



Harikisan Jajoo Education Sanstha's

COLLEGE OF MANAGEMENT AND COMPUTER SCIENCE, YAVATMAL

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

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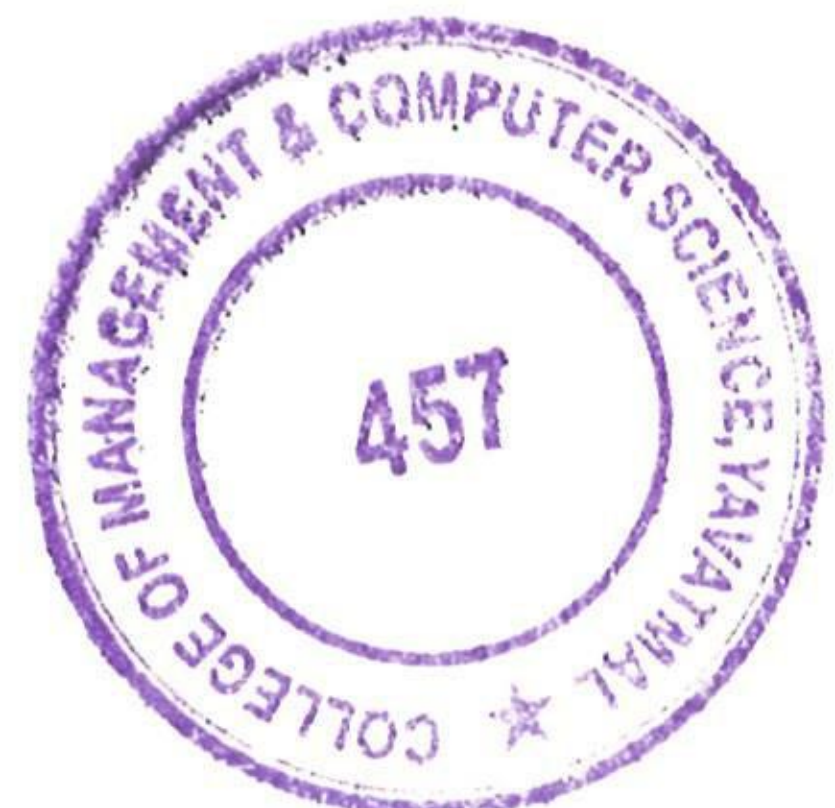
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Website :- <https://cmcs.hjes.in>

**1.3.2 Average percentage of
courses that has experimental
learning**

1.3.2. Average percentage of courses that include experimental learning through project work/field work/internship during the last five years

Year	Program Name	Total Courses	Experimental Courses	Percentage	Average Percentage
2015-16	M.Sc	24	1	3.846153846	3.78869595
	MBA	56	2		
	BBA	25	1		
	BCA	51	2		
2016-17	M.Sc	24	1	3.846153846	
	MBA	56	2		
	BBA	25	1		
	BCA	51	2		
2017-18	M.Sc	24	1	3.797468354	
	MBA	56	2		
	BBA	27	1		
	BCA	51	2		
2018-19	M.Sc	24	1	3.75	
	MBA	56	2		
	BBA	29	1		
	BCA	51	2		
2019-20	M.Sc	24	1	3.703703704	
	MBA	56	2		
	BBA	31	1		
	BCA	51	2		



Principal
 College Of Management And
 Computer Science, Yavatmal

B.C.A. Part-I, II & III
(Sem-I to VI)

Prospectus No. 20131221

संत गाडगे बाबा अमरावती विद्यापीठ
SANT GADGE BABA AMRAVATI UNIVERSITY

विज्ञान विद्याशाखा
(FACULTY OF SCIENCE)

PROSPECTUS
OF
B.C.A. PART-I, II & III (SEMESTER-I to VI)
SEMESTER-I, III & V EXAM. WINTER-2012 &
SEMESTER-II, IV & VI EXAM. SUMMER-2013 &
ONWARDS



2012

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(Prospectus No.20131221)

