

Karmveer Vitthal Ramaji Shinde Shikshan Sanstha's

Tal. Gadhinglaj, Dist. Kolhapur - 416 502.

Affiliated to Shivaji University, Kolhapur











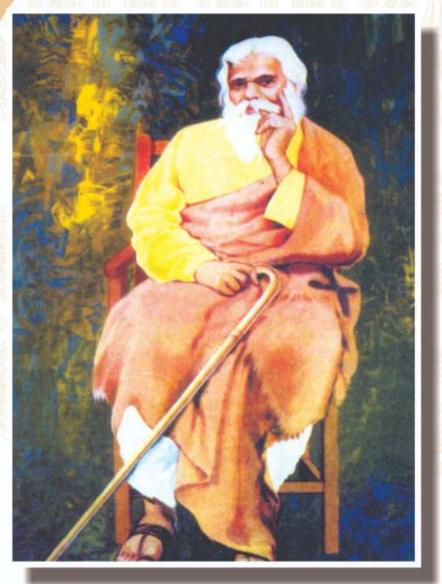
## **CREATING A CAREER OF EXCELLENCE**

B.B.A. | B.C.A. | B.Sc.

Entire) / B.C.S. E-mail: shivrajcollege64@gmail.com

Website: www.shivraj.edu.in





## **Karmveer Vitthal Ramaji Shinde**

Birth: 23rd April 1863 Death: 2nd January 1944

# President's Desk

# President's Desk

Global business environment is under tremendous pressure and rapid changes are taking place in social, cultural, legal, economic, political and technological areas across the world. There are free movements of resources from one to other country and we are moving towards globalization. In present situation, India is emerging as one of the most attractive destination for business. Due to advent of MNCs in India and abroad, a lot of opportunities in business have been created and challenges have increased. In India, Indian Universities and Institutions have accepted the challenges strongly.

SHIVRAJ, an institute of new age, believes in the best. It is providing great opportunities and total ambient to our loved students to achieve their dreams in both corporate and social realms.

We at the Institute of Business Administration and Computer Application heartily welcome you to join the family where change and growth is the order of the day.

Welcome!

Prof. K. V. Kurade
President













## Shivraj

Dr. Anil V. Kurade C.E.O. - Secretary, KVRSSS



Dr. Sarvapalli Radhakrishnan Akhil Bharatiya Teachers Welfare Association, Bengaluru & University of Central America Honorary

Doctor of Literature (D.Litt.)









# CEO's Desk

### CEO's Desk

#### Dear Students

We are happy to welcome you to join our institution for computer and management education courses. The recommendation given by the IT and management task force, if implemented will lead India to become a super power.

We at "Shivraj College Gadhinglaj, have decided to have a strict quality check on the trained manpower coming out of our institute. Who in turn will a vital role in making India a super software and management giant.

All the Information required for your enrolment is given in this prospectus, you are advice to preserve this prospectus safely till you complete the course. As it contains information regarding the course, which you have joined.

We are confident at the applicant, who joins, will a position to make a quality career for his/ her, self.

"Happy learning and all the best for your future"

Dr. Anil V. Kurade C.E.O.- Secretary, KVRSSS





# Days at Shivraj

















## Principal's Desk

## Principal's Desk

It gives me an immense pleasure to invite you to become a part of 'Shivraj'. Since 1964, our college has been playing a pioneering role in imparting quality education at grass-root level and building all-round personality of students. Total strength of the students is more than 5000. Liberalization, Privatization and Globalization (LPG) coupled with Information, Communication and Technology (ICT) have created high demand for skilled manpower. To be successful in the 21st Century students must take advantage of the new era of Information Technology (IT). Along with traditional courses we have started Professional courses like BBA, BCA, BCS, B.Sc. (Computer Science), B.Sc. (Microbiology), B.Sc. (Animation), B.Sc. (Food Science), B.Com. (IT) since the year 2000 and P.G. courses M.A., M.Com. and M.Sc. to prepare our students to meet the challenges of changing environment. Our computer department provides an enriched educational environment with well-equipped computer labs and smart classrooms. It is a matter of pride that our students have been placed in MNCs and at different organizations across the world. For the overall development of students the college gives equal importance to Sports, extra-curricular activities and value-based education.

