Parvatibai Chowgule College of Arts and Science
Autonomous

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

Following Members of Computer Science were present for the meeting convened on Saturday, 1st February 2020 at 10.00 am. in Seminar Hall of M.Sc (IT).

Sr. No.	Name of the Faculty	Signature
1.	Mrs. Suchitra Bhat - Chairman	1/2/2020
2.	Dr. Jyoti D Pawar- Academic Council Nominee	
3.	Dr. Venkat Naresh Babu -Academic Council Nominee	AB
4.	Mr. Ramrao Wagh – Vice Chancellor, Nominee	
5.	Mr. Deepak P Chodankar – Industry Representative	
6.	Dr. Shankar B Naik - Alumni	AB
7.	Dr. Bharat Despande – Special Invitee	
8.	Dr. Shaila R. Ghanti -Member	
9.	Mr. Alberto Ian Barreto -Member	
10.	Mr. Kumaresh V.C. -Member	
11.	Mr. D.Prabakaran- Member	
12.	Mrs. Judith Dias Barreto - Member	
13.	Ms. Ashweta A. Fondekar- Member	
14.	Ms. Diksha Prabhu Khorjuvenkar- Member	
15.	Ms. Clementine Vanessa Antao- Member	
16.	Ms. Vidhya Nadagaddi-Member	
17.	Mr.Mahesh Matha- Member	
18.	Mr.Abhishek Gudekar- MemberSecretary	
19.	Mr. Gajanan Nail- Member	
20.	Mr. Castor Godinho - Member	
21.	Mr. Wendham Gray -Member	
22.	Ms. Dikshita Aroskar- Member	

atorda, Gogol-Margao, Goa 403602, Phone:0832-2722222, Fax:0832 2759067, Email: principal@chowgules.ac.in

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Date: 24/02/2020

To
All the members of BOS-Computer Science

Sub: Minutes of the meeting of the Eighth Board of Studies in Computer Science held on 1st February 2020

Sir/Madam,

I am forwarding the minutes of the Eighth Board Of Studies (BOS) in Computer Science held on 1st February 2020, Seminar Hall of M.Sc(IT), Department of Computer Science of the College. If no exception is taken by any member who was present at the meeting to the correctness of the Minutes of the Meeting within 5 days, of dispatch of the Minutes, they shall be deemed to be correct.

Yours faithfully

Ms.Suchitra Bhat
Chairman
BOS-Computer Science

Encl: Minutes of the meeting

P.O. Fatorda, Gogol-Margao, Goa 403602, Phone:0832-2722222, Fax:0832 2759067, Email: principal@chowgules.ac.in

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MINUTES OF MEETING OF EIGHTH BOARD OF STUDIES IN COMPUTER SCIENCE
HELD ON 1st February 2020 AT 10.00 am

Vide Chowgule College notice F.133(C) 1732 dated 14/01/2020 a meeting of this BoS was convened on 1st February 2020 at 10.00 am at the Seminar Hall of M.Sc(IT). Department of Computer Science, Parvatibai Chowgule College of Arts & Science (Autonomous). Margao Goa. Since the number of members present represented the Quorum. The BoS began its proceedings.

Minutes are presented in the format.

Members present:

1. Mrs. Suchitra Bhat - Chairman
2. Dr. Jyoti D Pawar- Academic Council Nominee
3. Mr. Ramrao Wagh – Vice Chancellor, Nominee
4. Mr. Deepak P Chodankar – Industry Representative
5. Dr. Bharat Despande – Special Invitee
6. Dr. Shaila R. Ghanti -Member
7. Mr. Alberto Ian Barreto -Member
8. Mr. Kumaresh V.C. -Member
9. Mr. D.Prabakaran- Member
10. Mrs. Judith Dias Barreto – Member
11. Ms. Ashweta A. Fondekar- Member
12. Ms. Diksha Prabhu Khorjuvenkar- Member
13. Ms. Clementine Vanessa Antao- Member
14. Ms. Vidhya Nadagaddi-Member
15. Mr.Mahesh Matha- Member
16. Mr.Abhishek Gudekar- Member Secretary
17. Mr. Gajanan Nail- Member
18. Mr. Castor Godinho - Member
19. Mr. Wendham Gray -Member
20. Ms. Dikshita Aroskar- Member