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SEMESTER-IV

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- Unit-I** : **80286 and Instructions:** Salient features of 80286 microprocessor, Internal Architecture, addressing modes, Interrupts, real mode, protected mode, privilege, protection, instruction set features.
- Unit-II** : **80386:** Register organization of 80386, addressing modes, data types, real addressing mode, protected mode, segmentation, paging, virtual 8086 mode, **Introduction to 80486 and 80586:** Salient features, register organization, flag register.
- Unit-III** : **Microcontroller:** Introduction, comparison of microcontroller & microprocessor, block diagram of 8051 & study of internal blocks, reset clocks, registers, flags & internal memory, I/O ports, counter & timers, interrupts.
- Unit-IV** : 8051 Instruction Set and Bit and Byte Level programming: Instruction set, addressing mode, data transfer instruction, arithmetic & logic instructions, JUMP & CALL, programming of Bit & Byte, Additions, subtraction, multiplication, division.
- Unit-V** : **8051 Interfacing & Application :**
Basics of serial communication, interfacing with RS-232C interfacing a DAC, interfacing to the 8255, power down mode.

References:

1. The 8086/88, 80186, 80286, 80386, 80486, Pentium and Pentium Pro microprocessors By Barry B. Bray (PHI)
2. Advanced Microprocessors and Peripherals: Ray and Bhurchandi (PHI)
3. The 8051 Microcontroller by Kenneth J. Ayala (Penram)
4. The 8051 Microcontroller by Mazidi and Mazidi (LPE)
5. The 8051 Microcontroller by Predko

PRACTICALS : (4SP3 Lab-III based on 4ST5) Atleast 15 practicals to be performed by each student based on microcontroller 8051 Ic

27. ENVIRONMENTAL STUDIES

Total Marks : 100

PART-A

SHORT ANSWER PATTERN 25 Marks

1. **The Multidisciplinary nature of environmental studies**
Definition, scope and importance.
Need for public awareness. (2 lecture hours)
2. **Social Issues and the Environment**
 - From Unsustainable to Sustainable development
 - Urban problems related to energy
 - Water conservation, rain water harvesting, watershed management
 - Resettlement and rehabilitation of people; its problems and concerns.
 - Case studies.
 - Environmental ethics : Issues and possible solutions.
 - Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
 - Wasteland reclamation.
 - Consumerism and waste products.
 - Environment Protection Act.
 - Air (Prevention and Control of Pollution) Act.
 - Water (Prevention and Control of Pollution) Act.
 - Wildlife Protection Act.
 - Forest Conservation Act.
 - Issues involved in enforcement of environmental legislation.
 - Public awareness. (7 lecture hours)
3. **Human Population and the Environment**
 - Population growth, variation among nations.
 - Population explosion - Family Welfare Programme.
 - Environment and human health.
 - Human Rights.
 - Value Education.
 - HIV / AIDS.
 - Women and Child Welfare.
 - Role of Information Technology in Environment and human health.
 - Case Studies. (6 lecture hours)

PART-B
ESSAY TYPE WITH INBUILT CHOICE 50 Marks

4. Natural resources :
Renewable and non-renewable resources :

Natural resources and associated problems.

- Forest resources : Use and over exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
 - Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
 - Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
 - Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer - pesticide problems, water logging, salinity, case studies.
 - Energy resources : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources, Case studies.
 - Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
- Role of an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles. (8 lecture hours)

5. Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Producers, consumers and decomposers.
- Energy flow in the ecosystem.
- Ecological succession.
- Food chains, food webs and ecological pyramids.
- Introduction, types, characteristic features, structure and function of the following ecosystem :-
- Forest ecosystem
- Grassland ecosystem
- Desert ecosystem
- Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 lecture hours)

6. Biodiversity and its conservation

- Introduction - Definition : genetic, species and ecosystem diversity.

- Biogeographical classification of India.
- Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values.
- Biodiversity at global, National and local levels.
- India as a mega-diversity nation.
- Hot-spots of biodiversity.
- Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
- Endangered and endemic species of India.
- Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity. (8 lecture hours)

7. Environmental Pollution

- Definition
- Causes, effects and control measures of :-
 - Air pollution
 - Water pollution
 - Soil pollution
 - Marine pollution
 - Noise pollution
 - Thermal pollution
 - Nuclear hazards
- Solid Waste Management : Causes, effects and control measures of
- Role of an individual in prevention of pollution.
- Pollution case studies.
- Disaster management : floods, earthquake, cyclone and landslides. (8 lecture hours)

PART-C

ESSAY ON FIELD WORK 25 Marks

8. Field work

- Visit to a local area to document environmental assets - river / forest / grass land / hill / mountain
- Visit to a local polluted site - Urban / Rural / Industrial / Agricultural
- Study of common plants, insects, birds.
- Study of simple ecosystems - pond, river, hill slopes, etc.