I invite you to become a part of our leading institution to build a career in IT, Management education and entrepreneurship with the help of our management and staff.

Prof. Dr. S. M. Kadam Principal





# Days at Shivraj















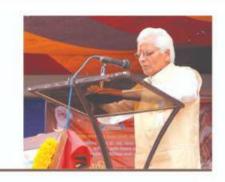
# Days at Shivraj





#### High standards

- High standards of Education & study.
- Highly experienced faculty.
- ▲ Multiple Skills acquisition





#### Support through numerous services

- ▲ Career & placement services.
- Entrepreneurial Development Programmes.



# acilities

#### Infrastructure

- ▲ Library & Information Center
- Fully equipped laboratory and research centers.
- ▲ Sports center.
- Gymnasium.
- College canteen





#### Experience life to the fullest

- ▲ Value based Programmes.
- Outdoor learning
- Pollution free atmosphere

enrichment

#### Our motto is "SEVA PERMO DHARMA"

#### सेवा परमो धर्म :

#### Means 'SERVICE ITSELF IS THE SUPREME RELIGION'

#### VISION

Giving higher education to the students and preparing them to build strong India based on reasoning, conscience, compassion and philanthropy.

#### MISSION

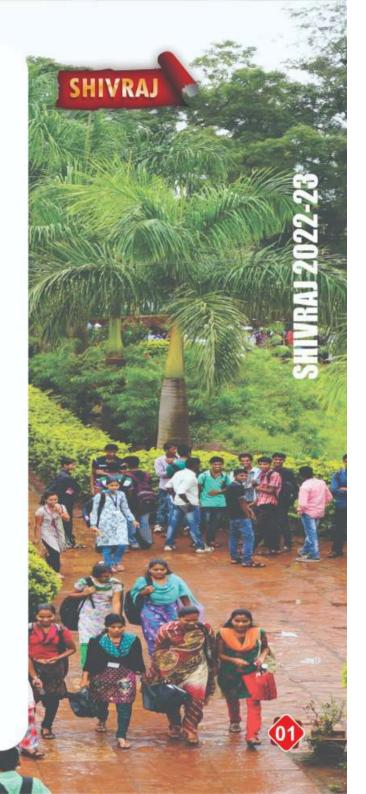
Our mission is to provide quality education to the students of Gadhinglaj, Ajara, Chandgad Tahasils and Maharashtra, Karnataka, Goa-Kokan border areas to change their minds with newly advanced Socio-Economic knowledge and technology.

#### GOALS

- To promote professional education to the rural students in the field of Humanities, Commerce, Science and Technology.
- To motivate and to encourage research activity among the teachers and the students for upliftment of the society.
- 3. To maintain discipline, decorum and nationality in the students.
- 4. To create awareness regarding environmental conservation.

#### OBJECTIVES

- To create awareness about standards of education and to develop self-respect in the personality of students.
- In the wake of growing needs of e-governance to expose the students to the new technologies and trends so as to prepare them to face the challenges at global level.
- To undertake faculty development programmes to enhance the academic quality of the institute.
- To start professional courses based on computer technology to prepare our students for the growing demands of job market.



Shivraj College established under the leadership of Shri. V. T. Patil, the founder President of Tararani Vidyapeth, Kolhapur, in the hilly remote and backward area of Kolhapur district. This was an unique experiment. His efforts were supported by Dr. S. S. Ghali and other eminent social workers from this region. In 1974, Shivraj College was hand over to Karmveer Vitthal Ramaji Shinde Shikshan Sanstha, Gadhinglaj. Under the dynamic leadership of Hon. Shri. Balasaheb Mane, the college attained perfection. The faculty of Science was started in the year 1982, and is the unique science college for the students from Ajara, Chandgad and Gadhinglaj.

The college celebrated its Silver Jubilee as an institute with a difference. Our library comprising more than 67000 books. Basically our students belong to least academic background and do not have an ideal environment conducive to academic growth. Against this background, the college has produced toppers in the merit list of Shivaji University, Kolhapur.

Under the leadership of Prof. K. V. Kurade, the President of the institution has started B.Sc. (Computer Science), B.C.S., B.B.A., B.C.A. & B.Sc. Microbiology in this region. The College also offers P. G. courses like M.Sc. (Computer Science, Organic Chemistry) M. A. (Marathi, Hindi, Economics, English) M.Com. (Accountancy) and M.B.A. (Y.C.M.O.U.)

