

Harikisan Jajoo Education Sanstha's

#### COLLEGE OF MANAGEMENT AND COMPUTER SCIENCE, YAVATMAL

13/4-A, Behind Naringe Nagar, Dhamangaon Road, Yavatmal-445001 (M.S.)

Recognized by Govt. of Maharashtra,
Affiliated to Sant Gadge Baba Amravati University
and Approved by AICTE

ISO Certification: 9001:2015

Website:-https://cmcs.hjes.in

1.2.1 Percentage of Programmes with CBCS/Elective

Implementation

9423131946

Address: Behind Naringe Nagar, Dhamangaon Road, Yavatmal 445001

www.cmcs.hjes.in

cmcs457@sgbau.ac.in

#### TO WHOMSOEVER IT MAY CONCERN

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented.

The Institution is affiliated to Sant Gadge Baba Amravati University, Amravati. The Institution does not implement Choice Based Credit System (CBCS) in any of its program. However, the Institution implements elective course system for two of its programmes: MBA and M.Sc. (Computer Science).



College Of Management And Computer Science, Yavatmal.

M.Sc. Computer Science

Prospectus No. 20161216

## संत गाडगे बाबा अमरावती विद्यापीठ

SANT GADGE BABA AMRAVATI UNIVERSITY

(FACULTY OF SCIENCE)

#### PROSPECTUS

MASTER OF SCIENCE IN COMPUTER SCIENCE Semester-I & III, Winter 2015 Semester-II & IV, Summer-2016



2015

(Visit us at www.sgbau.ac.in)

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M.Sc. (Computer Science) Prospectus No.20161216

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roject	4MCS5 Lab VII - Based on 4MCS1 and 4MCS2	1. 1. 1. 1. 1. (GIC)	(2) Digital Image Processing	4MCS4 (1) Mobile Communications	4MCS3 Network Security	4MCS2 Design and Analysis of Algorithms	4MCS1 Artificial Intelligence and Expert Systems	(CBCS)	3MCS6 Lab VI - Based on 3MCS3	3MCS5 Lab V - Based on 3MCS1 and 3MCS2	(2) Theory of Computation	3MCS4 (1) Distributed Operating System(GIC)
27	26	25	23	23	22	21	ls 19		19	19	18	17

12.

AND

Whereas, the admission of students in the above pattern at M.Sc. Part-I (Semester-I) of all subjects in the faculty of Science are to be made in the Academic Session 2010-11.

Now, therefore, I, Dr. Kamal Singh, Vice Chancellor of Sant Gadge Baba Amravati University, in exercise of powers conferred upon me under sub-section (8) of section 14 of the Maharashtra Universities Act., 1994, do hereby direct as under:

- This Direction may be called "Scheme for Choice Based Credit System (CBCS) and Awarding Grades to the Post Graduate Students in the Faculty of Science, Direction, 2010.
- This Direction shall come into force with effect from the examination as shown below for all subjects for the Examinations leading to the Degree of Master of Science in the faculty of Science-
- (i) Winter 2010 examination for M.Sc. Part-I, Semester-I,
- (ii) Summer-2011 examination for M.Sc. Part-I, Semester-II,
- (iii) Winter-2011 examination for M.Sc. Part-II, Semester-III,
- (iv) Summer-2012 examination for M.Sc. Part-II, Semester-IV.
- The detailed Scheme for Choice Based Credit System (CBCS) and Awarding Grades to the Post Graduate students in the Faculty of Science is as given below-

#### I. The CBCS System

All Programmes (named after the Core subject) mentioned in para 9 of Ordinance No. 4 of 2008 shall be run on Choice Based Credit System (CBCS) and the grades in 7 point scale will be awarded to the students. It is an instructional package developed to suit the needs of students to keep pace with the developments in higher education and the quality assurance expected of it in the light of liberalization and globalization in higher education.

### II. Credits and Degrees

 A candidate who has successfully completed all the core courses Compulsory, Elective/ Specialised courses and project prescribed and optional approved by the University for the programme

16

and accumulated not less than 72 (52 core and elective) Credits and who has put in the minimum residence time shall be eligible to receive the degree.

ii) One Credit shall mean one teaching period per week for one semester (of 16 weeks) for theory courses and one laboratory session of two periods / week for one semester. One teaching period shall be of 60 minutes duration including 10 minutes for discussion / movement.