Members Absent with Intimation

1. Dr. Venkat Naresh Babu -Academic Council Nominee
2. Dr. Shankar B Naik - Alumni

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PROCEEDINGS:

The Chairperson Ms. Suchitra Bhat, Head and Associate Professor, Department of Computer Science welcomed all the members of the Board of Studies (BoS). After the introduction the agenda of the meeting was read and the Board transacted the following business:

Agenda Items:

1. Review of T.Y. B.Sc. courses under old structure.
2. Review of F.Y./S.Y. B.Sc. courses under new structure.
3. Review of SEC and GEC courses.
4. Review of PGDCA Programme structure and Courses.
5. Review of M.Sc(IT) courses.
6. Review of B.Voc (SD) courses.
7. Innovations in Teaching and Learning.
8. Any Other Business (A.O.B.)

PART-A: Resolutions

1. Review of T.Y. B.Sc. courses under old structure. The structure of T.Y.B.Sc courses was presented and discussed.

Following are the changes:

(a) Syllabi has been grouped unit wise.
(b) "Security" topic is to be removed from the Operating System(COM-V.C-7*) Course.
(c) Practical of the Operating System (COM-V.C-7*) is to be mapped with the Theory content.
(d) Linear Algebra as a prerequisite is to be removed from Introduction to Data Science (COM-V.E-11) course and Statistical Methods to be added as the new pre-requisite.
(e) Introduction to programming (COM-I.C-2*) is to be removed as pre-requisite course and Software Engineering (COM-III.E-1) is to be added as the new pre-requisite for Software testing .
(f) Prerequisite chart of the courses to be provided to the students.

After the changes ,members approved the course structure. The approved structure of the same is presented in **Annexure I**

2. Review of F.Y./S.Y. B.Sc. courses under new structure. The Structure and Syllabi of the courses was presented and discussed.

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Following are the changes:

(a) Syllabi has been grouped unit wise.
(b) BOS Members suggested to remove pre-requisite courses for the Core Courses.
(c) "Balaguruswamy, E. (2014). Programming with Java-A Primer. McGraw-Hill Professionals" is to be removed as the mandatory reference for Object Oriented Programming (COM-III.C-5A) and "Khalid A. Mughal , Rolf W. Rasmussen, Programmer's Guide to Java" to be added in the mandatory References.
(d) "Pierre Bourque, Richard E Fairley, Ieee Computer Society(2014) Guide to the Software Engineering Body of Knowledge (SWEBOK(R)): Version 3.0" is to be added in the mandatory reference of Software Engineering (COM-E1) course.
(e) Pool of electives to be floated for each semester.
(f) List of Practicals for the course COM-II. C-3A Database Management System I was updated.
(g) Web Designing (COM-E4) and Object Oriented Programming (COM-III.C-5A) is to be removed as prerequisite courses for Mobile Application Development (COM-E10).
(h) Web Designing (COM-E4) to be removed as prerequisite course from Server Side Programming (COM-E7) course.
(i) BOS members suggested to update the contents of Mathematical Foundation in Computer Science-II (COM-E3) course.

After the changes ,members approved the course syllabi. The approved syllabi of the same is presented in **Annexure II.**
Summary of changes is presented in **Annexure IIA.**

3.SEC and GEC courses were presented and discussed:

a) Syllabi has been grouped unit wise.
b) Members decided that credits earned from SWAYAM courses can be considered as extra credits.

After the changes ,members approved the course syllabi. The approved syllabi of the same is presented in **Annexure III.**

4. Review of PGDCA Programme structure and Courses was presented and discussed.

Following are the changes:

(a) Syllabi has been grouped unit wise.
(b) BOS members suggested to add Education Technology courses as elective courses as it was seen that many students also opt to take a job as Computer teacher in high schools/Higher secondaries apart from higher studies and Jobs. Assessment and Evaluation for Learning (DCA-EL14), and Instructional Design (DCA-EL15) have been added to the list of electives.
(c) Content Management System to be added in the list of electives. Same has been added to the list of electives.
(d) Introduction of programming to be renamed as "Problem Solving and Introduction to Programming"(DCA11).
(e) "Latex" topic is to be removed from "Office Automation Tools (DCA-EL3)" Course.
(f) List of Practicals for the course DCA12 Database Management System was updated.