The thrust of our institution is to sharpen our students to aspire for M.P.S.C. and U.P.S.C. We have produced several P.S.I., Chief Officers, Managing Directors, Software Engineers & Management Professionals.

#### Sincere efforts are being made to

- a. Impart quality education.
- b. Promote career awareness.
- Imbibe the principles of secularism, radical humanism, and scientific awareness with quality assurance.

The college has the wide campus of 14 acres. It is the pollution free zone in Gadhinglaj. Our Infrastructure consis of lecture halls, well equipped laboratories, unique library, separate gyms for boys and Girls, 400 meters track, a football and cricket ground. We have 19 Ph.D. holders, 14 M.Phil and 21 faculties have availed of F.D.P. of UGC.

#### **Future plans**

- 1. To develop a botanical garden with medicinal plants.
- To construct auditorium, separate cabins for humanities post graduate section and departmental libraries.
- 3. To construct boys hostel and Principal quarter.
- 4. To start new courses in Biotechnology and Information technology.
- 5. To start P. G. courses like M.B.A., M.C.A. etc.

#### Campus

Our campus spread over an area of 14 acres land, the main building built in elegant (graceful) structure. The Landscape garden covering an area of 3 acres add luster (shining surface) and greenery to the campus.



## COLLEGE HISTORY



#### LIBRARY

The library with rich, varied are rare collection of more than 67000 books on its shelves, is a veritable 'Treasure House' for the scholars, teachers and students, containing the boundless ocean of knowledge in its bossom the library is nourishing the aspirations of the levels of knowledge. Constant updating of the books is done in tune with the changing needs, in the direction, the library is fully automated. The reading room attached to the library provides news papers, periodicals and magazines for general reading purpose apart from large number of professional journals.

#### **COMPUTER LABORATORY**

"Digital Vision" the computer laboratory is a unique feature of the college. Our institute having branded computer like IBM, Compaq along with latest 150 Assembled computers (Dual core, CorezDno, Pentium IV) are placed in different five well constructed labs.

Every lab is well equipped with latest Printers, Scanners and Legal Licence Software. All computers are in LAN with unlimited Broadband Internet connection which provides facilities to all students. We have 30 kv Generator (Mahindra) to overcome load shading problem. The practicals are conducted for BBA, BCA, BCS, BSc (Computer Science), M.Sc. (Computer Science) classes.

#### STUDENT SUPPORT SERVICES

NCC and NSS:- The college had the NCC and NSS units for the students. The training is given on every Sunday to the cadets / volunteers by the experienced and dedicated NCC / NSS officers. Our students also represents the college in the Republic Day Parade at New Delhi on 26 January.

#### **GYMKHANAAND SPORTS**

The gymkhana department of the college provided the facilities in the field of sports and games. The college has necessary infrastructure facilities for sports like Hockey, Kho-Kho, Cricket and Football.

The Gymkhana provided the multi trainer, weight lifting sets and facilities for other indoor games. The department is supervised by the highly qualified & experienced Physical Education Director.

#### ATTENDANCE AND DISCIPLINE

- No candidate shall be considered to have persued the regular course of study unless he / she is certified by the principal to have attended at least 80% of the Lectures and 80% of the practical work held.
- Students will be exposed to software professional and experts in the fields through regular practical and guest address. Attendance for the same will be compulsory.
- A very high standard of discipline, regualarity and punctuality is expected from the candidates.
   Failure on this account will be viewed seriously in judging their performance.
- 4) Identity Card is compulsary in college campus
- 5) Use of mobile is prohibited in the college premises.







The Bachelor of Business Administration (B.B.A.) program is offered by Shivraj College Gadhinglaj affiliated to Shivaji University, Kolhapur with a view to impart indepth knowledge and broad understanding of different areas in management.

The B.B.A. program focuses on various areas of mangagement and prepares students for a career in management by facilitating them to progress to M.B.A. qualification in due course.

