SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE

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PART- ONE

(Extra-Ordinary)

Tuesday, the 12th March, 2024

DIRECTION

No. 12/2024 Date :- 12 /03/2024

Subject:- Examinations leading to the Post Graduate Diploma in Cyber Security Course [One Year Two Semesters Course ...Credit Grade System] in the Faculty of Science & Technology, Direction, 2024.

Whereas, the Department of Higher & Technical Education, Government of Maharashtra, Mantralaya, Mumbai has granted approval for starting various New Courses/Subjects/Specialized Subjects/Additional Division/New Faculties vide its G.R.No.NGC2022/(116/22)M.S.-4 dated 08/08/2022 to the colleges Shri Shivaji Science College, Amravati and Mahatma Jyotiba Phule Mv. Amravati affiliated to the University from the year 2022-2023,

AND

Whereas, the University has granted affiliation as per the approval of the Government of Maharashtra to the above mentioned colleges affiliated to the University for the New Course Post Graduate Diploma in Cyber Security for the academic session 2022-2023,

AND

Whereas, the Hon'ble Vice-Chancellor has constituted an Ad-hoc Committee for the new Course as mentioned above under the Chairmanship of the Dean, Faculty of Science &Technology for preparation of the Scheme of teaching, learning, examination & evaluation and the Syllabus of the above said Course,

AND

Whereas, the Ad-hoc Committee in its meetings held on 13.1.2023, 13.02.2023 and 09.03.2023 has prepared the draft Scheme of teaching, learning, examination & evaluation and the Syllabus of the Course Post Graduate Diploma in Cyber Security and further resolved to recommend the same to the Faculty of Science & Technology to be implemented from the academic session 2022-2023 onwards and also directed the office for seeking the detailed information from the concerned colleges regarding the Course and by further unanimously deciding that the expert members from the Board of Studies in Computer Science & Computer Science & Engineering for shall be invited for preparation of the Scheme & Syllabus accordingly,

AND

Whereas, Hon'ble Vice-Chancellor on dated 10/05/2023 has given directions regarding implementation of the Scheme of teaching, learning, examination & evaluation and the Syllabus of the Course Post Graduate Diploma in Cyber Security from the academic session 2023-2024 onwards,

AND

Whereas, Hon'ble Vice-Chancellor has accepted and accorded approval to the recommendation of the Dean, Faculty of Science & Technology of the Scheme of teaching, learning, examination & evaluation and the Syllabus of the Course Post Graduate Diploma in Cyber Security under Section 12(7) of the Maharashtra Public Universities Act, 2016 on behalf of the Faculty of Science & Technology and Academic Council on dated 10.05.2023 to be implemented from the academic session 2023-2024 onwards,

AND

Whereas, the Hon'ble Vice-Chancellor has accepted and approved the recommendations of the Dean, Faculty of Science & Technology regarding the Eligibility Criteria and other related draft provisions of Ordinance for the new Course Post Graduate Diploma in Cyber Security [One Year Two Semesters Course] for its further implementation,

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AND

Whereas, the Scheme of teaching, learning, examination & evaluation of the new Course Post Graduate Diploma in Cyber Security are required to be regulated by the Regulation,

AND

Whereas, the process of making of an Ordinance / Regulation is a time consuming process,

Now, therefore, I, Dr. Milind A. Barhate, Vice-Chancellor of Sant Gadge Baba Amravati University, Amravati in exercise of the powers conferred upon me under Sub-Section 8 of section 12 of the Maharashtra Public Universities Act, 2016, do hereby direct as under :-

1. This Direction may be called "Examinations leading to the Post Graduate Diploma in Cyber Security Course [One Year Two Semesters Programme] in the Faculty of Science & Technology", Direction, 2024**.**

2. This Direction shall come into force with effect from the date of its issuance to be implemented from the Academic Session 2023-2024 onwards.

3. The Duration of each semester of the new Course Post Graduate Diploma in Cyber Security shall be of six months.

4. Following shall be the Examinations leading to the Post Graduate Diploma in Cyber Security namely:

   (i) Post Graduate Diploma in Cyber Security Semester I and
   (ii) Post Graduate Diploma in Cyber Security Semester II.

5. (i) The examination specified in paragraph 4 above shall be held twice in a year and at such places and on such dates as may be appointed by the University.
   (ii) Main Examination of Semester I shall be held in Winter and Supplementary Examination shall be held in Summer.
   (iii) Main Examination of Semester II shall be held in Summer and Supplementary Examination shall be held in Winter.

6. **Eligibility Criteria for Admission**:

The candidate who has passed a Bachelor's Degree from any Faculty with subjects like Information Technology/ Computer Science/ Computer Application/ Bioinformatics/ Statistics/ Mathematics / Electronics / Electronics & Telecommunication/ Physics/ Chemistry/ Biochemistry/ Microbiology/ Biotechnology/ Forensic Science as one of the subjects, B.Voc. Courses approved by NASSCOM OR IT-ITes Sector Skill Council in Cyber Security, Data Analytics, Software Development, Information Technology etc., L.L.B., L.L.M., from the University or of any Statutory University or any other degree equivalent thereto shall be eligible to take admission for the Course.