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After the changes members approved the Programme structure and the syllabi of the courses.
Changes are presented in the **Annexure IV.**
Summary of changes is presented in **Annexure IVA.**

5. Review of M.Sc(IT) courses.

Following are the changes:

(a) Syllabi has been grouped unit wise.
(b) Units of the Data Structure and Algorithm (MIT11) course to be renamed as (a) Linear Data Structure (b) Non Linear Data Structure (c) Complexity of Sorting and Searching Algorithms (d) File Organisation and Processing.
(c) Language independent books to be included in the mandatory reference of Data Structure and Algorithm (MIT11) course.
(d) Complexity class and Algorithm Strategies to be removed from Data Structure and Algorithm (MIT11) Course.
(e) BOS members suggested forming "Equivalence Committee" from the department faculty council to take decision on "equivalent eligibility criteria" for M.Sc admission.

Approved syllabi of the courses is presented in **Annexure V.**

Summary of changes is presented in **Annexure VA.**

6. Review of B.Voc (SD) courses.

Following are the changes:

(a) Network Administration (CSD-SK5) course from Semester II is to be replaced with "Content Management System" course.
(b) Design Analysis of Algorithms (CSD-SK15) course from Semester VI is to be replaced with "Network Security" Course.
(c) Server side programming (CSD-SK9) course syllabus was presented and approved.
(d) BOS Members suggested to add course on "Internet of Things".

Approved list of Courses along with their syllabi is presented in **Annexure VI.**

7. Innovations in Teaching and Learning.

(a) There was a discussion on Innovation in teaching and learning. Members suggested to arrange industry visits for the students and also to encourage them to participate in various Hackathons.

8. A.O.B.

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PART B: Resolutions/Recommendations of BoS that require consideration / approval of Academic Council:

Agenda Items:

1. Review of T.Y. B.Sc. courses under old structure is presented in **Annexure I.**

2. Review of F.Y./S.Y. B.Sc. courses under new structure is presented in **Annexure II.** Summary of changes is presented in **Annexure IIA.**

3. Review of SEC and GEC courses is presented. **Annexure III**

4. Review of PGDCA Programme structure and Courses is presented in **Annexure IV.** Summary of changes is presented in **Annexure IVA.**

5. Review of M.Sc(IT) courses is presented in **Annexure V.** Summary of changes is presented in **Annexure VA.**

6. Review of B.Voc (SD) courses is presented in **Annexure VI.**

7. Innovations in Teaching and Learning.

8. Any Other Business (A.O.B.)

The foregoing minutes of the meeting are circulated by the chairman on 24th February 2020.

After a fruitful interaction and deliberation, vote of thanks was given by Ms.Suchitra Bhat. HOD of Computer Science Department.

Following were the members present:

1. Mrs. Suchitra Bhat - Chairman
2. Dr. Jyoti D Pawar- Academic Council Nominee
3. Mr. Ramrao Wagh – Vice Chancellor, Nominee
4. Mr. Deepak P Chodankar – Industry Representative
5. Dr. Bharat Despande – Special Invitee
6. Dr. Shaila R. Ghanti -Member
7. Mr. Alberto Ian Barreto -Member
8. Mr. Kumaresh V.C. -Member
9. Mr. D.Prabakaran- Member
10. Mrs. Judith Dias Barreto – Member
11. Ms. Ashweta A. Fondekar- Member
12. Ms. Diksha Prabhu Khorjuvenkar- Member
13. Ms. Clementine Vanessa Antao- Member
14. Ms. Vidhya Nadagaddi-Member
15. Mr.Mahesh Matha- Member
16. Mr.Abhishek Gudekar- Member Secretary
17. Mr. Gajanan Nail- Member
18. Mr. Castor Godinho - Member
19. Mr. Wendham Gray -Member
20. Ms. Dikshita Aroskar- Member

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Due to prior commitments Dr. Venkat Naresh Babu -Academic Council Nominee and Dr. Shankar B Naik - Alumni conveyed their inability to attend the meeting.

Mr.Abhishek Gudekar
Member Secretary
BOS(Computer Science)

Ms.Suchitra Bhat
Chairman
BOS(Computer Science)

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PART C: The remarks of the Dean of the Faculty:-

a. The minutes are in order
b. The minutes may be placed before the Academic Council with remark, if any.
c. Important points of the minutes which need clear policy decision of the Academic council to be recorded.

Date: 24th February 2020

Signature of the Dean:
(Faculty of Physical and Earth Science)
(Dr. Shaila Ghanti)