#### III. Courses

to a particular programme must successfully complete to receive the degree. There may be two kinds of core courses: The hard-core courses which cannot be substituted by any other course and which must be successfully completed and soft-core courses which may be substituted by equivalent courses from the same department. In all P.G. programmes a project with 03 credits shall be included. The project may include a viva-voce examination with a credit of 1, Normally no theory course shall have more than 4 credits.

## (ii) Elective Course: Means a optional course from the basic subject of Stockies; ion.

The core credits for any P.G. programme (inclusive of hard-core, soft-core and project) shall not exceed 60 credits and shall not be less than 48 credits. Each Board of Studies shall specify the corecredit load for their respective programme apart from approving syllabi, for all the courses offered by the department.

### (iii) General Interest Course (GIC)

The General Interest Course shall be the choice of student. The student who choose the GIC shall have to register for it on payment of fees as prescribed by the University.

The Departmental Committee shall follow a selection procedure on a first come first served basis, fixing the maximum number of students, after counselling to the students etc. to avoid overcrowding to particular course(s) at the expense of some other courses.

Each Course is designed such that it includes lectures / tutorials / laboratory or field work / Seminar / Practical training / Assignments / Term paper / Report writing or review of literature and any other innovative practice etc., to meet effective teaching and learning needs.

VIII. Total credits per semester :-

For all subjects other than Mathematics, Biotechnology & Computer Science

Table-I

116	26 or 30	26 or 30	26 or 30	26	Total
03	03	00	00	00	Project
16	04	04	04	04	I.A.
21	03	90	06	90	Lab. Course
12	04	04	04	00	GIC
16	04	04	04	04	Elective
48	12	12	12	12	Core
	Sem-IV	Sem-III	Sem-II	Sem-I	
Total		lits	Credits		Course

#### Table-II

#### For Mathematics

Total	Project	Assessment	Internal	GIC	Elective Courses	Core courses		Course
25	and the same		05		08	12	Sem-I	
25 or 29			05	04	08	12	Sem-II	Credits
25 or 29			05	04	80	12	Sem-III	S
25 or 33	04		05	04	08	12	Sem-IV	
116	04		20	12	32	48		Total

#### Table-III

#### For Biotechnology

Total	Assessment	Internal	Assignment	Project	Seminar	Lab courses	Elective Courses	Core courses		Course
40						24		16	Sem-I	
40					01	18	9	12	Sem-II	Credits
35		02	02		01	18		12	Sem-III	S
35				06		12	9	08	Sem-IV	
150		02	02	06	02	72	18	48		Total

20

Table-IV
For Computer Science

Total	Project	I.A.	Lab. Course	GIC	Elective	Core	193	Course
31	1	-	06	1	-	25	Sem-I	
31	1	ţ	06	1	05	20	Sem-II	Cre
31	I	ı	06	05	05	15	Sem-III	Credits
26	04/02	02	03	1	05	10	Sem-IV	
119	06	02	22	05	15	70		Total

#### IX. Grade Awards :-

performance of the student to provide letter grade for each course and overall grade for the Master's Programme. Grade points are based on the total number of marks obtained by him/her in all the heads of examination of the course. These grade points and their equivalent range of marks are shown separately in Table-I. The performance of the student in theory, practical, internal assessment, subjects shall be evaluated in accordance with following Table-I.

TABLE-I

Grade	Range of Marks	<b>Grade Points</b>	Remarks
	obtained out of 100		(Not to be displayed
	or Equivalent fraction		On transcripts)
0	90-100	10	Outstanding
A+	80-89	9	Excellent
A	70-79	∞	Very Good
B+	60-69	7	Good
В	55-59	6	Fair
C+	50-54	Sı	Average
C	40-49	4	Below Average
Ŧ	Below 40	0	Fail
			The second name of the second na

#### Appendix-M

# Scheme of Teaching and Examination under C.B.C.S. for the subject Computer Science M.Sc. (Computer) SEMESTER PATTERN M.Sc.Part-I (SEMESTER-I)

T: Lectures, P: Practical, TU: Tutorial/Assignment; G.I.C. - General Interest Course, C-Core

