

# SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE



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PART- ONE

Thursday, the 3<sup>rd</sup> October, 2019

## Direction

No. 32 /2019

Date : 01/ 10/2019

**Subject : Examinations leading to the Post Graduate Diploma in Computer Science (One Year Course.... Semester Pattern ) as per Credit Grade System in the Faculty of Science & Technology, Direction, 2019.**

Whereas, Direction No. 28/2010 regarding the examinations leading to the Post Graduate Diploma in Computer Science (One Year Course.... Semester Pattern ) as per Credit Grade System in the Faculty of Science & Technology, Direction, 2010 is in existence in the University,  
AND

Whereas, the Ad-hoc Committee in Computer Science & Engineering its meeting held on 07/09/2019 has prepared and recommended the Schemes of teaching & examination along with draft Syllabi of Semester I & II of the Course Post Graduate Diploma in Computer Science (One Year Course.... Semester Pattern ... Credit Grade System) as per A.I.C.T.E. Guidelines for the Course to be implemented from the academic session 2019-2020 and onwards,  
AND

Whereas, the Honøble Vice-Chancellor has accepted & approved the recommendation of the above Committee on behalf of the Faculty of Science & Technology and Academic Council on dated 17.9.2019 regarding implementation of Scheme of teaching & examinations along with draft Syllabi of Semester I & II of the Course Post Graduate Diploma in Computer Science (One Year Course.... Semester Pattern ... Credit Grade System) under Sub Section (7) of Section 12 of M.P.U.Act, 2016 to be implemented from the academic session 2019-2020 and onwards,  
AND

Whereas, the Schemes of teaching & examinations along with draft Syllabi of Semester I & II of the Course Post Graduate Diploma in Computer Science (One Year Course.... Semester Pattern ... Credit Grade System) are to be implemented from the academic session 2019-2020 and onwards,  
AND

Whereas, the the Schemes of teaching & examinations and other provisions are required to be regulated by the Regulation and Ordinance,

AND

Whereas, matter of making Regulation and Ordinance are a time consuming process,

Now, therefore, I, Dr. M. G. Chandekar, Vice-Chancellor of Sant Gadge Baba Amravati University, in exercise of 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 Computer Science (One Year Course.... Semester Pattern ) as per Credit Grade System in the Faculty of Science & Technology, Direction, 2019".
2. This Direction shall come into force with effect from the date of its issuance.
3. Following shall be the Examinations leading to the Post-Graduate Diploma in Computer Science namely-  
(i) Post Graduate Diploma in Computer Science Semester - I examination and,  
(ii) Post Graduate Diploma in Computer Science Semester - II examination.
4. Duration of each of the above Parts shall be one Term with an examination at the end of each Term.
5. (i) The examinations specified in paragraph 3 above shall be held twice in a year at such places on such dates as may be appointed by the University.  
(ii) Main examination of Semester I shall be held in Winter and supplementary examination in Summer.  
(iii) Main examination of Semester II shall be held in Summer and supplementary examination in Winter.
6. Subject to his /her compliance with the provisions of this Direction and other ordinances in force from time to time, the following candidates are eligible for admission to the Post Graduate Diploma (OneYear) in Computer Science :-

Graduates of the University or of any Statutory University equivalent there to, in any faculty with 50% marks (45% for B.C. candidates ) at the degree level and offering Mathematics and Statistics at the H.S.S.C. XIIth standard of equivalent examination.

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 applicant for admission, at the end of the course of study of a particular term shall be eligible to appear at it, if,
  - i) He/She satisfied the condition in the table and the provision thereunder.

**TABLE - I**

<b>Sr. No.</b>	<b>Name of Examination</b>	<b>The student should have completed the session / term satisfactorily</b>
1	2	3
1	P.G.Diploma in Computer Science - Semester I	Semester I
2	P.G.Diploma in Computer Science - 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) He/She has complied with the provisions of Ordinance pertaining to Examination in general.
  - iii) He/She has prosecuted a regular course of study in the University Department /College affiliated to the University.
  - iv) He/She 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 schemes of teaching & examinations shall be as provided under **Appendix-A** appended with this Direction.
  13. **Common Instructions for all the Semesters regarding Choice Based Credits (CBC) / Open Electives (OE) appended herewith are as under :**

The Subjects/Modules/Activity to be undertaken by the Student under the Open Electives approved by the Department /Institute. The schedule of approval will be declared by the Department / Institute at the beginning of the Semester (1<sup>st</sup> July) as per details given below :

One Faculty Member will work as a Coordinator for Open Electives for which 01 Hour of Theory period will be considered as a weekly work load against this work. All Coordinators has to do counseling of respective Open electives, do the Students Registration process and allot them to faculty members (will be working as a mentor). All these electives are internally accessed by respective Coordinators & Guides based on Minimum 03 Class Tests/ Final Objective Test/ Demo/ Report Submission / Certificate issued by competent authority Viva Voce and other methods as decided by the Department / Institute.

