on time • About 90% contact	• Conduct of CA's at regular intervals. • Besides traditional	

	Geology	Practical)	hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA & PA was discussed within a weeks time with students	Use of Audio-Video Visuals
7.	GEL-III.E-4 Marine Geology	Malcolm Afonso (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA, SEE & PA was discussed within a weeks time with students	Use of Audio-Video Visuals Use of Google Earth Visit to NIO, Dona Paula Student mentors were assigned to weaker students for better understanding of concepts.
8.	GEL-V.C-7 Igneous Petrology	Magnolia Miranda (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA, SEE & PA was discussed within a weeks time with students	Use of Audio-Video Visuals
9.	GEL-V.E-9 Stratigraphy of India – Part II	Meghana S Devli (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group	Students prepared documentary films based on Indian Stratigraphy

		HSS Nadkarni (Theory)	classroom. • Resources provided reference books, e-books, research papers	discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals. • Assessment of SEE • Progress of CA & PA was discussed within a weeks' time with students	topics.
10.	GEL-V.E-10 Petroleum Geology	Swati Ghadi (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practical's • Assessment of SEE • Progress of CA & PA was discussed within a week's time with students	Hands on training in systematic core logging using cores of boreholes as per industry requirement. Shared Links of YouTube videos of onsite activities related to petroleum industries.
11.	GEL-V.E-11 Principles of Geophysical Exploration	Swati Ghadi & Allan Rodrigues (Theory) Swati Ghadi (Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals. • Progress of CA & PA was discussed within a week's time with students	Hands on training in systematic core logging using cores of boreholes as per industry requirement. Visit to Sanquelim mine. Shared Links of YouTube videos of onsite activities related to petroleum industries.

12.	GEL-V.E-12 Remote Sensing and GIS Applications	Malcolm Afonso (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals. • Progress of CA & PA was discussed within a week's time with students	Hands on training on QGIS. Use of Google Earth. Student mentors were assigned to weaker students for better understanding of concepts.
12.	Projects				All projects were based on community outreach viz: 1. A study of the Temporal variation in groundwater quality in the villages of Velsao and Cansaulim in South Goa 2. Geophysical Surveying and Rainwater Harvesting System for Parvatibai Chowgule College of Arts & Science Autonomous 3. Investigation of Landslide affected at Borim-Khandepar, Ponda 4. Groundwater analysis in Nessai Industrial area
III	**COMPUTER SCIENCE**				
1	COM-I.C-1 Mathematical foundation of	Mr. Amar Naik	42 Lectures. Uploaded on Google	3 different modes. Minimum 2. All practicals done.	

	Computer Science – I		Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment,	SEE completed on time.	
2	COMI.C-2 *Introduction to Programming	D. Prabakaran	40 Lectures. Uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy,Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment	Minimum 2 CA. Conducted 3. Practical done E-journal. SEE completed on time.	

3	COM-III.C-5 * Data Base Management Systems	Mr. Ian Barreto	43 Lectures. Uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment, Attendance uploaded.	2 CA's Assignments on classroom. All practical done. Practical on Database Server. SEE completed on time.	Mini Project as part of evaluation interlinking different courses.
4	COM-III.E-1 Software Engineering	Dr. Sameena Falleiro	46 Extra lectures uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment, Attendance	Best 2 of 3 CA's. Some units of Theory were done. Mini Projects in practical. CA on classroom. All practical done. E journal done. SEE completed on time.	Gave Research paper to read.

			uploaded.		
5	COM-III.E-2 Digital Logic Design				
6	COM-III.E-4 Web Designing	Mr. V.C Kumaresh/Mr. Ian Barreto (Practical)	43 Lectures uploaded on Google Classroom and maintained hard copy. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment, Attendance uploaded	3 CA's. Best 2 taken. Hard copy maintained. SEE completed on time. Demos given for all units in syllabus.	
7	COM-V.C-7 * Operating Systems	Mrs. Suchitra Bhat	44 Lectures. uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course	4 CA's done. Best of 3 taken. Practicals all done. E journal maintained. SEE completed on time..	Comments given as feedback with respect to assignments uploaded in classroom

			Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment,		
8	COM-V.E-9 Embedded Systems	Mr. V.C. Kumaresh	46 Lectures uploaded and maintained on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment, Attendance uploaded.	3 CA's. Best 2. All hard copies. Practical done. Hard copy. SEE completed on time	.Brainstorming session to automate new ideas. T.Y, Out of 9 projects, 5 projects on Embedded systems.
9	COM-V.E-10 Mobile Application Development	Mrs. Surekha Patil	41 Lectures uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and	4 CA's done. Best of 3. Practicals all done.SEE question paper filed. Written exam.Mini project as one of the evaluation.	Mini project as one of the evaluation.

			learning Outcome. Class policies, Schedule of assessment,		
10	COM- V.E-12 Software Testing	Ms. Judith Barreto	40 Lectures uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Schedule of assessment, Attendance uploaded.	4 CA's done. Documents maintained.E journal maintained. SEE question paper.	
11	SYBA Cyber Security	Mrs. Surekha Patil	49/60 Lectures uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of	3 CA's done. Best 2 . uploaded on classroom. No practical for this course. SEE completed on time.	Students took up study of online crimes in Goa & all over India.

			assessment, Attendance uploaded. Group discussion done.		
IV	PGDCA				
1	DCA11 Object Oriented Programming	Mr. Amar Naik	43 Lectures uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment,	4 CA's considered best3. 1 SEE exam. Assignment & presentation. Online submission. Marking scheme given.Extra practicals taken. Practical question paper recorded. Online submission & Journals. SEE completed on time.	Before starting new topic, revision of previous unit
2	DCA12 DataBase Management Systems	Mrs. Neeta Dhopeshwarkar	46 Lectures. uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme,	4 CA's. Best 3 considered. Practicals all done. Mini project given.	

			Objective and learning Outcome. Class policies, Schedule of assessment, Attendance uploaded.		
3	DCA13 Client Side Technologies	Mr. D Prabakaran	43 Lectures . uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment, Attendance uploaded.	3 CA's, Schedule uploaded, marking scheme given. E Journal uploaded.	Live website development as part of CA.
4	EL1. Multimedia	Mrs. Neeta Dhopeshwarkar	45 Lectures. Uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment	3 CA's done. Question papers are filed. All practicals done. E journal. Analyze content of various media & encourage group discussions.	Students made videos for department. Video for socially relevant topics.

			Scheme,Objective and learning Outcome.Class policies,Schedule of assessment, Attendance uploaded		
5	EL2. E-Learning	Dr.SameenFallerio	45 Lectures uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment, Attendance uploaded. Group discussion done.	4 CA's. Different modes. Some CA printout. Other uploaded on classroom. All practicals done. E journal. SEE completed on time.	Blended learning & flipped learning. Outreach approach. School teacher/local organisation to develop PPT.
6	EL5. E-commerce	Ms. Judith Barreto	40 Lectures. Uploaded on Google Classroom. Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Notes, Class Policy,	4 CA's done. Assignment & presentation emailed. All practicals done. E journal maintained. Semester end question papers & answer sheets.	

			Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome. Class policies, Schedule of assessment, Attendance uploaded.		
V	**Bachelor of Vocational in Software Development**				
1	Office Automation Tools COM- I.SD-SK1 I	Mr.Castor Godinho Mr. Wendham Gray Ms. DikshitaAroskar	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. 39 lectures were conducted out of 45.	3 modes of evaluation for Theory component(Demonstration,Written Exam and Newsletter design).Each student designed new template of Department Newsletter For practical component 2 evaluations were conducted(CorelDraw and Excel experiments).Journal was maintained.	
2	Web Designing COM- I.SD-SK2 I	Mr.Castor Godinho	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching	3 modes of evaluation for theory Component Assignment, Demonstration and Mini Project). For practical Evaluation 5 assessments were conducted(Practical Exam) and journal was maintained	

			Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. 44 lectures were conducted out of 45.		
3	Introduction to Programming COM- I.SD-SK3 I	Mr.Wendham Gray	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. 39 lectures were conducted out of 45.	3 modes of evaluation for theory Component(Assignment, Written Exam and Continuous assessment of the exercise given for each practical session). For practical Evaluation 3 assessments were conducted (Practical Exam)and journal was maintained	
4	Cyber Security COM- I.SD-G3 I	Ms.DikshitaAroskar	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome,	3 modes of evaluation for theory component. Written exam, MCQ and presentation.	

			Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. 50 lectures were conducted out of 60.		
5	Object Oriented Paradigm COM- III.SD-SK7 III	Mr.Wendham Gray	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. 39 lectures were conducted out of 45.	3 Modes of evaluation for theory Component(Written Exam, Demonstration and Project). For practical Component 2 CA's were conducted, evaluating the OOPS skills of the students.	
6	Computer Network COM- III.SD-SK8 III	Ms.DikshitaAroskar	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching	3 modes of evaluation for theory component.Written exam,MCQ and presentation. For practical component 2 continuous assessments were conducted(Setting up virtual machine and practical exam)	

			Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. 43 lectures conducted out of 45.		
7	Database Management Systems COM- III.SD-SK9 III	Mr.Castor Godinho	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. 45 lectures were conducted out of 45.	3 modes of evaluation for theory component(Assignment, Demonstration, MCQ).For practical component 5 assessments were conducted on ERD and SQL Queries. Journal was maintained.	

APPENDIX -II

COMPILED ACADEMIC AUDIT REPORTS OF THE HEAD OF DEPARTMENTS – EVEN SEMESTER (2018-2019)

ParvatibaiChowgule College of Arts and Science (Autonomous)

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

DISCIPLINE: PHYSICAL AND EARTH SCIENCES

CONSOLIDATED 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
I	**CHEMISTRY**				
1	Concepts in Physical and Analytical Chemistry CHE-II.C-3	1)Manjita Porob 2)Anurag Naik	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture Power Point was uploaded on Google classroom 3)Lecture schedule was uploaded on Google classroom at the beginning of semester 4) Variance of lecture +05 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 Power point presentations 5) No weightage for higher order questions in CA 1 6) CA-I was completely creative testing the confidence level	Nil

			Variance in contact Hours of Practical for all batches--06		
2	Concepts in Organic and Inorganic Chemistry CHE-II.C-4	1) Padmini Raikar 2) Navita Naik	1)Interactive learning and power point presentations are employed along with Traditional method 2)Lecture Power Point was uploaded on Google classroom 3)Lecture schedule was uploaded on Google classroom at the beginning of semester 4) Variance of lecture +02 5) Course and unit rating is just right 6) Variance in number of practicals for all batches-01 Variance in contact Hours of Practical for all batches--06	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 Power point presentations 5) No weightage for higher order questions in CA 1 6) CA-I was completely creative testing the confidence level	
3	Comprehensive Chemistry –II CHE-IV.C-6	1)Sachin Kakodkar 2)Mayuri Naik	1)Interactive learning and power point presentations are employed along with Traditional	1)Sufficient time was given to the students before evaluation and results were declared on time 2)Marking Scheme	NIL

			method 2)Lecture Power Point 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 as follows: I- 01 II-01 III-Nil IV-01 7) Variance in number of contact hours for practical batches is as follows: I- --08 II-08 III-06 IV-06	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	
	Pharmaceutical Chemistry	Navita Naik	1)Interactive learning and power point	1)Sufficient time was given to the students before	

