Solapur University, Solapur



Faculty of Commerce

Bachelor of Computer Applications (BCA)

Credit and Grading System

(June, 2014)

SOLAPUR UNIVERSITY, SOLAPUR BACHELOR OF COMPUTER APPLICATIONS (B.C.A. I Sem-I and II) Semester Pattern (Credit & Grading System) June 2014

1. Title :

The degree shall be titled as Bachelor of Computer Applications (BCA)

2. Objectives of the course:

This is a three years bachelor degree course in computer applications aimed at developing computer professional versatile in use of computers mostly in business world. The emphasis is to have generality of developing professionals as programmer, system analysts, database administrators, documentation officer etc.

3. Duration:

i) The course shall be a full time course.

ii) The duration of course shall be three years.

iii) The course shall be run on self-supporting basis.

4. Number of Students:

A batch shall consist of not more than 60 students.

5. Eligibility:

i) A candidate for being eligible for admission to the Degree Course in Computer. Candidate shall have passed XII std. Examination of the Maharashtra Board of Higher Secondary Education or its equivalent or any Diploma of not less than two years.

ii) A candidate has to appear for a common entrance test to be conducted by respective college for getting admission to this course.

- 1 Percentage at HSC 100
- 2. Percentage at entrance -100

200

The merit list will be prepared on the basis of percentage of HSC and percentage at entrance examination. Students will be admitted on the basis of Merit list.

The B.C.A. Examination will be 3600 marks divided into 3 parts as per details given below:

- (i) B.C.A. Part I (Sem I, II) Aggregate marks 1200
- (ii) B.C.A. Part II (Sem III, IV) Aggregate marks 1200
- (iii) B.C.A. .Part III (Sem V, VI) Aggregate marks 1200

6. Credit and Grading System

With the view to ensure worldwide recognition, acceptability, horizontal as well as vertical mobility for students completing under graduate degree, the Solapur University is implementing Credit and grading system of Evaluation at Undergraduate level.

Credit is a numerical value that indicates student's work load (Lectures, Lab work, Seminars, Tutorials, Field work, etc.) to complete a course unit. In most of the universities 15 contact hours constitute one credit. The contact hours are transformed into Credits. As per present norms, there are 4 contact hours per paper (subject) per week which works out to be 60 contact hours per paper (subject) per semester.

In Solapur University, for B.C.A.-I, there are 6 compulsory subjects and each subject has 4 contact hours per paper (subject) per week. Therefore, total contact hours per week are 24.

Moreover, the grading system of evaluation is introduced for B.C.A. course, wherein process of Continuous Internal Evaluation is ensured. The candidate has to appear for Internal Evaluation of 30 marks and University Evaluation for 70 marks. It is 70 + 30 pattern of evaluation. It is applicable for theory and practical as well. The details regarding this evaluation system are as under.

BCA Semester-I Subjects

Paper Nar Paper Coo			n to Infor	mation	Techn	ology			
TLM	Hrs	Credits	AM	Min	Max	AT	Min	Max	Evaluation System
Lasturas	4	4	Theory		100	UA	28	70	Marks System
Lectures	4	4	Theory		100	CA	12	30	Marks System

Paper Nat Paper Coo			rogrammi	ng thro	ugh 'C')					
TLM	1 Hrs Credits AM Min Max AT Min Max Evaluation System										
Lasturas	4	4	Theory		100	UA	28	70	Marks System		
Lectures	Lectures44Theory100 \overrightarrow{CA} $\overrightarrow{20}$ $\overrightarrow{70}$ $\overrightarrow{Marks System}$ Lectures44Theory100 \overrightarrow{CA} 1230Marks System										

Paper Nan Paper Coo			ls Of Finar	ncial A	ccounti	ng				
TLM										
Lasturas	4	4	Theory		100	UA	28	70	Marks System	
Lectures	Lectures44Theory100 \overrightarrow{CA} 2670Marks System \overrightarrow{CA} 1230Marks System									

Paper Nat Paper Coo			mmunicati	ion					
TLM	Hrs	Credits	AM	Min	Max	AT	Min	Max	Evaluation System
Lasturas	4	4	Theory		100	UA	28	70	Marks System
Lectures	4	4	Theory		100	CA	12	30	Marks System