The Mentor shall conduct Tutorial Classes for Workload counting purpose, it should be noted that: 01 Tutorial hour is equal to 01 Theory Hour. For Tutorial, Batch of Maximum 20 Students will be considered and the Tutorial Batch should not be comprised of Less than 04 Students.

Coordinator shall take care that the students are not repetitively opting for same type of Electives in every Semester.

**Summary of conduction of Choice Based Credits (CBC) /Open Electives (OC) Electives for all**

**Semesters :-**

- i) Electives Selection Process starts at beginning of the Semester.
- ii) Declare the names of Coordinator for Open Electives.
- iii) Counseling of Students by Coordinators for selection of Open Electives.
- iv) Registration of Students by Coordinators under respective Open Electives.
- v) Allotment of Registered Students to Mentor from Department.
- vi) Guidance/Counseling to Students by Mentor throughout the Semester.
- vii) General Counseling by Coordinators over the Semester, whenever required.
- viii) Final Assessment of Students by Coordinators & Mentor for Allotment of Final Credits.
- ix) Submission of Credits gained by Students to the Head of Department from Coordinators.

<b>Details of the Credits assigned to a student for various activities</b>	<b>No. of Credits</b>
<b>Successful Completion of On-line Course of 4 Weeks:</b> Course like SWAYAM as approved by A.I.C.T.E.& approved Courses like MOOCS/ NPTEL/SPOKEN TUTORIAL (from IITs)	04
<b>Project Activity :</b> One Main project in one Semester.	04
<b>Seminar Activity :</b> Seminar delivery on Current Topics.	01
<b>Paper/Poster presentation:</b> Research paper presentation in National/ International Conferences / Competition or Paper publication in U.G.C. approved journals	01
<b>Completion of Soft Skills programme of one Week :</b> Soft Skills Course of recognised Institute.	01

<b>Internship of 30(Thirty) hours:</b> Live Online Industrial Projects. Internship in reputed Industry.	02
<b>Field Visit of 15 Hrs. :</b> Industrial Training at Semester end. Industrial Visit /Educational Tour. Advanced Technology Workshop /Training. Enterpreneuship Development Workshop/ Training minimum. Personality Development Workshop/ Training minimum.	01
<b>Start Up recognized and approved by the Department :</b> Successful design / implementation / registration of business model	02
<b>Participation of Unnat Bharat Abhiyan :</b> Successful design / implementation / registration of innovative model	1 for 15 days, Maximum 04
<b>Yoga Medidation Camp of 1 Week :</b> Yoga/Meditation Course of recognized Institute	01
<b>Completion of Course/activity of similar credits proposed by the Department from among the available courses/ activities from other Department /Faculty in the College /University. Some of the Subjects are given below :</b> Cyber Crime & Cyber Law. SAP /ERP Cyber Ethics. Web Development. Robotics Modeling & Simulation OR Any other Department approved discipline related or inter-disciplinary subjects.	04

14.           i) The scope of the subject is as indicated in the syllabus.  
              ii) The medium of instruction and examination shall be English.
15.           The fees for each part of the Examinations (Theory & Practical) shall be as prescribed by University from time to time.
16.           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. :-

$$SGPA = \frac{C_1 \times G_1 + C_2 \times G_2 + \dots + C_n \times G_n}{C_1 + C_2 + \dots + C_n}$$

Where         $C_1$  = Credit of individual Theory / Pracial  
                   $G_1$  = Corresponding Grade Point obtained in the respective Theory / Practical

$$CGPA = \frac{(SGPA)_I \times (Cr)_I + (SGPA)_{II} \times (Cr)_{II}}{(Cr)_I + (Cr)_{II}}$$

Where  $(SGPA)_I$  = SGPA of I Semester

$(Cr)_I$  = Total Credits for I Semester

$(SGPA)_{II}$  = SGPA of II Semester

$(Cr)_{II}$  = 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 Ö Marks Ö 100	10
AB	70 Ö Marks < 80	9
BB	60 Ö Marks < 70	8
BC	55 Ö Marks < 60	7
CC	50 Ö Marks < 55	6
CD	45 Ö Marks < 50	5
DD	40 Ö Marks < 45	4
FF	00 Ö Marks < 40	0
ZZ	Absent in Examination	ô

**PRACTICAL**

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

17. 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.
18. 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.
19. As soon as possible after the examination, the Board of Examinations shall publish a result of the examinees. The result of final P.G.D.C.S. Examination shall be classified as above and merit list shall be notified as per Ordinance No.6.
20. 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.
21. 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).