4	CHE-IV.E-5		presentations are employed along with Traditional method 2)Lecture Power Point 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 7) Variance in number of contact hours for practical batches is 10 hrs* *<u>*The variance is due to sudden leakage of gas in the laboratory and the repair work. As all the practicals required burner, 4 hour sessions were later*</u>	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 & Power point presentations . 5) 0% of the questions in CA II were of higher order 6)CA -1 tested the confidence level	

			converted to 2 hours due to shortage of time.		
5	Polymer and Colloid Science CHE-IV.E-6	1) Dr. Sachin Kakodkar 2) Dr. Ganpat Naik	1) Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2) Lecture Power Point and notes were uploaded on Google classroom 3) Lecture schedule was uploaded on Google classroom at the beginning of semester 4) Variance of lecture is 0 5) Course and unit rating is just right 6) Variance in number of practical for the batches is Batch I & II..... 0 Batch III & IV ..... +1 7) Variance in number of contact hours for practical batches is as	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. 5) 20% questions in CA 1 were of higher order	Polymer and Colloid Science CHE-IV.E-6

			follows: Batch I, II & IV…06 Batch III…08		
6	Spectroscopic Techniques CHE-IV.E-7	1)Lactina Gonsalves 2)Anagha Patil	1)Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2)Lecture Power Point 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 5) Course and unit rating is just right 6)Variance in number of practical for all batches is Nil 7) Variance in number of contact hours for practicals Batch 1, 2…06	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. 5) 50% and 30% of the questions were of higher order In CAI &CAII respectively	Dr. Lactina Gonsalves has employed the technique of POGIL in teaching the course for 10% of the lectures.

			Batch 3…..10* Batch 4, …08 *The variance is due to the adjustments of public holidays		
7	Advanced Chemistry –II CHE-VI.C-8	1) Dr. Ganpat Naik 2) Dr. Mayuri Naik	1) Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2) Lecture Power Point was uploaded on Google classroom 3) Lecture schedule was uploaded on Google classroom at the beginning of semester 4) Variance of lecture is +01 5) Course and unit rating is just right 6) Variance in number of practical for all the batches is 01 7) Variance in number of contact hours for practical batches is as follows: Batch I, II &	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 and innovative experiments/present ation. 5) 13% questions in CA 1 were of higher order	Innovative experiments were designed by students based on instruments like pH meter, conductometer, polarimeter and spectrophotom eter.

			IV…08 Batch III…04		
8	Spectroscopic Methods in Organic Chemistry CHE-VI. E-13	1)Padmini Raikar 2)Mayuri Naik	1)Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2)Lecture Power Point 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 5) Course and unit rating is just right 6)Variance in number of practical for all the batches is 01 7) Variance in number of contact hours for practicals is as follows: Batch 1, 2…06 Batch 3, 4…08	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 ,written test and Problem solving 5)13% QESTIONS IN CA II and CA III were of higher order 6) CA-III was completely applicative	

9	Environmental Chemistry CHE-VI. E-14	1)Manjita Porob 2)Anurag Naik	1)Interactive learning and power point presentations are employed along with Traditional method and problem solving. 2)Lecture Power Point was uploaded on Google classroom/CLAAP 3)Lecture schedule was uploaded on Google classroom/CLAAP at the beginning of semester 4)Variance of lecture – -01 5) Course and unit rating is just right 6)Variance in number of practical for all the batches is Nil 7) Variance in number of contact hours for practicals for all batches is 08 hours	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 Presentation ,written test and Poster 5)CA I tested the ability of the students to deliver their knowledge and confidence 6) CA-III was completely creative to make them understand the impact of environmental pollution	
10	Selected Topics in Inorganic Chemistry	1)Lactina Gonsalves	1) Interactive learning and power point	1)Sufficient time was given to the students before	

	CHE-VI. E-15	2)Anagha Patil	presentations are employed along with Traditional method and problem solving. 2)Lecture Power Point 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 5) Course and unit rating is just right 6)Variance in number of practical for all the batches is Nil 7) Variance in number of contact hours for practicals for all batches is 06 hours	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 ,written test and Objective questions 5)CA II and CA III involved 40% and 30% questions of higher order respectively	
II	**COMPUTER SCIENCE**				
1	COM-II. C-3** Object Oriented Programming	Mrs. Neeta Dhopeshwarkar	45 Lectures. Details on classroom. Uploaded on classroom, Teaching	Best 2 of 3. (Different modes.)Practicals done. Assessment done.	Used Flipped classroom for one evaluation mode.