S	Subject	Paper	Course	1	Hrs/	Cr	Credits					Examination Scheme	n Schen	TC .			
Z	Code			V	/eek					Theory	У				Practical	tica	1
								Paper	Max	Max	Total	Min	-	Max	Max	L	Total
					P/	Theory	Practical	Hrs	External;	Internal		Passing Grada Points		Marks	Marks		
					UT				Main	CAIDIA		Sidds to		I Idelical	Ass		
_	1MCS-1	1	C	S	T	ተታነ	ı	3 Hrs	100	ſ	100	40 4.	4.00				
2	1MCS-2	П	С	S	1	Si	1	3 Hrs	100	r	100		4.00				
IJ	1MCS-3	III	0	5	,	5	,	3 Hrs	100		100	40 4.	4.00				
4	IMCS-4	VI	С	S	,	(J)	t	3 Hrs	001	1	100		4.00	14			
S	1MCS-5	٧	C	5	f	Ŋ.	1	3 Hrs	100	1	100	40 4.	4.00				
6	IMCS-6	Lab-I	1		7		03										
7	IMCS-7	Lab-II	1	,	7	,	03			1				100	-	100	00
		Total		25	14	25	96							100		10	100
Total Cradite: All	andite An										The second secon						

#### Total Credits: 40

# Scheme of Teaching and Examination under C.B.C.S. for the subject Computer Science M.Sc. (Computer) SEMESTER PATTERN M.Sc.Part-I (SEMESTER-II)

Appendix-N

T: Lectures, P: Practical, TU: Tutorial/Assignment; G.I.C. - General Interest Course, C-Core

7	SHOICCI	T alloca	COLLING				7					HILKX	Examination Scheme	THC.			
Z	Code			Week	æk					Theory					Practical		
-								Paper	Max	Max	Total	Min	5	Max	Max	Total	Min
				Т	P/	Theory	Practic	Hrs	Theory	Internal		Passing	ame	Marks	Marks		Passing
					UT		<u>a</u>					Grade Points	Points	Practical	Int.		Grac
															Ass		Poin
-	2MCS-1	VΙ	С	S	3	Si	1	3 Hrs	100		100	40	4.00				
2	2MCS-2	IIA	С	5	T.	5	ı	3 Hrs	100	1	100	40	4.00				
ů,	2MCS-3	VIII	С	Si	1	S		3 Hrs	100	1	100	40	4.00				
42	2MCS-4	XI	0	Ŋ.	ı	5	1	3 Hrs	100	·	100	40	4.00				
5	2MCS-5	X	E or	5	1	S		3 Hrs	100		100	40	4.00				
	Or 2GIC-X		GIC														
6	2MCS-6	Lab-III	1	,	7	1	03	1	ı		ı						
7	2MCS-7	Lab-IV	1	ı	7	2	03	,			1			100		100	40 4.0
				25	14	25	06							100	,	100	40 4.0

# Scheme of Teaching and Examination under C.B.C.S. for the subject Computer Science M.Sc. (Computer) SEMESTER PATTERN M.Sc. (Part-II (SEMESTER-III)

Appendix-O

	Subject Code Code 3MCS-1 3MCS-2 3MCS-3	S S				1 31	2 31	3 31	4 3MCS-4		5 31			
Paper  Paper  XII  XIII		Course				С	C	С	E	Eor	GIC		1	i i
Paper Course  XII C  XIII C	Course C	Ament; G	We		Н	5	S	5	5	5		,		
Ctical, TU: Tutorial/Assignment; G Paper Course Hr We  XI C 5  XII C 5  XIII C 5	utorial/Assignment; G Course  T We Course T C C S C S	1	ek		.I.∩	ı	Ē	ı	ï	•		7	7	
Course Hrs/ Week  Course T P/ Course T P/ Course T S -	1	eneral Inter-			Theory	5	S	5	5	5		,	,	35
1	1	dits Course			Pract.		i					03	03	
Credit Credit	1			Paper	Hrs.	3 Hrs	3 Hrs	3 Hrs	3 Hrs	3 Hrs				
Credits  Theory Pract.  5  5  -  5 -  5 -  5 -  5 -  5 -  5	Credits  Theory Pract.  5  5  - 5			Max	Theory	100	100	100	100	100				
Credits  Credits  Paper Hirs.  5  5  -  3 Hrs  3 Hrs	Credits  Credits  Paper Hirs.  5 - 3 Hrs  3 Hrs		The	Max	Internal	3	,	ı	,			1		
- General Interest Course  Credits  Paper Max Max  Ilrs. Theory Intern  5 - 3 Hrs 100 -  5 - 3 Hrs 100 -  5 - 3 Hrs 100 -	- General Interest Course  Credits  Paper Max Max  Paper Interr  Paper Max Max  Itrs. Theory Interr  3 Hrs 100 -  3 Hrs 100 -  3 Hrs 100 -		ory	Total		100	100	100	100	100				
Credits   Theory   Paper   Max   Max   Total	Credits   Theory   Paper   Max   Max   Total	xaminat		~	Pas Grade	40	40	40	40	40				
Credits   Theory   Paper   Max   Max   Total	Credits   Theory   Paper   Max   Max   Total	ion Schem		lin	Points	4.00	4.00	4.00	4.00	4.00				
Credits   Theory   Paper   Max   Max   Total	Credits   Theory   Paper   Max   Max   Total	G		Мах	Marks Practical								100	100
Credits   Ex   Credits   Ex	Credits   Examination Scheme   Credits   Examination Scheme   Examination Scheme   Examination Scheme   Theory   Theory   Theory   Internal   Passing   Grade Points   Fassing   Crade Points   Crade Points   Fassing   Cr		Prac	Max	Marks Int. Ass									1
Credits   Examination Scheme   Examination Scheme	Credits   Examination Scheme   Examination Scheme		tical	Total									100	100
Credits   Examination Scheme   Practic	Credits   Examination Scheme   Practic			Min	Passing Grade Points								40 4	40 4