(5 lecture hours)

- (Notes : i) Contents of the syllabus mentioned under paras 1 to 8 shall be for teaching for the examination based on Annual Pattern.
- ii) Contents of the syllabus mentioned under paras 1 to 4 shall be for teaching to the Semester commencing first, and
- iii) Contents of the syllabus mentioned under paras 5 to 8 shall be for teaching to the Semester commencing later.

LIST OF REFERENCES :-

- 1) Agarwal, K.C., 2001, Environmental Biology, Nidi Publ. Ltd., Bikaner.
- 2) Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad - 380 013, India, Email : mapin@icenet.net (R)
- 3) Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p.
- 4) Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)
- 5) Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T., 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p.
- 6) De A.K., Environmental Chemistry, Wiley Eastern Ltd.
- 7) Down to Earth, Centre for Science and Environment (R)
- 8) Gleick, H.P. 1993, Water in Crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press. 473p.
- 9) Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Mumbai (R)
- 10) Heywood, V.H. & Watson, R.T. 1995, Global Biodiversity Assessment, Cambridge Univ. Press 1140p
- 11) Jadhav, H & Bhosale, V.M. 1995, Environmental Protection and Laws, Himalaya Pub. House, Delhi. 284 p.
- 12) Mckinney, M.L. & Schoch, R.M. 1996, Environmental Science Systems & Solutions, Web Enhanced Edition. 639 p.
- 13) Mhaskar A.K., Matter Hazardous, Techno-Science Publications (TB)
- 14) Miller T.G. Jr., Environmental Science, Wadsworth Publishing Co. (TB)
- 15) Odum, E.P., 1971, Fundamentals of Ecology, W.B.Saunders Co., U.S.A., 574p.
- 16) Rao M.N. & Datta A.K., 1987, Waste Water Treatment, Oxford & IBH Publ. Co. Pvt. Ltd. 345 p.
- 17) Sharma B.K., 2001, Environmental Chemistry, Goel Publ. House, Meerut.
- 18) Survey of the Environment, The Hindu (M)
- 19) Townsend C., Harper J., and Michael Begon, Essentials of Ecology, Blackwell Science (TB)
- 20) Dr. Deshpande A.P., Dr. Chudiwale A.D., Dr. Joshi P.P. & Dr. Lad A.B. : Environmental Studies, Pimpalpure & Company Pub., Nagpur.
- 21) डॉ. विठ्ठल धारपुरे : पर्यावरणशास्त्र, पिंपळपुरे अँड कंपनी पब्लिशर्स, नागपूर.
- 22) Trivedi R.K., Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards, Vol. I and II, Enviro Media (R)
- 23) Trivedi R.K. and P.K. Goel, Introduction to Air Pollution, Techno-Science Publications (TB)
- 24) Wagner K.D., 1998, Environmental Management, W.B.Saunders Co., Philadelphia, USA 499p.
(M) Magazine
(R) Reference
(TB) Textbook
- 25) Environmental Studies : R.Rajgopalan, Oxford Uni. Press, New Delhi, 2005

Syllabus Prescribed for B.C.A. Semester-V & VI**BCA-III Semester V****5ST1: Core Java****Unit I : Introduction to JAVA -**

Introduction to Java, Java Virtual Machine, Object Oriented Principle, Object and Classes, Java Keywords, Variable, Data types and Literals in Java, String, Operator and Casting, Control of Flow, (Selection Statements, Iteration Statements), Command Line Argument.

Unit II : Classes and inheritance:

Introduction to Class and Object, Method, Overloading Method, Constructor, Constructor Overloading, this Keyword, Introduction to Inheritance, Using Super, Multilevel Hierarchy, Abstract class, Using Final.

Unit III : Package and Interface: Package (Defining Package, Finding Package), Introduction to Interface, Defining, and Implementing of Interface, Predefined Package.

Unit IV : Exception Handling and Threads : Exception Handling, Type of Exception, Try, Catch, and Finally. Multiple Catch blocks, Nested Try Statements, throw, throws, Thread Model, Multithreading.