Paper Nat Paper Co			thematics						
TLM	Hrs	Credits	AM	Min	Max	AT	Min	Max	Evaluation System
Looturos	4	4	Theory		100	UA	28	70	Marks System
Lectures	4	4	Theory		100	CA	12	30	Marks System

Paper Nar	ne: La	b Course ·	-1								
Practical P	aper-I	based on I	Paper Code	BCA10	1						
Practical P	Practical Paper-II based on Paper Code BCA102										
Paper Coc	Paper Code: 106										
TLM	Hrs	Credits	AM	Min	Max	AT	Min	Max	Evaluation System		
Drastical	UIA Marks System										
Flactical	Practical 4 4 Practical 100 CA 40 100 Marks System										

BCA Semester-II Subjects

Paper Nar Paper Coo			++						
TLM	Hrs	Credits	AM	Min	Max	AT	Min	Max	Evaluation System
Lasturas	4	4	Theory		100	UA	28	70	Marks System
Lectures	4	4	Theory		100	CA	12	30	Marks System

Paper Nat			ology								
Paper Code: 202											
TLM	Hrs	Credits	AM	Min	Max	AT	Min	Max	Evaluation System		
Lasturas	4	4	Theory		100	UA	28	70	Marks System		
Lectures	4	4	Theory		100	CA	12	30	Marks System		

Paper Nat Paper Co			counting v	with Ta	lly					
TLM	TLM Hrs Credits AM Min Max AT Min Max Evaluation System									
Lasturas	4	4	Theory		100	UA	28	70	Marks System	
Lectures	4	4	Theory		100	CA	12	30	Marks System	

Paper Nat	Paper Name: Development of Human Skills										
Paper Code: 204											
TLM	Hrs	Credits	AM	Min	Max	AT	Min	Max	Evaluation System		
Lasturas	4	4	Theory		100	UA	28	70	Marks System		
Lectures	Lectures 4 4 Theory $100 \frac{OR}{CA} \frac{26}{12} \frac{76}{30} \frac{Marks System}{Marks System}$										

Paper Nat Paper Co			itistics						
TLM	Hrs	Credits	AM	Min	Max	AT	Min	Max	Evaluation System
Lasturas	4	Λ	Theory		100	UA	28	70	Marks System
Lectures	4	4	Theory		100	CA	12	30	Marks System

Paper Nar	ne: La	b. Course-	-2								
Practical Paper- I based on: Paper Code BCA201 & Paper Code BCA202											
Practical P	Practical Paper-II based on : Paper Code BCA203 & Paper Code BCA204										
Paper Coc	Paper Code: 206										
TLM	Hrs	Credits	AM	Min	Max	AT	Min	Max	Evaluation System		
UA Marks System											
Plactical	Practical 4 4 Practical 100 CA 40 100 Marks System										

Abbreviations: TLM – Teaching Learning Method; AM – Assessment Method; AT: Assessment Type; UA – University Assessment; CA – College Assessment; Hrs- Contact Hours per Week; Min – Minimum Marks; Max – Maximum Marks

Code	Subject	Hrs/Week		Paper Mark	U A	CA	Credits	Total	
		L	Т	Р	S	A			
101	Introduction to Information Technology	4	-	-	100	70	30	4	
102	Procedural Programming through 'C'	4	-	-	100	70	30	4	
103	Fundamentals Of Financial Accounting	4	-	-	100	70	30	4	
104	Business Communicatio n	4	-	-	100	70	30	4	
105	Discrete Mathematics	4	-	-	100	70	30	4	
106	Lab Course -1 Practical Paper- I based on Paper Code BCA101 Practical Paper- II based on Paper Code BCA102	-	-	4	100		100	4	
Total		20	-	4	600			24	24 credit s

Credit System Structure for B.C.A- I Semester I

Abbreviations: L: lectures, T: Tutorials, P: Practicals; UA: University Assessment by End Semester Examination; CA: College assessment by Internal Continuous Examination; UA (University Assessment): University Theory paper shall be of 70 marks for 3.00 hrs duration; CA (College Assessment): The internal examination for Theory and Practical course.

