DIRECTION

No. 57/2024 Date :- 22/08/2024

Subject:- Examinations leading to the Diploma in Applied Computer Technology [One Year Two Semesters Course – Choice Based Credit System] in the Faculty of Science & Technology, Direction, 2024.

Whereas, Maharashtra Public University Act, 2016 under Section 5(15) has prescribe provision for Diploma/Certificate,

AND

Whereas, Maharashtra Public University Act, 2016, under Section 5(16) has been incorporated the Choice Based Credit System,

AND

Whereas, Maharashtra Public University Act, 2016, under Section 5(20) has institute the Post-Graduate Diploma and its conferment under Section 5(22) ,

AND

Whereas, By taking into consideration exigency regarding preparation of syllabi and Scheme of Teaching, Learning, Examination and Evaluation, the joint Committee of Board of Studies in Computer Science (Computer Application and Computer Science (Computer Software), Computer Science and Engineering and Information Technology,

AND

Whereas, meetings of the Joint Committee was held on 01/03/2024 and 05/03/2024 for finalizing the Scheme of Teaching, Learning, Examination and Evaluation of the said programme and resolved unanimously that, the Board of Study in Computer Science (Computer Application and Computer Science (Computer Software) will prepare the Syllabi,

AND

Whereas, the Board of Study in Computer Science (Computer Application and Computer Science (Computer Software) in its meeting dated 04/05/2024 has resolved to institute the said Degree as per Section 33(f) and 31(s) of Maharashtra Public Universities Act, 2016,

AND

Whereas, the Management Council vide its Item No. 117 dated 14/06/2024 has given approval for the institution of said Diploma,

AND

Whereas, the Board of Study in Computer Science (including Computer Application and Computer Science) (Computer Software) has prepared the Draft Syllabi and Teaching, Learning, Examination and Evaluation Scheme of the said programme and recommend the same to the Faculty of Science and Technology vide Item No. 40 and 41,

AND

Whereas, the Faculty of Science and Technology in its meeting dated 09/07/2024 has approved the recommendation of the Board of Study in Computer Science (including Computer Application and Computer Science) (Computer Software) and recommend it to the Academic Council,

AND

Whereas, Hon'ble Vice-Chancellor has approved the recommendation of the Faculty of Science and Technology pertaining to the Item No. 40 and 41 under sub section (7) of Section 12 on behalf of the Academic Council on 12/07/2024,

AND

Whereas, the said programme is to be implemented from the Academic Session 2023-2024 and the Choice Based Credit System has been implemented from the Academic Session 2022-2023 to all the U.G.C. approved under Graduate and Post Graduate Courses and hence this programme also is to be governed by this system,

AND

Whereas, Maharashtra Public Universities Act, 2016 under section 33(c) provides for Choice Based Credit System for all certificates, diplomas, Degrees, post-graduate programmes and other academic distinctions,

AND

Whereas, Maharashtra Public Universities Act, 2016 under section 33(v) states that the Academic Council has to create policy, procedure and practice for Choice Based Credit System for all Academic programmes,

AND

Whereas, the Scheme of Teaching, Learning, Examination and Evaluation of Semester I to II of the programme of Diploma in Applied Computer Technologyis to be regulated by issuing an Ordinance/Regulation,

AND

Whereas making an Ordinance/Regulaton is a time consuming process.

Now, therefore I, Dr. Milind Barhate, Vice-Chancellor, Sant Gadge Baba Amravati University, Amravati 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. (i)This Direction may be called, "Examinations leading to the Diploma inApplied Computer Technology One year – Two Semesters Course) under Choice Based Credit System Direction, 2024.

ii)The Diploma in Applied Computer Technologyshall belong to the Faculty of Science and Technology.

2. This Direction shall come into force from the Academic Session as follows :-
   i) Semester I and II – from the Academic Session 2023-2024.
3. The provisions of directions, eligibility criteria and other details are as follows and the Scheme of Teaching, Learning, Examination and Evaluation of semester – I to II are appended herewith vide Annexure A1 to A2.

4. The Duration of each semester of the new Course Diploma in Applied Computer Technologyshall be of six months.

5. Following shall be the Examinations leading to the Diploma in Applied Computer Technologynamely:

   (i) Diploma in Applied Computer TechnologySemester I and
   (ii) Diploma in Applied Computer TechnologySemester II.

6. (i) The examination specified in paragraph 5 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.

7. **Eligibility Criteria for Admission**:

   The candidate who has passed 12th Standard examination of Maharashtra State Board of Secondary and Higher Secondary Education with Mathematics or +2 level Higher Secondary Vocational Certificate (H.S.V.C.) in Electronic Technology or Computer Technology or an examination equivalent thereto.

   Programme Educational Objectives :- (P.E.Os)
   1. To equip students with foundational knowledge and practical skill in computer technology..
   2. To provide students with hands-on experience in various aspects of applied computer technology.
   3. To enable students to develop problem- solving abilities and critical thinking skill relevant to computer technology.
   4. To prepared students for entry-level position in the field of computer technology or further academic pursuits in related disciplines.