Unit V : Applet, AWT, Input Output Stream : Introduction to Applet, Applet Methods, Introduction to AWT (Working with Windows, Graphic, Text), GUI Components, Using AWT Controls, Layout Managers, and Menus, Event Classes, Event Listener Interface.

Books Suggested

1. Complete Reference (Java 2) – Herbert Schildt - Tata McGraw Hill
2. Java in a nut shell – Flanagan – Orielly Publication
3. Object oriented programming in Java by Dr.Thampi Wiley.
4. Java Programming (for absolute beginner) – Russell – PHI.
5. An Object Oriented Programming with Java – Thomas Wu, TMH.
6. Java Programming For Tim Absolute Beginners - Rt&Sell

Choices in tuning queries and views, DBMS Benchmarking. Security.

Unit-II : Concurrency control transactions and schedule, Serializability, Lock based concurrency control lock management, specialized locking techniques, control without locking.
Crash Recovery, Introduction to crash recovery, Log, Check pointing, Recovery from a system crash.

Unit-III : Parallel and distributed databases. Architectures for parallel databases, Parallel query Evaluation and optimization, Parallelizing individual operations, Introduction to distributed databases, Architecture, Fragmentation and Replication, Catalog management, Distributed Query processing, updating distributed data, Distributed transaction management, Distributed Concurrency control, Distributed recovery.

Unit-IV : **Object database Systems :** Objects, Identity, inheritance, Database Design for an ORDBMS, Storage and access methods, Query processing and optimization, Comparing RDBMS with OODBMS and ORDBMS.

Unit-V : **Data Warehousing**
Introduction, DSS and OLTP, Metadata Management in Data Warehouse. Related data structures, OLAP and Data Warehousing environment.
Data mining.
Introduction and application areas.

Books :

- 1) Database Management System -Raghu Ramkrishna McGraw Hill. International Editions.
- 2) Introduction to Database System by C.G.Date.

6SP1: LAB I-6ST1+6ST2: Minimum 8 practical on each.

The distribution of marks in Practical examination is given as:

- | | |
|--|-----------|
| (1) Program writing/ execution based on 6ST1 | 15 marks. |
| (2) Program writing/ execution based on 6ST2 | 15 marks. |
| (3) Practical Record | 10 marks. |
| (4) Viva-Voce | 10 marks. |

50 marks.

6SP2: LAB II-6ST3+6ST4: Minimum 8 practical on each.

The distribution of marks in Practical examination is given as:

- | | |
|--|-----------|
| (1) Program writing/ execution based on 6ST3 | 15 marks. |
| (2) Program writing/ execution based on 6ST4 | 15 marks. |
| (3) Practical Record | 10 marks. |
| (4) Viva-Voce | 10 marks. |

50 marks.

6SP3: LAB III-Project work with Report.

The distribution of marks in Practical examination is given as:

- | | |
|------------------------------|-----------|
| (1) Project Work with Report | 30 marks. |
| (2) Viva-Voce | 20 marks. |

50 marks.

M.Sc. Computer Science

Prospectus No. 20161216

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SANT GADGE BABA AMRAVATI UNIVERSITY

विज्ञान विद्याशाखा
(FACULTY OF SCIENCE)

PROSPECTUS

OF

MASTER OF SCIENCE IN
COMPUTER SCIENCE

Semester -I & III, Winter 2015

Semester-II & IV, Summer-2016



2015

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I N D E X

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

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4MCS6 : Project

The subject of the project will be given to the student independently on any current topic belonging to the subject. The topic should be assigned at the beginning of the semester. The examinee shall be required to produce two typed hard-bound and one soft copy (C.D.) copies of project report signed by teacher in-charge and certified by head of the department as bonafide work of him/her.

Distribution of Marks:

- | | | | |
|----|----------------------|---|----------|
| 1. | Project Submission | : | 40 marks |
| 2. | Project Presentation | : | 40 marks |
| 3. | Viva | : | 20 marks |

Total : 100 marks

संत गाडगे बाबा अमरावती विद्यापीठ

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भाग-१, भाग-२ व अंत्य
(त्रिवर्षीय अभ्यासक्रम)

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OF
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16. For teaching of the subject, there shall be atleast two hour per week. For teaching the subject to the regular candidates, a full time approved teacher of the University and or a person having Postgraduate Degree in any faculty with second class shall be considered eligible.

17. For teaching of the subject, additional fee to be charged to regular candidate shall be as prescribed by the University.