Programme Outcomes (POs):

After undergoing this programme, students would be able to:

- Understand the Cyber Laws & IT Act 2000 (and its amendments) framework in India.
- Understand the steps of recording forensic investigation.
- Identify, analyze and remediate cyber security breaches by learning and implementing the real-world scenarios.
- Develop cyber security strategies and policies.
- Apply the principles, procedures and processes of digital forensics and cyber- crime investigations.
- Analyze and evaluate the cyber security needs of an organization.
- Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
- Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools.

Career Opportunities: After successful completion of this programme, the learners may choose their career as: Cyber Security Consultants, Cyber Security Analyst, Systems and Networks Security Professional, IT Security Officer, IT Infrastructure Analyst, Quality and Security Analyst, Service Division (IT enabled services, maintenance service and installation of computer services), Software Development and Testing Industries, Web Development and Testing Industries, Mobile Applications Development and Testing Industries, Cloud Services Support Engineer, Telecommunication Sector, Defense Services/Police Services/Cyber Services/Forensic Services, Network/Application Security Analyst, Cyber Security Analyst, Cyber Security Analyst, Security Automation, Cyber Security Practitioner, Cyber Defense Analyst, Penetration Tester, Information Security Engineer in leading IT Industries and to act as Cyber Security Experts in the Governmental Organizations, etc.

7. For purposes of instruction and examinations the students shall study sequentially.

8. The Examinations shall be held at such places and on such dates as may be notified by the University.

9. Subject to his/her compliance with the provisions of this Direction and of other Ordinances (Pertaining to Examinations in General) in force from time to time, the student for admission, at the end of the course of study of a particular term shall be eligible to appear at it, if,

   i) the student satisfied the condition in the table and the provision there under.

TABLE – I

Sr. No	Name of Examination	The student should have completed the Session / term satisfactorily
1	2	3
1	P.G. Diploma in Cyber Security - Semester I	Semester I
2	P.G. Diploma in Cyber Security - Semester II	Semester II

(**Note**: Subjects prescribed and numbered in the Scheme of Examination shall be treated as separate subjects.

However, the Theory and Practical, if any, of the subject shall be treated as separate Head of Passing.)

ii) the student has compiled with the provisions of Ordinance pertaining to Examination in general.

iii) the student has prosecuted a regular course of study in the University Department /College affiliated to the University.

iv) the student has in the opinion of the Head of the Department/Principal shown satisfactory progress in his / her studies.

10. Papers and the practicals in which an examinee is to be examined, maximum marks for these and the minimum pass marks which an examinee must obtain in order to pass in the subject and the examination are detailed in the Examination Scheme.

11. Examination fees for each part of the examination and also the Practical examination shall be as prescribed by the University from time to time.

12. The Scheme of Teaching, Learning, Examination & Evaluation shall be as per "**Appendix-A**" appended with this Direction.

13. i) The scope of the subject is as indicated in the syllabus.
ii) The medium of instruction and examination shall be English.

14. The fees for each part of the Examinations (Theory & Practical) shall be as prescribed by University from from time to time.

15. The computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA of an examinee shall be as given below :-

The marks will be given in all examinations which will include college assessment marks and the total marks for each Theory / Practical shall be converted into Grades as per **Table II**.

SGPA shall be calculated based on Grade Points corresponding to Grade as given in Table II and the Credits allotted to respective Theory / Practical shown in the scheme for respective Semester.

SGPA shall be computed for Semester I & II and CGPA shall be computed in Semester II based on SGPA of Semester I & II of P.G.D.C.S. Course. :-

SGPA = C1 x G1 + C2 x G2 + ... + Cn x Gn C1 + C2 + ... + Cn

Where C1 = Credit of individual Theory / Practical

G1 = Corresponding Grade Point obtained in the respective Theory / Practical

CGPA = (SGPA) I X (Cr) I + (SGPA) II X (Cr) II
(Cr) I X (Cr) II

Where (SGPA) I = SGPA of I Semester
(Cr) I = Total Credits for I Semester
(SGPA) II = SGPA of II Semester
(Cr) I = Total Credits for II Semester

CGPA equal to 6.00 and above shall be considered as equivalent to First Class which shall be mentioned on Grade Card of II Semester as a foot note.