T: Lectures, P: Practical, TU: Tutorial/Assignment nt; G.I.C. - General Interest Course

Scheme of Teaching and Examination under C.B.C.S. for the subject Computer Science M.Sc. (Computer) SEMESTER PATTERN

M.Sc. Part-II (SEMESTER-IV)

Appendix-P

S	Subject	Paper	Course	H	Hrs/	Credits	dits					Examinat	Examination Scheme	TO .			
Z	Code			W	Week					Theory	ory					Prac	Practical
								Paper	Max	Max	Total	N	Min	Max	Z	ax	ax Total
				T	P/	Theory	Pract.	Hrs	Theory	Internal		Pas Grade	Passing Grade Points	Marks Practical	Marks Int.	S	KS
					Č							municipal manufacture of			Ass	The second	
	4MCS-1	XVI	C	5		5	1	3 Hrs	100	,	100	40	4.00				
2	4MCS-2	IIAX	С	5	,	5	,	3 Hrs	100	,	100	40	4.00				
ę,	4MCS-3	XVIII	E or	Si	1	S	ı.	3 Hrs	100	1	100	40	4.00				
	Or AGIC-7		GIC														
4	4MCS-4	Lab-VII	1		7	1	03	4 Hrs		1			,	100			100
5	4MCS-5	Project	,	,	7	,	03+1			1				100	50		100
6	4MCS-6	Seminar		02		1	1+10			1			•	100	50		150
7	4MCS-7	Internal		06			02		ı			40	4.00		50		50
		Assessement													1		a
		Total		23	14	15											
					3												

**Total Credits: 35** 

00

Appendix-Q
List of General Interest Courses (GIC) to be opted

## by the student/s in Semester-II

Sr.No.	Subject	Subject Code Elective	Equivalent General Interest Course
			Code
1	2	3	4
1	Chemistry	2CHE3	2GIC-1
		2CHE4	2GIC-2
2	Physics	2PHY3	2GIC3
		2PHY4	2GIC4
S	Mathematics	2MTH4	2GIC5
	7 1	2MTH5	2GIC6
4	Zoology	2Z003	2GIC7
		2Z004	2GIC8
5	Botany	2BOT3	2GIC9
		2BOT4	2GIC-A
6	Statistics	2SCA3	2GIC-B
		2SCA4	2GIC-C
7	Biotechnology	2BTB3	2GIC-D
		2BTB4	2GIC-E
8	Computer Science	2CMS3	2GIC-F
		2CMS4	2GIC-G
9	Microbiology	2MCB3	2GIC-H
		2MCB4	2GIC-I
10	Electronics	2ELE3	2GIC-J
		2ELE4	2GIC-K
11	Biochemistry	2BMC3	2GIC-L
		2BMC4	2GIC-M
12	Geology	2GEO3	2GIC-N
		2GE04	2GIC-O
13	Bioinformatics	2BIT3	2GIC-P
		2BIT4	2GIC-Q
14	Environmental Science	2ENV3	2GIC-R
		2ENV4	2GIC-S
15	Geoinformatics	2GIT3	2GIC-U
		2GIT4	2GIC-V
16	Computer Software	2CSW3	2GIC-W
		2CSW4	2GIC-1A
17	Remote Sensing and GIS	2RSG3	2GIC-1B
		2RSG4	2GIC-1C
18	Pharmaceutical	2PCH3	2GIC-1D
	Chemistry	2PCH4	2GIC-1E

Note: Title of the paper shall prescribed in the respective prospectuses.