18. Every College/ University Teaching Department shall charge additional fee of Rs. 100/- to every Student of the subject Environmental studies. Out of this Rs. 100/-, the College/University Teaching Department shall have to pay Rs. 25/- to the University as an examination fee of each candidate for the subject environmental studies.

19. The Grade secured by an examinee in the examination of this subject shall not be considered for providing the facility of A.T.K.T. in next higher class.

20. The provisions of Ordinance No. 18/2001 shall not be applicable for securing a grade or higher grade in the examination of this subject.

21. Result of the Final Year of the respective Degree shall not be declared of an examinee unless he/she secures any one of the grade in the examination of subject.

Provided an examinee admitted to Five Year LL.B. course desiring not to continue his/her education beyond Sixth Semester of the said course shall have to secure any one of the grade in the examination of the subject otherwise his/her result of Sixth Semester for awarding B.A. degree shall not be declared.

22. Certificate shall be issued, to the successful examinees in the subject Environmental Studies, after the examination.

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**SYLLABUS FOR
ENVIRONMENTAL STUDIES
AT BACHELOR DEGREE LEVEL**

PART-A

SHORT ANSWER PATTERN

25 Marks

Total Marks : 100

1. The Multidisciplinary nature of environmental studies

- Definition, scope and importance.
- Need for public awareness.

(2 lecture hours)

2. Social Issues and the Environment

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns.
- Case studies.
- Environmental ethics : Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- Wasteland reclamation.
- Consumerism and waste products.
- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and Control of Pollution) Act.
- Wildlife Protection Act.
- Forest Conservation Act.
- Issues involved in enforcement of environmental legislation.
- Public awareness.

(7 lecture hours)

3. Human Population and the Environment

- Population growth, variation among nations.
- Population explosion - Family Welfare Programme.
- Environment and human health.
- Human Rights.
- Value Education.
- HIV / AIDS.
- Women and Child Welfare.
- Role of Information Technology in Environment and human health.
- Case Studies.

(6 lecture hours)

**PART-B
ESSAY TYPE WITH INBUILT CHOICE 50 Marks**

4. Natural resources :

Renewable and non-renewable resources :

- Natural resources and associated problems.
- Forest resources : Use and over exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
- Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
- Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer - pesticide problems, water logging, salinity, case studies.
- Energy resources : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources, Case studies.
- Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.

· Role of an individual in conservation of natural resources.

· Equitable use of resources for sustainable lifestyles.

(8 lecture hours)

5. Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Producers, consumers and decomposers.
- Energy flow in the ecosystem.
- Ecological succession.
- Food chains, food webs and ecological pyramids.
- Introduction, types, characteristic features, structure and function of the following ecosystem :-
- Forest ecosystem
- Grassland ecosystem
- Desert ecosystem
- Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 lecture hours)

6. Biodiversity and its conservation

- Introduction - Definition : genetic, species and ecosystem diversity.
- Biogeographical classification of India.
- Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values.
- Biodiversity at global, National and local levels.
- India as a mega-diversity nation.
- Hot-spots of biodiversity.

- Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
- Endangered and endemic species of India.
- Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity. (8 lecture hours)

7. Environmental Pollution

- Definition
- Causes, effects and control measures of :-
 - Air pollution
 - Water pollution
 - Soil pollution
 - Marine pollution
 - Noise pollution
 - Thermal pollution
 - Nuclear hazards
- Solid Waste Management : Causes, effects and control measures of
 - Role of an individual in prevention of pollution.
 - Pollution case studies.
 - Disaster management : floods, earthquake, cyclone and landslides. (8 lecture hours)

PART-C

ESSAY ON FIELDWORK 25 Marks

8. Field work

- Visit to a local area to document environmental assets - river / forest / grass land / hill / mountain
- Visit to a local polluted site - Urban / Rural / Industrial / Agricultural
- Study of common plants, insects, birds.
- Study of simple ecosystems - pond, river, hill slopes, etc. (5 lecture hours)

- (Notes : i) Contents of the syllabus mentioned under paras 1 to 8 shall be for teaching for the examination based on Annual Pattern.
 ii) Contents of the syllabus mentioned under paras 1 to 4 shall be for teaching to the Semester commencing first, and
 iii) Contents of the syllabus mentioned under paras 5 to 8 shall be for teaching to the Semester commencing later.