#### **OBJECTIVES**

- To facilitate students in understanding, developing, integrating and applying both core specialized concepts and practices.
- To provide students with stimulating and learning friendly atomsphere to utilize higher level of their intellectual capacity, required to specialized in respective areas of study.
- 3) To provide conceptual and in-depth knowledge of different subjects of business education.
- To build up self confidence and competency in students to take up self employable business ventures.
- 5) To give an adequate exposure to operational environment in the field of Management..
- To impart training to use modern techniques of management for the benefit of all parties concerned.

#### COURSE INFORMATION

- This programme is designed and delivered on the praradigm of cross-functional integration and continuous learning.
- The programme offers subjects like Finance, Marketing, Information Technology, Production & Service Management, Human Resource Management, Enterpreneuship development etc.
- 3) These are the mandatory papers introduced by the University.

#### ELIGIBILITY

The candidate must have passed HSC (10+2) in any stream or any Diploma (of minimum 2 years duration if 10th / SSC awarded by University / State Board in any technical or voacational stream).

**DURATION**: The duration of the course is full time three years divided into three parts of six semesters

MEDIUM: The medium of instruction is English.

**ADMISSION POLICY:** Admission to the course shall be according to the existing rules of the Shivaji University, Kolhapur.

INTAKE: 80 students per year.



# B.B.A.

BACHELOR OF BUSINESS ADMINISTRATION





# **SHIVRAJ 2022-23**

#### STRUCTURE OF BBA PROGRAMME

#### FIRST YEAR Semester - I

Course code	Sr. No.	Subject Title		Marks		
CC - A1	1	Fundamental Business Management	50	50	100	
CC - A2	2	Principal of Marketing	50	50	100	
CC - A3	3	Micro Economics	50	50	100	
GEC - G1	4	Information Technology in Busi. Mgt.	50	50	100	
AECC - C1	- 5	Business Communication paper I	50	50	100	
CCC - 1	6	Democracy, Elections and Good Governance (Non-Credit)				
		Total	250	250	500	

#### Semester - II

Course code	Sr. No.	Subject Title		Marks		
CC - A4	1	Accounting for Managers	50	50	100	
CC - A5	2	Human Resource Management	50	50	100	
CC - A6	3	Micro Economics	50	50	100	
GEC - G2	4	Management Information System	50	50	100	
AECC - C2	5	Business Communication paper II	50	50	100	
SEC - 1	6	Any one from-Business Communication & Presentation/Event Management/Personality Development/Yoga & physical Management/Resume, Report & proposal Writing				
		Total	250	250	500	

The syllabus for Compulsory Civic Course (CCC) and Skill Enhancement Course are provided on university website, which are common for all graduate programs.

#### SECOND YEAR Semester - III

Course code	Sr. No.	Subject Title		Mark	8
CC - B1	1	Fundamental of Entrepreneurship	50	50	100
CC - B2	2	Cost Accountancy	50	50	100
CC - B3	3	Service Marketing	50	50	100
GEC - G3	4	Forms of Business organisation	50	50	100
AECC - C3	5	Statistical Techniques	50	50	100
AECC-EVS	6	Environmental Science			
		Total	250	250	500

#### Semester - IV

Course code.	Sr. No.	Subject Title		Marks		
CC - B4	1	Entrepreneurship & Project Management	50	50	100	
CC - B5	2	Management Accounting	50	50	100	
CC - B6	3	Rural and Retail Marketing	50	50	100	
GEC - G4	4	Research Methodology	50	50	100	
AECC - C4	5	Statistics for Decision Making	50	50	100	
		Total	250	250	500	











#### THIRD YEAR Semester - V

Course code Sr. No.		Subject Title		Maries	
CC-C1	1	Fundamental of Business Law	50	50	100
CC-C2	2	Human skills	50	50	100
CC-C3	3	Management Historians	50	50	100
DSE-A1	4	Digital Marketing	50	50	100
DSE-A2	5	Field visit/Report (mini project)	50	50	100
DSE-B1	4	Financial Management			100
DSE-B2	5	Field visit/Report (mini project)	50		100
DSE-C1	4	Human Resource Planning	50	50	100
DSC-C2	5	Field visit/Report (mini project)	Value A	73347	100
CCC-2		Constitution of India and Local Self Government (non Credit)	50	50	100
		Total	500	500	100