TABLE II

THEORY

Grade	Percentage of Marks	Grade Points
AA	80 ≤ Marks ≤ 100	10
AB	70 ≤ Marks < 80	9
BB	60 ≤ Marks < 70	8
BC	55 ≤ Marks < 60	7
CC	50 ≤ Marks < 55	6
CD	45 ≤ Marks < 50	5
DD	40 ≤ Marks < 45	4
FF	00 ≤ Marks < 40	0
ZZ	Absent in Examination	---

PRACTICAL

Grade	Percentage of Marks	Grade Points
AA	85 ≤ Marks ≤ 100	10
AB	80 ≤ Marks < 85	9
BB	70 ≤ Marks < 80	8
BC	70 ≤ Marks < 75	7
CC	65 ≤ Marks < 70	6
CD	60 ≤ Marks < 65	5
DD	50 ≤ Marks < 60	4
FF	00 ≤ Marks < 50	0
ZZ	Absent in Examination	---

16. Provisions of Ordinance No.18 of 2001 in respect of an Ordinance to provide grace marks for passing in a Head of passing and improvement of Division (Higher Class) and getting distinction in the subject and condonation of deficiency of marks in a subject in all the faculties prescribed by the Direction No.15 of 2017 and Ordinance No. 18 of 2001 shall apply to each examination under this Direction.

17. An examinee who does not pass or who fails to present himself/ herself for the examination shall be eligible for readmission to the same examination, on payment of fresh fees and such other fees as may be prescribed.

18. As soon as possible after the examination, the Board of Examinations shall publish a result of the examinees. The result of the Examination of final Semester of the Course P.G.D.C.S. shall be classified as above and merit list shall be notified as per Ordinance No.6.

19. Notwithstanding anything to the contrary in this Direction, no person shall be admitted to an examination under this Direction, if he/she has already passed the same examination or an equivalent examination of any Statutory University.

20. The examinees who have passed in all the subjects prescribed for Semester I and Semester II of the examination of the Diploma Course shall be eligible for award of Post Graduate Diploma in Computer Science (One Year Two Semesters Course).

Sd/-
(Dr. Milind A. Barhate)
Vice-Chancellor

Date : 12 /03/2024

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Appendix-A

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

Scheme of Teaching, Learning & Examination leading to the P. G. Diploma in Cyber Security [CBCS]

(One Year Two Semesters P. G. Diploma Programme)

Curriculum Scheme for First Year PG.D.C.Y. SEMESTER I & & II

Sr.No.	Course Category	Subject Code No.	Subject/ Course	Credit	Teaching and Learning Scheme			Hours /Week	Examination and Evaluation Scheme									
					Lectures	Tutorial	Practical		Theory					Practical				
Semester-I									Duration of Paper(Hrs)	Max. Marks Theory Papers	Max.MarksSessional	Total	Min Pass Marks	Duration of Exam (Hrs)	External Marks	Internal Marks	Total	Min Pass Marks Grade: P
1	Pre-requisite Mandatory	0PGDCY	Introduction to Computers	0	0	-	-	0	2	40	10	50	25	-	-	-	-	-
2	Core/Major	1PGDCY 1	Cyber Law- I	4	4	-	-	4	3	70	30	100	50	-	-	-	-	-
3	Core/Major	1PGDCY 2	Introduction to Cyber Security	4	4	-	-	4	3	70	30	100	50	-	-	-	-	-
4	Core/Major	1 PGDCY 3	Cyber Crime & Investigation Procedures	4	4	-	-	4	3	70	30	100	50	-	-	50	50	25
5	Lab	1 PGDCY 4	Lab-1:Based on 1 PGDCY2 and 1 PGDCY3	2	-	-	4	4	--	--	--	--	--	3	25	25	50	25
6	Skill	1 PGDCY 5	Project/Seminar -I	4	-	-	8	8	-	-	-	-	-	3	50	50	100	25
7	Skill	1 PGDCY 6	Internship/Field Visit *	2	-	-	4	2	-	-	-	-	-			50	50	25
			TOTAL	**20**	**12**	**--**	**16**	**26**		**250**	**100**	**350**			**75**	**175**	**250**	
Semester-II																		
1	Core/Major	2 PGDCY 1	Cyber Law -II	4	4	-	-	4	3	70	30	100	50	-	-	-	-	-
2	Core/Major	2 PGDCY 2	System and Software Security	4	4	-	-	4	3	70	30	100	50	-	-	-	-	-
3	Core/Major	2 PGDCY 3	Digital Forensics	4	4	-	-	4	3	70	30	100	50	-	-	-	-	-
4	Lab	2 PGDCY 4	Lab-2 based on 2 PGDCY 2 and 2 PGDCY 3	2	--	-	4	4						3	25	25	50	25
6	Skill	2 PGDCY 5	Project/Seminar-II	6			12	12						3	100	100	200	100
			TOTAL	**20**	**12**	**--**	**16**	**28**		**210**	**90**	**300**	**-**	**-**	**125**	**125**	**250**	**-**

Internship /Apprenticeship/Field Work / Work Experience (During vacation of Semester I) for duration 60 hours mandatory to all the students, to be completed during vacations of Semester I to III. This wil carry 2 Credits for learning of 60 hours. Its credits and grades will be reflected in final semester II credit grade report.