DIRECTION

No 15 /2025 Date :- 13/02 /2025

Subject:- Examinations leading to the Diploma in Applied Computer Technology [One Year Two Semesters Course – Under National Education Policy] in the Faculty of Science & Technology, Direction, 2024.

Whereas, Direction No. 57/2024, Dated22.8.2024 with respect to an examination leading to the Diploma in Applied Computer Technology (One Year – Two Semesters Course) is in existence,

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 as per National Education Policy -2020 NSQF Level 5and recommend the same to the Faculty of Science and Technology,

AND

Whereas, Hon'ble Vice-Chancellor has approved the recommendation of Board of Study in Computer Science (including Computer Application and Computer Science) (Computer Software) on behalf of Faculty of Science and Technology and Academic Council under sub section (7) of Section 12 on behalf of the Academic Council on 19/12/2024,

AND

Whereas, the said programme is to be implemented from the Academic Session 2024-2025 and the National Education Policy -2020 has been implemented from the Academic Session 2024-2025 to all the U.G.C. approved under Graduate Courses and hence this programme also is to be governed by this system,

AND

Whereas, the Scheme of Teaching, Learning, Examination and Evaluation of Semester I to II of the programme of Diploma in Applied Computer Technology is 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 National Education Policy -2020 Direction, 2025.
ii)The Diploma in Applied Computer Technology shall 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 2024-2025
   .

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 -A

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

5. Following shall be the Examinations leading to the Diploma in Applied Computer Technology namely:
   (i) Diploma in Applied Computer Technology Semester I and
   (ii) Diploma in Applied Computer Technology Semester 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.

ProgrammeEducationalObjectives(PEO):

1. Toequipstudentswithfoundationalknowledgeandpracticalskills incomputertechnology.
2. Toprovidestudentswith hands-onexperienceinvariousaspectsofappliedcomputertechnology.
3. Toenablestudentstodevelopproblem-solvingabilitiesandcriticalthinkingskillsrelevanttocomputer technology.
4. To prepare students for entry-level positions in the field of computer technology or further academic pursuits in related disciplines.

ProgrammeOutcomes(PO's):

Uponsuccessfulcompletionof thediplomaProgramme,students shouldbeableto:

1. Demonstrateunderstandingoffundamentalconcepts andprinciples incomputertechnology.
2. Applyvariousprogramminglanguagesandtoolstosolvereal-world problems.
3. Designanddevelopbasicsoftwareapplicationsand systems.
4. Analyzeandtroubleshootcommonhardwareandsoftwareissues.
5. Utilizecomputer networks and communication technologieseffectively.
6. Workcollaborativelyinateamenvironmenttoaccomplishcomputing tasks.
7. Communicatetechnicalinformationeffectivelythroughoral,written,andvisual means.
8. Adapttoemerging technologiesand continuelearning inthe fieldofcomputer technology.

ProgrammeSpecificOutcomes(PSO's):

1. Applycomputerhardwareandsoftwarecomponentseffectivelytosolvespecifictechnologicalchallenges.
2. Demonstrateproficiencyinutilizingspecializedsoftwaretoolsrelevanttoappliedcomputer technology.
3. Developbasicwebapplicationstomeetuser requirements.
4. Configureand managecomputersystems andnetworks forsmall-scaleenvironments.
5. Evaluateandrecommendappropriatecomputersolutionsbasedonspecificbusinessororganizational needs.
6. Demonstrateawareness of ethicaland legalconsiderationsin the useofcomputer technology.
7. Collaboratewithprofessionalsfromdiversebackgroundstoimplementinterdisciplinarysolutions 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 Technology 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 Diploma in Applied Computer Technology(One Year Two Semesters Course).

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

Date : 12/02/2025

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Sant Gadge Baba Amravati University Amravati
Diplomain Applied Computer Technology (1Year) [NEP-NSQF level 5]

Sr. No	type	Subject Code	Subject	TeachingScheme (Hrs./Week)			Credit	ExaminationandEvaluation Scheme								
				Th.	Pr.	Total		Exam Duration (Hrs.)	Max.Marks				Total Marks		Min.Passing Marks	
									External Marks		Internal Marks			External	Internal	Total
									TH	PR	TH	PR				
	SEMESTER1															
1	CoreSkill	N1ACT1	JavaProgramming	3	-	3	3	3	50	-	30	-	80	20	12	32
2	CoreSkill	N1ACT2	LinuxOperatingsystem	3	-	3	3	3	50	-	30	-	80	20	12	32
3	CoreSkill	N1ACT3	Computer Network	3	-	3	3	3	50	-	30	-	80	20	12	32
4	CoreSkill	N1ACT4	Web Technology	3	-	3	3	3	50	-	30	-	80	20	12	32
5	SEC/lab	N1ACT5	JavaLab	-	4	4	2	-	-	25	-	25	50	10	10	20
6	SEC/lab	N1ACT6	OperatingsystemLab	-	4	4	2	-	-	25	-	25	50	10	10	20
7	SEC/lab	N1ACT7	WebTechnologyLab	-	4	4	2	-	-	25	-	25	50	10	10	20
8	GE	N1ACT8	CommunicationSkills	3	-	3	3	3	50	-	30	-	80	20	12	32
9	SEC/LAB	N1ACT9	CommunicationSkills-LAB	-	2	2	1	-	-	-	-	20	20	-	10	10
10	AssessmentHours					6										
			TOTAL			**35**	**22**						**570**			
	SEMESTER2															
1	CoreSkill	N2ACT1	Python Programming	3	-	3	3	3	50	-	30	-	80	20	12	32
2	CoreSkill	N2ACT2	DatabaseManagementSystem	3	-	3	3	3	50	-	30	-	80	20	12	32
3	CoreSkill	N2ACT3	DataStructures	3	-	3	3	3	50	-	30	-	80	20	12	32
4	DSE	N2ACTE1 N2ACTE2	E1-cloudcomputing E2-DataMining&Warehousing	3	-	3	3	3	50	-	30	-	80	20	12	32
5	SEC	N2ACT4	LABbased onN2ACT E1/E2	-	4	4	2	-	-	25	-	25	50	10	10	20
6	SEC	N2ACT5	LabbasedonN2ACT1/2/3	-	4	4	2	-	-	25	-	25	50	10	10	20
7	SEC	N2ACT7	ComputerhardwareandMaintenance LAB	-	4	4	2	-	-	25	-	25	50	10	10	20
8	GE	N2ACT6	ComputerhardwareandMaintenance	2		2	2	2	50	-	30	-	80	20	12	32
9	SEC	N2ACT8	Project /Internship*		4	4	2	-	-	25	-	25	50	10	10	20
10	AssessmentHours					6										
			TOTAL			**36**	**22**						**600**			

***Internship:Two Credits will be Awarded for minimum 60 Hrs of Internship**