#### Semester - VI

Course code	Sr. No.	Subject Title	N		Marks	
CC-C4	1	Fundamental of Taxation	50	50	100	
CC-C5	2	Business Ethics	50	50	100	
CC-C6	3	Organizational Behaviour	50	50	100	
DSE-A3	4	International Marketing	50	50	100	
DSE-A4	5	Project-major	50	50	100	
DSE-B3	4	Business finance	50	50	100	
DSE-B4	5	project - major	50	50	100	
DSE-C3	4	Human Resource Development	50	50	100	
DSC-C4	5	Project - major	-50	50	100	
SEC-II		Any one from-Interview & Personal Presentation Skill/Entrepreneurship Development Skill/Travel & Tourism/E-Banking & Financial Services/RTI & Human Right Education (HRE), IPR & Patents	50	50 500	100	
		Total				

#### **DETAILS OF MARKS**

Each subject / paper during each semester will carry 100 marks, out of this 50 marks will be alloted to university theory paper & 50 marks to be given by each subject teacher through internal evaluation Division of internal marks

1. Attendance 10 2. Internal written exam 30 3. Oral/ Seminar / G.D. 10

50 marks

#### STANDARD PASSING

- a) The candidate who has secured 40 percent marks in each head of internal & external examination shall be declared to have passed in the paper.
- b) A candidate who fails in any particular theory papers shall be allowed to reappear for that theory papers. However, his/her internal credit marks shall carried over.
- c) A candidate who fails in one or two theory papers at the end of the each year shall be allowed to keep terms for the next year.









#### TEACHING ARRANGEMENTS

A variety of teaching & assessment methods are used throughout year including lectures, seminars, tutorials, assignments, group dynamic sessions, work shops, field visits, projects, executive meets, quiz, picks, role play etc.

## SHIVRAJ

#### METHODS OF INSTRUCTION

The programme aims at the development of skills in decision making through case studies, project works, seminars, tutorial, discussion etc.

- a) Formal lectures by the full-time & part time staff as well as by visiting professors.
- b) Seminar, Group Discussion on selected problems of business and industrial management.
- c) Case decisions based on the situations drawn from business and industry in most of which, the executives are faced with complicated problems requiring close analysis and sound decision.

#### INPLANT TRAINING

- Compulsory inplant training of 30 days for final year students only.
- 40% is the minimum passing for inplant training, project report evaluation and viva-voce.

#### **CAREERS**

Graduates of this course can pursue careers in Chartered Accountancy, ICWA, MBA, MCA, Company Secretariship, Banking, Financial Services, Management consultancy, Insurance, Stock Exchange, Tax consultancy, Auditing, Finance, Sales, Marketing, Advertising, Human Resourse Planning and Management, Civil Services and other Competitive Examinations etc., Self employment C.A., C.S., ICWA, Banking & Financial Institute, Management Consultancy, Tax Consultancy, Sales & Marketing, Advertising & Research, Human Resource Planning & Management, Production Management, Financial Management, Civil Services, Competitive Examination







#### INTRODUCTION

The main objectives of the course is to develop the abilities of the students, to prepare different softwares in accordance with the current trends in IT industry and Business Management. The course also aims at equipped the students to acquire various positions such as System Analyst, System Manager, Software Engineers, Web Design Programmers, EDP Managers, Database Administrators, Academician in different areas of computer applications, Management and Information Technology Industry.

Keeping with the above motto, the curriculum of the course includes extensive study of problem solving and system development, project design and development areas. The extensive practical areas of different programming environment are covered in various operating environments. It also included versatile subjects on Enterpreneurship and Business Management.

#### **OBJECTIVES**

This is three years bachelor degree 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 programmers, system analysts, database administrators, documentation officer etc.

#### ELIGIBILITY

The candidate must have passed HSC (10+2) in any stream or any Diploma (of minimum 2 years duration if 10th / SSC awarded by University / State Board in any technical or voacational stream).

#### DURATION

The duration of the course is full time three years divided into three parts of six semesters

#### **MEDIUM**

The medium of instruction is English.

#### INTAKE

80 students per year.

#### CAREERS

Graduates in this course can pursue successful careers in MCA, M.B.A., Banking, Software consulatancy, Marketing, Advertising, Civil services and other competitive examinations, self employment etc.