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(M) Magazine

(R) Reference

(TB) Textbook

MB.A. Exam. 2013
(Semester Pattern)

Prospectus No. 2013156

संत गाडगेबाबा अमरावती विद्यापीठ
SANT GADGE BABA AMRAVATI UNIVERSITY

अभ्यासक्रमिका
वाणिज्य विद्याशाखा
(FACULTY OF COMMERCE)

PROSPECTUS OF

MASTER OF BUSINESS ADMINISTRATION

(Semester Pattern Two Year Degree Course)

Semester - I & III Exam. Winter-2013

Semester - II & IV Exam. Summer - 2014



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will be shown by the grade. The students getting 'D' grade fails in the paper.

Scheme of Examination of Dissertation

Assessment of papers M.B.A. 307 & M.B.A.407 i.e. Dissertation shall be done by internal and external examiners out of 100 marks distributed as 65 marks for dissertation and 35 marks for viva voce. The viva shall be conducted both by internal and external examiners

** Marks obtained in internal assessment papers will be converted in grades as per Table No. 1

The student getting 'D' grade will be declared as 'Fail' in the Dissertation.

17. A student appearing for M.B.A.Semester III & IV Examination will have to pay an additional fee of Rs.500/- for Dissertation in addition to usual Examination fees.

19. Examinees successful at the Semester-I, II & III Examination shall be entitled to receive a Certificate signed by the Registrar, and those successful at the Semester-IV Examination shall on payment of the prescribed fees, receive a Degree in the prescribed form signed by the Vice-Chancellor.

Appendix-A Master of Business Administration Course **Semester-I**

Subject Code	Name of Subject	Hrs/ Week	Credits	Examination Scheme								
				Duration of Exam Hours		External		Internal		Total		
				Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks	Max. Mark	Min. Agg. Mark	
MBA/101	Principles And Practice of Management	3	4	3	35	70	35	30	15	100		
MBA/102	Managerial Economics	3	4	3	35	70	35	30	15	100		
MBA/103	Managerial Skill Development	3	4	3	35	70	35	30	15	100		
MBA/104	Accounting for Managers	3	4	3	35	70	35	30	15	100		
MBA/105	Organisation Behaviour and Effectiveness	3	4	3	35	70	35	30	15	100		350
MBA/106	Business Ethics	3	4	3	35	70	35	30	15	100		
MBA/107	Management Information System	3	4	3	35	70	35	30	15	100		
MBA/108	Quantitative Methods	3	4	—	—	—	—	Internal Assessment Paper				
Total				24						700		350

Appendix-B Master of Business Administration Course **Semester-II**

Subject Code	Name of Subject	Hrs/ Week	Credits	Examination Scheme								
				Duration of Exam Hours		External		Internal		Total		
				Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks	Max. Mark	Min. Agg. Mark			
MBA/201	Business Environment	3	4	3	35	70	35	30	15	100		
MBA/202	Research Methodology	3	4	3	35	70	35	30	15	100		
MBA/203	Human Resources Management	3	4	3	35	70	35	30	15	100		
MBA/204	Financial Management	3	4	3	35	70	35	30	15	100		
MBA/205	Marketing Management	3	4	3	35	70	35	30	15	100		350
MBA/206	Production and Operations Management	3	4	3	35	70	35	30	15	100		
MBA/207	Logistics Management	3	4	3	35	70	35	30	15	100		
MBA/208	Management Science	3	4	—	—	—	—	Internal Assessment Paper				
Total				24						700		350