			schedule, CA schedule, Attendance Policy etc.		
2	COM-II.C-4* Data Structures	Mr. Amar Naik	45 Lectures. All details on classroom. Uploaded on classroom, Teaching schedule, CA schedule, Attendance Policy etc.	Best 2 out of 3 (Different modes.)Practicals done. Time insufficient for covering all practicals. Journal uploaded.SEE done.	-
3	COM-IV.C-6 Computer Architecture &Organization	Mr. V.C Kumaresh	45 Lectures. Details uploaded on classroom. Uploaded on classroom, Teaching schedule, CA schedule, Attendance Policy etc.	Best 2 out of 3.Practicals all done. No E journal. Hard copy. Semester End Assessment Centrally carried.	Sample programme of assembly language given before every practical.
4	COM-IV.E-6 Database application development	Yet to Check			
5	COM-IV.E-7 Server Side Programming	Yet to Check			
6	COM-IV.E-8 Human Computer Interface	Dr. Sameena Falleiro	45 Lectures. Uploaded on classroom, Teaching schedule, CA schedule, Attendance Policy etc.	3 evaluations. Best 2 of 3. Hard copy. Practicals all done. Semester End Assessment Centrally conducted.	Mini project for the effective HCI development life cycle. List of Research papers to read.
7	COM-VI.C-8* Computer Networks	Ms. Suchitra Bhat	46 Lectures. Uploaded on classroom. Uploaded on classroom, Teaching schedule, CA	4 evaluations. Best 3 taken. Practicals done. Semester End Assessment Centrally conducted.	Visit to OIT for studying Network configuration in Chowgule College.

			schedule, Attendance Policy etc		
8	COM-VI.E-13 Network Security	Ms. Shweta Shet Verenkar	45 Lectures. Uploaded on classroom. Uploaded on classroom, Teaching schedule, CA schedule, Attendance Policy etc.	4 modes. Best 3 selected. Presentation, Assignment uploaded. Practicals all done. Practicals all done.	Designing algo. Presentation & analysis.
9	COM-VI.E-15 Multimedia Techniques	Mrs. Neeta Dhopeshwarkar	47 Lectures. Uploaded lecture schedule, CA schedule etc.	4 CA. Minimum 3 CA. Best 3 CA's. Uploaded on classroom. Practicals all done. Portfolio done by students.	-
10	COM-VI.E-16 Digital Marketing	Ms. Judith Barreto	45 Lectures. Resources on classroom.Uploaded on classroom, Teaching schedule, CA schedule, Attendance Policy etc	4 CA. Best 3 taken. Uploaded Presentation & Assignment. E journal uploaded on classroom. SEE exam yet to be conducted.	Students were given a presentation to prepare about PGDCA programme, same was used for Digitally marketing.
III	**GEOLOGY**				
1	GEL-II.C-3A: Elementary Petrology	Allan Rodrigues	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. Resources provided reference books	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Conduct of SEE • Progress of CA, SEE & PA was discussed within a	• Use of Audio-video.

				weeks time with students	
2.	GEL-II.C-4 Principles of Stratigraphy and Paleontology	Meghana S Devli (Theory) Swati Ghadi (Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Progress of CA, SEE & PA was discussed within a weeks time with students.	• Conducted Fieldwork as mode of evaluation. • Assignment was based on fieldwork.
3.	GEL-III.C-6 Structural Geology	H S S Nadkarni (Theory) Meghana S Devi (Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, interactive sessions, Fieldwork, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA & PA was discussed within a weeks time with students	• Conducted Fieldwork as mode of evaluation. • Assignment was based on fieldwork.
	GEL-IV.E-5	Swati Ghadi & H S	• Completed the syllabus	• Conduct of CA's at regular	