# B.C.A.

BACHELOR OF COMPUTER APPLICATION





# SHIVRAJ 2022-23

#### STRUCTURE OF BCA DEGREE

#### FIRST YEAR : Semester-I

No.	Subject Title	Internal Evaluation	University Exam.	Marks
CC 101	Fundamentals of Computer	30	70	100
CC 102	Introduction to Programming Using C	30	70	100
AEC 103	Principles of Management	30	70	100
AEC104	Business Communication	30	70	100
AEC 105	Office Automation	30	70	100
CCL 106	Lab Course - I Based on CC 102	2	50	50
CCL 107	Lab course - II Based on AEC 105	2	50	50
CCC 108	Compulsory Civic Course (CCC)	-	-	-

#### FIRST YEAR : Semester-II

No.	Subject Title	Internal Evaluation	University Exam.	Marks
CC 201	DBMS	30	70	100
CC 202	Operating System	30	70	100
CC 203	Object Oriented Programming Using C++	30	70	100
AEC 204	Financial Accounting with Tally	30	70	100
AEC 205	Mathematical Foundations for Computer			
	Applications	30	70	100
CCL 206	Lab Course-III Based on CC201 and AEC 204		50	50
CCL 207	Lab Course-IV Based on CC 203	+	50	50

#### **SECOND YEAR: Semester-III**

No.	Subject Title	Internal Evaluation	University Exam.	Marks
CC 301	Web Technology	30	70	100
CC 302	Network and Internet	30	70	100
CC 303	Data Structure using C	30	70	100
AEC 304	Elements of Statistics	30	70	100
AEC 305	Human Resource Management and Materials Management	30	70	100
CCL 306	Lab Course-V Based on CC301		50	50
CCL 307	Lab Course-VI Based on CC 303 & AEC 304		50	50
	TOTAL	150	450	600









#### **SECOND YEAR: Semester-IV**

Subject Title		Internal Evaluation	University Exam.	Marks
CC 401	RDBMS	30	70	100
CC 402	Software Engineering	30	70	100
CC 403	DOT NET Technology	30	70	100
AEC 404	Enterpreneurship Development	30	70	100
CCL 405	PHP	50	5	50
CCL 406	Lab Course-VII Based on CC401	-	50	50
CCL 407	Lab Course VIII Based on CC403	-	50	50
CCL 408	Mini Project		50	50
	TOTAL	170	430	600

#### **THIRD YEAR: Semester-V**

No.	Subject Title	Internal Evaluation	University Exam.	Marks
CC 501	Java Programing	30	70	100
CC 502	Data Warehousing & Data Mining	30	70	100
CC 503	IIT Security	30	70	100
DSE 504	Elective -I	30	70	100
GE 505 CCL 506 CCL 507	1. Python Programing 2. C# Dot net 3. Ethical Hacking Elective -II 1.Digital Marketing 2. Management Information System 3. Knowledg Management Lab Course IX based on CC 501 Lab Course X based on DSE 504	30	70 50 50	100 50 50
	TOTAL	150	450	600

#### **THIRD YEAR: Semester-VI**

No.	Subject Title	Internal Evaluation	University Exam.	Marks
CC 601	Cloud Computie	30	70	100
DSE602	Elective - I	30	70	100
	1. Internet Of Things			
	2. Android Programing			
	3. R Programing			
GE 603	Elective - II	30	70	100
	1. IT Managament			
	2. ERP			
	3. M - Commerce			
AEC 604	Soft Skills	50	322	50
ACE605	Industrial Visit	25	-22	25
CCL 605	Lab Course XI		100	100
CCL607	Major Project	25	100	125
	TOTAL	190	410	600









#### **Details of Marks**

#### A) Details of Internal Evaluation (BCA III)

Total	20 Marks
Mid Test	5 Marks
Assignments, Seminars, Oral Exam	10 Marks
Attendance	5 Marks

B) Marks of Lab course and Mini Project will be given by the concern college on the basis of evaluation by the external & internal examiner.

#### C) Project Report & Viva Voce:

Project report will be assessed by the internal teacher at the end of 6th Sem. out of 20 marks & there will be Viva-Voce examination of 80 marks. The panel of examiners will consists of one internal & one external appointed by the University.