Code	Subject	Hrs/Week			Paper	U	CA	Credits	Total
		L	Т	Р	Mark s	A			
201	OOP with C++	4	-	-	100	70	30	4	
202	Web Technology	4	-	-	100	70	30	4	
203	Financial Accounting with Tally	4	-	-	100	70	30	4	
204	Development of Human Skills	4	-	-	100	70	30	4	
205	Business Statistics	4	-	-	100	70	30	4	
206	Lab. Course-2 Practical Paper- I based on: Paper Code BCA201 & Paper Code BCA202 Practical Paper- II based on : Paper Code BCA203 & Paper Code BCA204	-	-	4	100		100	4	
Total		20	-	4	600			24	24 credits
BCA- I									
Sem I					600			24	24
Sem II					600			24	24
Total					1200			48	48 credits

Credit System Structure for B.C.A- I Semester II

Abbreviations: L: lectures, T: Tutorials, P: Practical; UA: University Assessment by End Semester Examination; CA: College assessment by Internal Continuous Examination; UA (University Assessment): University Theory paper shall be of 70 marks for 3.00 hrs duration; CA (College Assessment): The internal examination for Theory and Practical course.

7. Internal Evaluation

The internal evaluation will be of 30 marks which will consists of following heads. The internal evaluation should be done accordingly and marks should be send to university.

Internal	Marks		
Attendance	05 Marks		
2 Class & 2 Home Assignments	10 Marks		
Seminar/ Group Exercise	10 Marks		
Mid Test	05 Marks		
Total	30 Marks		

8. Standard of Passing:

The student has to secure a minimum of 4.0 grade points (Grade C) in each paper. A student who secures less than 4.0 grade point (39% or less marks, Grade FC/FR) will be declared fail in that paper (subject) and shall be required to reappear for respective paper.

A student who failed in University Examination (Theory) & passed in internal assessment of a same paper (subject) shall be given FC Grade. Such student will have to appear for University Examination only.

A student who fails in Internal Assessment and passed in University examination (Theory) shall be given FR Grade. Such student will have to appear for both University examination as well as internal assessment.

Passing Criteria for ATKT:

1)	A Candidate who fails at Sem-I examination will be allowed to keep term for Sem-II examination.
2)	A Candidate who fails in not more than Four heads of passing including aggregate of
	First Year (Sem-I&II) exam will be permitted to keep term in the second year.
3)	A Candidate who fails at Sem-III examination will be allowed to keep terms for Sem-IV
	examination.
4)	A Candidate who fails in not more than Four heads of passing including aggregate of
	Second Year (Sem-III&IV) exam will be permitted to keep term in the Third year.
	However while going to third year i.e. Vth Semester a candidate should clear all
	subjects of first year (i.e.Sem-I&II taken together)
5)	A Candidate who fails at Sem-V examination will be allowed to keep term for Sem-VI
	examination

9. Conversion of Marks into Grades:

A table for the conversion of the obtained by students in each paper (out of 100) to grade and grade points is given below:

Sr. No.	Range of Marks	Grade	Grade Points
1	80 - 100	0	10
2	70-79	A +	9
3	60 - 69	А	8
4	55 - 59	B +	7
5	50 - 54	В	6
6	45 - 49	C +	5
7	40 - 44	С	4
8	<=39	FC	0 failed in Semester Exam
9	<=39	FR	0 failed in Internal
			Assessment

Calculation of Grade Point Average (GPA):

1. Grade Point Average at the end of a semester (SGPA)

 $(G1 X C1) + (G2 X C2) + \dots$

SGPA= —

 \sum Ci $\,$ (i.e. the total number of credits offered by the student during a semester)

2. Cumulative Grade Point Average (CGPA) (G1 X C1) + (G2 X C2)+ CGPA=

 \sum Ci (i.e. the total number of credits offered by the student upto and including the semester for which CGPA is calculated)

3. Final Grade Point Average (FGPA) will be calculated in the similar manner for the total number of credits offered for completion of the said course.

Where Ci: Credits allocated for the ith course

Gi: Grade point scored in ith paper (subject)

10. Conversion of average grade points into grades:

The student's performance of course will be evaluated by assigning a letter grade on ten points scale as given below:

SGPA/CGPA/FGPA	Letter
	Grade
9.5 - 10	0
8.5 - 9.4	A +
7.5 - 8.4	А
6.5 - 7.4	B +
5.5 - 6.4	В
4.5 - 5.4	C +
4.0 - 4.4	С
<=3.9	FC
	FR