   Programme Outcomes (POs):

   Upon successful completion of the diploma programme, students should be able to:
   - Demonstrate understanding of fundamental concepts, principals and practices in Computer Technology.
   - Apply various programming languages and tools to solve real-world problems.
   - Design and develop basic software application and systems..
   - Analyze and troubleshoot common hardware and software issues.
   - Utilize computer network and communication technologies effectively.
   - Work collaboratively in a team environment to accomplish computing tasks.
   - Communicate technical information effectively through oral, written, and visual means.
   - Adopt to emerging technology and continue learning in the field of computer technology.

   Programme Specific Outcomes (PSO's)
   1. Apply computer hardware and software components effectively to solve specific technological challenges.
   2. Demonstrate proficiency in utilizing specialized software tools relevant to applied computer technology.
   3. Develop basic web applications to meet user requirement.
   4. Configure and manage computer system and network for small-scale environment.
   5. Evaluate and recommend appropriate computer solutions based on specific business or organizational needs .
   6. Demonstrate awareness of ethical and legal consideration in the use of computer technology.
   7. Collaborate with professionals from diverse backgrounds to implement interdisciplinary solutions involving computer technology.

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

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

10. 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 thereunder.

TABLE – I

Sr. No	Name of Examination	The student should have completed the Session / term satisfactorily
1	**2**	**3**
1	Diploma in Applied Computer Technology- Semester I	Semester I
2	Diploma in Applied Computer Technology- 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.

11. 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.

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

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

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 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 = 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 Classwhich 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	---

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 the Examination of final Semester of the Course Diploma in Applied Computer Technologyshall 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 Diploma in Applied Computer Technology(One Year Two Semesters Course).

Sd/-
(Dr. Milind A. Barhate)
Vice-Chancellor
Sant Gadge Baba Amravati University

Date : 07 /08 /2024

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Sant Gadge Baba Amravati University Amravati
Diploma in Applied Computer Technology (1Year) NSQF level 5

Appendix-A

Sr. No.	type	SubjectCode	Subject	TeachingScheme (Hrs./Week)			Credit	ExaminationandEvaluationScheme						
								Exam Duration (Hrs.)	Max.Marks			TotalMarks	Min.Passing Marks	
									External Marks		Internal Marks			
				Th.	Pr.	Total			TH	PR			Th.	Pr.
SEMESTER1														
1	Core Skill	1ACT1	Java Programming	4		4	4	3	80	-	20	100	40	-
2	CoreSkill	1ACT2	LinuxOperatingsystem	4		4	4	3	80	-	20	100	40	-
3	CoreSkill	1ACT3	ComputerNetwork	4		4	4	3	80	-	20	100	40	-
4	CoreSkill	1ACT4	WebTechnology	3		3	3	3	80	-	20	100	40	-
5	SEC/lab	1ACT5	JavaLab		2	2	1	-	-	25	25	50	-	20
6	SEC/lab	1ACT6	OperatingsystemLab		2	2	1	-	-	25	25	50	-	20
7	SEC/lab	1ACT7	WebTechnologyLab		2	2	1	-	-	25	25	50	-	20
8	GE	1ACT8	ElementsofComputerEngineering	3	2	5	4	2	60	20	20	100	40	-
9	GE	1ACT9	CommunicationSkills	3	2	5	4	2	60	20	20	100	40	-
10	GE	1ACT10	E-Commerce	3	2	5	4	2	60	20	20	100	40	-
			TOTAL			**36**	**30**					**850**		
SEMESTER2														
1	CoreSkill	2ACT1	PythonProgramming	4		4	4	3	80	-	20	100	40	-
2	CoreSkill	2ACT2	DatabaseManagementSystem	4		4	4	3	80	-	20	100	40	-
3	CoreSkill	2ACT3	DataStructures	3		3	3	3	80	-	20	100	40	-
4	DSE	2ACTE1 2ACTE2	E1-cloudcomputing E2-DataMining&Warehousing	3		3	3	3	80	-	20	100	40	-
5	SEC	2ACT4	LABbasedon2ACT E1/E2		2	2	1	-	-	25	25	50	-	20
6	SEC	2ACT5	Labbasedon2ACT1/2/3		2	2	1	-	-	25	25	50	-	20
7	SEC	2ACT6	Project/Internship	1	2	3	2	-	-	25	25	50	-	20
8	GE	2ACT7	communicationskill-2	3	2	5	4	2	60	20	20	100	40	-
9	GE	2ACT8	EthicsAndEtiquettesOfSocial Media	3	2	5	4	2	60	20	20	100	40	-
10	GE	2ACT9	Computer hardware and Maintenance	3	2	5	4	2	60	20	20	100	40	-
			TOTAL			**36**	**30**					**850**		