#### Rule-1

- A candidate who fails at BCA Sem. I examination will be allowed to keep terms for BCA Sem. II
  examination.
- A candidate who fails at BCA Sem. III examination will be allowed to keep terms for BCA Sem. IV examination.
- A candidate who fails at BCA Sem. V examination will be allowed to keep terms for BCA Sem. VI examination.

#### Rule-2

- A candidate who fails in not more than three heads of passing including aggregate of first Year BCA(Sem. I & II), Second Year BCA(Sem. III & IV) and Third Year BCA(Sem. V & VI).
- A candidate who fails in more than three heads of passing including aggreagate of BCA Sem. I & II, BCA Sem. III & IV & BCA Sem. V & VI examination will not be permitted to keep in the higher class namely Second Year BCA (Sem. III & IV), Third Year BCA (Sem. V & VI).

#### Rule-3

No candidate will be admitted to Second Year BCA (Sem. III) of the course unless he / she
i) Passes BCA Sem. I & BCA Sem. II

#### OR

- ii) Fail in not more than three heads of passing at the First Year BCA Sem. I & II examination.
- 2. No candidate will be admitted to Third Year BCA (Sem. V) of the course unless he/she
  - i) Passes his BCA Sem. I, Sem. II, Sem. III & Sem. IV examination.

#### OF

ii) Passes his BCA Sem. I and Sem. II examination and fails in not more than three head of passing at the Second Year BCA Sem. III & IV examination.











### **B.Sc. (Computer Science - Entire)/ B.C.S.**

#### **OBJECTIVES**

This is three years Bachelor degree course in Computer Science aimed at developing Computer Professionals and Software Engineers. The main objective of this course is every student should be computer literate and choose career in IT industries. B.Sc. (Computer Science - Entire)/ B.C.S.

#### ELIGIBILITY

- A) i) The Students passing the Higher Secondary Examination conducted by the Maharashtra State Board of Higher Secondary Education in science stream, shall be eligible for admission to the
  - ii) An examination of any other statutory University or an examining Body recognized as equivalent thereto.
- B) No candidate shall be admitted to the B.Sc. (Computer Science Entire)/ B.C.S. Part-I Semester examination unless he has satsfactorily kept <u>respective</u> terms for the course at a college affiliated to this University.

#### DURATION

The course shall be full time three years course.

#### MEDIUM

The medium of instruction and examination will be in English only.

#### INTAKE

A batch shall consisting of 80 students only.

#### Structure of B.Sc. (Computer Science - Entire)/ B.C.S. Programme

Syllabus of B.Sc. (Computer Science - Entire)/ B.C.S. I first Year

#### Mathematics: Semester - I

Code	Paper	Name of Paper	Marks
GEC-105	Paper I	Discrete Mathematics	50
GEC-106	Paper II	Algebra	50

#### Mathematics: Semester - II

Code	Paper	Name of Paper	Marks
GEC-205	Paper III	Graph Theory	50
GEC-206	Paper IV	Calculus	50

#### **Practical (Annual)**

Practical I & II Mathematics Practical I & II	100
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B.S.C.
(Computer Science - Entire) /
B.C.S.







# SHIVRAJ 2022-23

#### **ELECTRONICS: Semester-I**

Code	Paper	Name of Paper	Marks
GEC-103	Paper I	Electronics Devices and Circuits - I	50
GEC-104	Paper II	Digital Electronics - I	50

# SHIVRAJ

#### Semester - II

Code	Paper	Name of Paper	Marks
GEC-203	Paper III	Electronics Devices and Circuits - II	50
GEC-204	Paper IV	Digital Electronics - II	50

#### Practical (Annual)

1	Practical I & II	Electronics Practical I & II	100

#### STATISTICS: Semester - I

Code	Paper	Name	Marks
GEC-107	Paper - I	Descriptive Statistics - I	50
GEC-108	Paper - II	Probability Theory	50

#### Semester - II

Code	Paper	Name of Paper	Marks
GEC-207	Paper III	Descriptive Statistics II	50
GEC-208	Paper IV	Continuous Probability Distributions and Testing of Hypothesis	50

#### Practical (Annual)

1	Practical I & II	Statitics Practical	100





#### **COMPUTER SCIENCE: Semester - I**

Code	Paper	Name	Marks
CC101	Paper - I	Fundamental Computer	50
CC102	Paper - II	Programming in C Part - I	50