M.B.A. Exam. 2013 (Semester Pattern)

Prospectus No. 2013156

### SANT GADGE BABAAMRAVATI UNIVERSITY संत गाडगेबाबा अमरावती विद्यापीठ

#### (FACULTY OF वाणिज्य विद्याशाखा अभ्यासक्रमिका COMMERCE)

### PROSPECTUS

## MASTER OF BUSINESS ADMINISTRATION

(Semester Pattern Two Year Degree Course) Semester - II & IV Exam. Semester - I & III Exam. Summer - 2014 . Winter-2 2013



2013

Visit us at www.sgbau.ac.in

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Amravati - 444 602

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#### Prospectus No.2013156 M.B.A.(Semester Pattern)

#### フしモン

MBA/301 MBA/3101/F MBA/3102/F MBA/3103/F	MBA/201 MBA/202 MBA/203 MBA/204 MBA/205 MBA/206 MBA/207	MBA/101 MBA/102 MBA/103 MBA/104 MBA/105 MBA/106 MBA/107		Paper No.
Semester-III  Business Law Indian Financial System Banking System Working Capital Management	Semester-II  Business Environment Research Methodology Human Resource Management Financial Management Marketing Management Production and Operations Management Logistic Management Management Management Science	Semester-I Principles and Practices of Management Managerial Economics Managerial Skills Development Accounting for Managers Organizational Behaviour and Effectiveness Business Ethics Management Information System Quantitative Methods	Special Note Pattern of Question Paper Direction No. 26./2011 Direction No. 24/2012 Direction No. 37 / 2012	Title of the Paper
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	Industry	
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1	Ergonomics	MBA/3403/P
55-56	-	MBA/3402/P
54-55	Purchasing and Materials Management	MBA/3401/P
53-54	Performance Management	MBA/3306/H
52-53	Management of Training & Development	MBA/3305/H
52	Human Resource Development	MBA/3304/H
51	Compensation Management	MBA/3303/H
50-51		MBA/3302/H
49-50	Management of Industrial Relations	MBA/3301/H
48-49	Agro Business Marketing	MBA/3206/M
47-48	Brand Management	MBA/3205/M
46-47	Advertising Management	MBA/3204/M
45-46	Consumer Behaviour	MBA/3203/M
44-45		MBA/3202/M
43-44	International Marketing Strategy	MBA/3201/M
42-43	Risk Management	MBA/3106/F
42		MBA/3105/F
41	International Financial Management	MBA/3104/F

MBA/4505/HC MBA/4506/HC	MBA/4503/HC MBA/4504/HC	MIBA/4502/HC	MBA/4501/HC	MBA/4406/OM	MBA/4405/OM	MBA/4404/OM	MBA/4403/OM	MBA/4402/OM	MBA/4401/OM	MBA/4306/OB	MBA/4305/OB	MBA/4304/OB	MBA/4303/OB		MBA/4302/OB	MBA/4301/OB	MBA/4206/SM	MBA/4205/SM	MBA/4204/SM	MBA/4203/SM	MBA/4202/SM	MBA/4201/SM	MBA/4106/CGF	MBA/4105/CGF	MBA/4104/CGF	MBA/4103/CGF		MBA/4102/CGF	MBA/4101/CGF	MBA/401		MBA/3606/SP S	
Information Technology in Health Care Hospital Support Services	Management of Clinical Services Economics of Health Care Management	Human Kesource Management for Health Care	Health Care Management & Administration	Management Project Management	Industrial Health And Disaster	Total Quality Management	Transportation Management	Applied Operations Research	Service Operations Management	International HRM	Knowledge Management	Corporate Leadership Management	Management Of Group Process	Intervention Strategies	Organizational Development and	Human Behaviour at Work Place	International Marketing Environment	Rural Marketing	Retail Marketing	Marketing for Non-Profit Organisations	Marketing Of Services	Sales Promotion Management	Insurance Management	Foreign Exchange Market	Management Of Financial Services	Financial Derivatives	Management	Security Analysis And Portfolio	Financial Decision Analysis	Strategic Management	Semester-IV	Sports Media Management	
103-104 104-105	100-101	99-100		97-98	96-97	95-96	94-95		92-93	92	90-92	90	89-90		88-89	86-88	85-86	84-85	83 - 84	83	81-82	81	80-81	79	78	T		76-77	75	74		73	