4.	Ore Genesis	S Nadkarni (Theory) Swati Ghadi (Practical)	on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA & PA was discussed within a weeks time with students	
5.	GEL-IV.E-6 Stratigraphy of India – Part I	H S S Nadkarni & Swati Ghadi (Theory) H S S Nadkarni (Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA & PA was discussed within a weeks time with students	
6.	GEL-IV.E-7 Natural Hazards and Management	Malcolm Afonso (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved.	Use of Google Earth. Use of Audio-Video Visuals Chowgule College disaster

			books, e-books, research papers	• Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA& PA was discussed within a weeks time with students	management plan was used as a case study Student mentors were assigned to weaker students for better understanding of concepts.
7.	GEL-IV.E-8 Geotectonics	Allan Rodrigues (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE • Progress of CA, SEE & PA was discussed within a weeks time with students	Use of Audio-Video Visuals
8.	GEL-VI.C-8 Sedimentary Petrology	Allan Rodrigues & Malcolm Afonso (Theory) Swati Ghadi & Allan Rodrigues (Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals • Assessment of SEE	Use of e-journal Use of Audio-Video Visuals

				• Progress of CA, SEE & PA was discussed within a weeks time with students	
9.	GEL-VI.E-13 Metamorphic Petrology	Meghana S Devli (Theory & Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals. • Assessment of SEE • Progress of CA& PA was discussed within a weeks' time with students	Use of Petrological Microscope with interactive visuals.
10.	GEL-VI.E-14 Rock Deformation Microstructures	Meghana S Devli & Swati Ghadi (Theory) Meghana S Devli (Practical)	• Completed the syllabus on time • About 90% contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	• Conduct of CA's at regular intervals. • Besides traditional method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals' • Assessment of SEE • Progress of CA& PA was discussed within a weeks time with students	Use of Petrological Microscope with interactive visuals.
11.	GELVI.E-15 Surveying and Mapping	H S S Nadkarni & Malcolm Afonso (Theory &	• Completed the syllabus on time • About 90%	• Conduct of CA's at regular intervals. • Besides traditional	Outdoor Hands on training on surveying

		Practical)	contact hours completed. • Uploaded e-content on Google classroom. • Resources provided reference books, e-books, research papers	method of teaching, fieldwork interactive sessions, group discussions, presentation, laboratory work was involved. • Regular conduct and assessment of Practicals. • Progress of CA & PA was discussed within a weeks time with students	methods. Use of self-prepared YouTube videos. Portfolio based on geological field training conductedat Bagalkot, Karnataka. Student mentors were assigned to weaker students for better understanding of concepts.
12.	Projects				All projects were based on community outreach viz: 5. A study of the Temporal variation in groundwater quality in the villages of Velsao and Cansaulim in South Goa 6. Geophysical Surveying and Rainwater Harvesting System for Parvatibai

					Chowgule College of Arts & Science Autonomous 7. Investigation of Landslide affected at Borim-Khandepar, Ponda 8. Groundwater analysis in Nessai Industrial area
IV	**PGDCA**				
1	DCA21 Computer Networking	Ms.SurekhaPatil	45 Lectures. Uploaded on classroom.Teaching schedule, Class policy, Attendance etc.	Best of 3 out of 4. Assignment /Presentation uploaded on classroom.All practicals done.SEE Done.	Visit to OIT to study Network Configuration in Chowgule College.
2	DCA22 Software Engineering	Dr.SameenaFalleiro	45 Lectures. Notes on classroom uploaded. Teaching schedule, Class policy, Attendance etc.	4 different modes. Best 3 modes taken case study, poster uploaded on classroom. Hard copy maintained. Practicals all done. SEE Done.	Blended learning (Problem based & flipped), Students encouraged to read Research papers.
3	EL6. Digital Marketing	Ms. Judith Barreto	45 Lectures. Resources uploaded on classroom. Teaching schedule, Class policy, Attendance etc.	Best 3 CA out of 4 CA. Practicals all done. Practical mailed to Kumaresh Sir.	Digital Marketing of PGDCA Programme.
4	EL7. Network Administration	Mr. Amar Naik	45 Lectures Resources uploaded on classroom.Teaching schedule, Class policy,	Best 3 CA out of 4. Online submission of Assignments & Presentations.All practicals done. Uploaded E Journal.SEE Exam done.	-