Appendix-C Semester-III

Subject Code	Name of Subject	Hrs/ Week	Credits	Examination Scheme							Total Max Mark	Min. Agg. Mark
				Duration of Exam Hours	External		Internal		Total			
					Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks				
MBA/301	Business Law	3	4	3	70	35	30	15	100			
MBA/3101/F	Indian Financial System	3	4	3	70	35	30	15	100			
MBA/3102/F	Banking System	3	4	3	70	35	30	15	100			
MBA/3103/F	Working Capital Management	3	4	3	70	35	30	15	100			
MBA/3104/F	International Financial Management	3	4	3	70	35	30	15	100			
MBA/3105/F	Investment Science	3	4	3	70	35	30	15	100			
MBA/3106/F	Risk Management	3	4	3	70	35	30	15	100			
MBA/3201/M	International Business Strategy	3	4	3	70	35	30	15	100			
MBA/3202/M	Sales & Distribution Management	3	4	3	70	35	30	15	100			
MBA/3203/M	Consumer Behavior	3	4	3	70	35	30	15	100			
MBA/3204/M	Advertising Management	3	4	3	70	35	30	15	100			
MBA/3205/M	Brand Management	3	4	3	70	35	30	15	100			
MBA/3206/M	Agriculture Marketing	3	4	3	70	35	30	15	100			
MBA/3301/H	Management of Industrial Relations	3	4	3	70	35	30	15	100	350		
MBA/3302/H	Human Relations & Legal Framework	3	4	3	70	35	30	15	100			
MBA/3303/H	Compensation Management	3	4	3	70	35	30	15	100			
MBA/3304/H	Human Resource Development	3	4	3	70	35	30	15	100			
MBA/3305/H	Management of Training & Development	3	4	3	70	35	30	15	100			
MBA/3306/H	Performance Management	3	4	3	70	35	30	15	100			
MBA/3401/P	Purchasing And Materials Management	3	4	3	70	35	30	15	100			
MBA/3402/P	Production Planning And Control	3	4	3	70	35	30	15	100			
MBA/3403/P	Ergonomics	3	4	3	70	35	30	15	100			
MBA/3404/P	World Class Manufacturing	3	4	3	70	35	30	15	100			
MBA/3405/P	Principles and Practices of Safety Management	3	4	3	70	35	30	15	100			
MBA/3406/P	Costing for Production	3	4	3	70	35	30	15	100			
MBA/307	Dissertation	3	4	—	—	—	—	—	Internal Assessment			
Total		24	32	—	—	—	—	—	700	350		

Appendix-D Semester-IV

Subject Code	Name of Subject	Hrs/ Week	Credits	Examination Scheme							Total Max Mark	Min. Agg. Mark
				Duration of Exam Hours	External		Internal		Total			
					Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks				
MBA/401	Strategic Management	3	4	3	70	35	30	15	100			
MBA/4101/CGF	Financial Decision Analysis	3	4	3	70	35	30	15	100			
MBA/4102/CGF	Security Analysis And Portfolio Management	3	4	3	70	35	30	15	100			
MBA/4103/CGF	Financial Derivatives	3	4	3	70	35	30	15	100			
MBA/4104/CGF	Management Of Financial Services	3	4	3	70	35	30	15	100			
MBA/4105/CGF	Foreign Exchange Market	3	4	3	70	35	30	15	100			
MBA/4106/CGF	Insurance Management	3	4	3	70	35	30	15	100			
MBA/4201/SM	Sales & Promotion Management	3	4	3	70	35	30	15	100			
MBA/4202/SM	Marketing Of Services	3	4	3	70	35	30	15	100			
MBA/4203/SM	Marketing Of Social Services	3	4	3	70	35	30	15	100			
MBA/4204/SM	Retail Marketing	3	4	3	70	35	30	15	100			
MBA/4205/SM	Rural Marketing	3	4	3	70	35	30	15	100			
MBA/4206/SM	International Marketing	3	4	3	70	35	30	15	100			
MBA/4401/OB	Human Behavior At Work Place	3	4	3	70	35	30	15	100	350		
MBA/4402/OB	Organization Development	3	4	3	70	35	30	15	100			
MBA/4403/OB	Management Of Group Process	3	4	3	70	35	30	15	100			
MBA/4404/OB	Corporate Leadership Management	3	4	3	70	35	30	15	100			
MBA/4405/OB	Knowledge Management	3	4	3	70	35	30	15	100			
MBA/4406/OB	International HRM	3	4	3	70	35	30	15	100			
MBA/4401/OM	Service Operations Management	3	4	3	70	35	30	15	100			
MBA/4402/OM	Applied Operations Research	3	4	3	70	35	30	15	100			
MBA/4403/OM	Transportation Management	3	4	3	70	35	30	15	100			
MBA/4404/OM	Total Quality Management	3	4	3	70	35	30	15	100			
MBA/4405/OM	Industrial Health And Disaster Management	3	4	3	70	35	30	15	100			
MBA/4406/OM	Project Management	3	4	3	70	35	30	15	100			
MBA/407	Dissertation	3	4	—	—	—	—	—	Internal Assessment			
Total		24	32	—	—	—	—	—	700	350		