Date : 01/10/2019

Sd/-  
(Dr.M.G.Chandekar)  
Vice-Chancellor

Appendix-A

Curriculum Scheme for First Year PGDCS SEM. I & II																		
Sr.No.	Course Category	Subject Code No.	Subject	Credit	Teaching Schme			Hours /Week	Examination Scheme									
					Lectures	Tutorial	Practical		Theory					Practical				
									Duration of Paper (Hrs)	Max Marks Theory Papers	Max Marks Sessional	Total	Min Pass Marks	Duration of Exam (Hrs)	External Marks	Sessional Marks	Total	Min Pass Marks
<b>Semester - I</b>																		
1	Core	PGDCS/ MCA19101	Computer Organization and Architecture	4	4		-	4	3	80	20	100	40	-	-	-	-	-
2	Core	PGDCS/ MCA19102	Object Oriented Programming with C++	4	4		-	4	3	80	20	100	40	-	-	-	-	-
3	Core	PGDCS/ MCA19103	Mathematical Foundation	4	4		-	4	3	80	20	100	40	-	-	-	-	-
4	Elective	PGDCS/ MCA19104	Elective - 1	4	4		-	4	3	80	20	100	40	-	-	-	-	-
5	Choice Based	PGDCS/ MCA19105	Open Elective	4	-	2	4	6	-	-	-	-	-	-	-	50	50	25
6	Skill	PGDCS/ MCA19106	Lab-1: Based on C++	1	-	-	2	2						3	25	25	50	25
7	Skill	PGDCS/ MCA19107	Lab-2: Based on Mathematical Foundation	1	-	-	2	2	-	-	-	-	-	3	25	25	50	25
8	Skill	PGDCS/ MCA19108	Lab-3: Based on Web Technology	3	2	-	2	4	-	-	-	-	-	3	25	25	50	25
			<b>TOTAL</b>	<b>25</b>	<b>18</b>	<b>2</b>	<b>10</b>	<b>30</b>		<b>320</b>	<b>80</b>	<b>400</b>			<b>75</b>	<b>125</b>	<b>200</b>	
<b>Semester-II</b>																		
1	Core	PGDCS/ MCA19109	Data Structure	4	4		-	4	3	80	20	100	40	-	-	-	-	-
2	Core	PGDCS/ MCA19110	Operating system	4	4		-	4	3	80	20	100	40	-	-	-	-	-
3	Core	PGDCS/ MCA19111	Data Base Management System	4	4		-	4	3	80	20	100	40	-	-	-	-	-
4	Elective	PGDCS/ MCA19112	Elective - 2	4	4		-	4	3	80	20	100	40	-	-	-	-	-
5	Choice Based	PGDCS/ MCA19113	Open Elective	4	-	2	4	6	-	-	-	-	-	-	-	50	50	25
6	Skill	PGDCS/ MCA19114	Lab-4 Based on Data Structure	1			2	2						3	25	25	50	25
7	Skill	PGDCS/ MCA19115	Lab-5 Based on DBMS	1	-		2	2	-	-	-	-	-	3	25	25	50	25
8	Skill	PGDCS/ MCA19116	Lab-6 Based on Linux and Windows	3	2		2	4	-	-	-	-	-	3	25	25	50	25
9	Skill	PGDCS19117	Lab.-7 Mini Project- based on the current application and using tools covered	3	-	-	3	3	-	-	-	-	-	3	50	50	100	50
			<b>TOTAL</b>	<b>28</b>	<b>18</b>	<b>2</b>	<b>13</b>	<b>33</b>		<b>320</b>	<b>80</b>	<b>400</b>	-	-	<b>125</b>	<b>175</b>	<b>300</b>	-

Elective -1	Elective - 2
em Analysis and Design	E-Commerce
Management Information System	Operation Research
Accounting and Financial Mgt.	Software Project Management