			Attendance etc.		
5	EL9. Server Side Programming	Mr. D. Prabakaran	40 Lectures. Uploaded details on classroom.Teaching schedule, Class policy, Attendance etc.	3 CA taken, all 3 CA to be considered, Assignment, Presentation uploaded. Practicals all done. Uploaded Journal. Exam yet to get over.	Google classroom, Presentation, Developing a drive website.
6	EL13. Office Automation Tools	Ms. Surekha Patil	43 Lectures. Uploaded details on classroom.Teaching schedule, Class policy, Attendance etc.	Best 3 out of 4. Different modes of Assessment. Practicals all done. Only Evaluation uploaded. SEE yet to be conducted (2nd May 2019).	Hands on session during the lecture.
V	**B.VOC SOFTWARE DEVELOPMENT**				
1	Web Development Framework COM-IV.SD-K10	Mr.WendhamGray	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Videos were uploaded. 39 lectures	3 modes of evaluation for Theory component (Mini Project, Written Exam and Continous Exam). For practical component 3 evaluations were conducted .Journal was maintained.	

			were conducted out of 45.		
2	Computer Organisation and Operating System COM-II.SD-SK4	Mr.WendhamGray	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. Videos were uploaded. 39 lectures were conducted out of 45.	3 modes of evaluation for theory Component(Written Demonstration and Weekly Exercises). For practical Evaluation 4 assessments were conducted(2 Practical Exam, shell script programme, Identifying PC Components) and journal was maintained	
3	Data Structure COM-II.SD-SK5	Ms.DikshitaAroskar, Mr.CastorGodinho	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme,	3 modes of evaluation for theory Component (Presentation, Written Exam and Assignment with Viva). For practical Evaluation 3	

			Objective and learning Outcome, Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. 44 lectures were conducted out of 45.	assessments were conducted (Practical Exam)and journal was maintained	
4	Multimedia COM-II.SD-SK6	Ms.DikshitaAroskar, Mr.CastorGodinho	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. 43 lectures were	3 modes of evaluation for theory component. Written exam, MCQ and Creating Video. For practical Evaluation 3 assessments were conducted (Practical Exam)and journal was maintained	

			conducted out of 45.		
5	Mobile Application Development COM-IV.SD- SK12	Ms.DikshitaAroskar, Mr.CastorGodinho	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome, Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. 45 lectures were conducted out of 45.	3 Modes of evaluation for theory Component (Written Exam, Presentation,App). For practical Component 3 CA's were conducted. 2 programmes and 1 project. Journal was maintained.	
6	Agile Software Engineering COM-IV.SD- SK11	Ms.DikshitaAroskar, Mr.CastorGodinho	Notes, Class Policy, Assessment and Evaluation Details, Course Details, Course Assessment Scheme, Objective and learning Outcome,	3 modes of evaluation for theory component. Written exam, MCQ and presentation. For practical component 4 continuous assessments were conducted. Journal was maintained.	

			Teaching Schedule, Journal Format, Teaching Learning activities were uploaded on Google Classroom. Online submission of assignments. 45 lectures conducted out of 45.		

APPENDIX-III

Signature of the Academic Panel Members (HODs)

DEAN-Physical and Earth Sciences Dr.(Ms).Sameena Falleiro Associate Professor, Department of Computer Science.	
HOD-Physics	
HOD-Chemistry	
HOD-Geology	
HOD-Mathematics	
HOD-Computer Science	
HOD-Geography	