#### Semester - II

Code	Paper	Name	Marks
Cc201	Paper - III	Linux Operating System	50
CC202	Paper - IV	Programming in C Part - II	50

#### Practical (Annual)

1	Lab Course - I	100

# SYLLABUS OF B.Sc. (Computer Science - Entire)/ B.C.S. II Mathematics : Semester - III Second Year

Code	Paper	Name of Paper	Marks
GEC-305	Paper V	Linear Algerbra	50
GEC-306	Paper VI	Numerical Methods	50

#### Semester - IV

Code	Paper	Name of Paper	Marks
GEC-405	Paper VII	Computational Geometric	50
GEC-406	Paper VIII	Operation Research	50

#### **Practical (Annual)**

1	Practical	Mathematics Practical III & IV	100 Marks Annual
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#### **ELECTRONICS: Semester-III**

Code	Paper	Name of Paper	Marks
GEC-303	Paper V	Computer Organisation	50
GEC-304	Paper VI	Computer Instrumentation	50

#### Semester - IV

Code	Paper	Name of Paper	Marks
GEC-403	Paper VII	Microcontroller	50
GEC-404	Paper VIII	Communication Techniques	50

#### Practical (Annual)

Practical	Electronics Practical's Sem. III & IV	100 Marks Annual

#### **COMPUTER SCIENCE: Semester - III**

Code	Paper	Name	Marks
DSC-301	Paper - V	RDMS	50
DSC-302	Paper - VI	OOPS Using C++	50

#### Semester - IV

Code	Paper	Name of Paper	Marks
DSC-401	Paper - VI	Data Structure Through C++	50
DSC-402	Paper - VIII	Cyber Security Essentials	50

#### Practical (Annual)

1	Laboratory Course in Computer Science - Sem. III & IV	100		Annual
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#### SEC-I: Semester- III

Code	Paper	Name of Paper	Marks
SEC-I	Paper I	Skill Enhanced Course I - Python Programming	50
		AECC - Semester- III	

#### AECC - Semester- III

Code	Paper	Name of Paper	Marks
AECC-C	Paper I	Environmental Studies (Theory Paper)	50









#### SEC-I: Semester- IV

Code	Paper	Name of Paper	Marks
SEC-2	Paper I	Skill Enhanced Course II - Web Technology	50

#### **AECC - Semester- IV**

Code	Paper	Name of Paper	Marks
AECC-D		Environmental Studies (Project)	50

Note: Syllabus may be changed as per University rules.

SYLLABUS FOR B.Sc. (Computer Science - Entire)/ B.C.S. - III

#### THIRD YEAR: Semester - V

Code	Paper	Name of Paper	University	Internal	Total
DSE-501	Paper-IX	Core Java	40	10	50
DSE-502	Paper-X	C# Programming	40	10	50
DSE-503	Paper-XI	Software Engineering	40	10	50

#### ELECTIVE COURSE I: DSE 504 OR 505

Code	Paper	Name of Paper	University	Internal	Total
DSE-504	Paper-XII	Machine Learning I	40	10	50
DSE-505	Paper-XIII	Data Communications	40	10	50
AECC-E	English Paper-III	English for Communications III	40	10	50

#### THIRD YEAR: Semester - VI

Code	Paper	Name of Paper	University	Internal	Total
DSE-601	Paper-XIV	Advance Java	40	10	50
DSE-602	Paper-XV	ASP.net	40	10	50
DSE-603	Paper-XVI	Software Project Management	40	10	50

#### ELECTIVE COURSE I: DSE 604 OR 605

Code	Paper	Name of Paper	University	Internal	Total
DSE-604	Paper-XVII	Machine Learning II	40	10	50
DSE-605	Paper-XVIII	Computer Network	40	10	50
AECC-E	English Paper-III	English for Communications IV	40	10	50

#### PRACTICAL EXAMINATION - ANNUAL

Code	Paper	Total
LAB-9	Base on DSE 501,601	100
LAB-10	Base on DSE 502,602	100
LAB-11	Base on SEC III & IV	100
PW	Project Work	100









#### STANDARD OF PASSING

A candidate must obtain minimum 40% of the marks in each University examination paper, Internal evaluation, Lab courses and Major project.

Class will be awarded on the basis of the marks obtained by the candidate in all the six semester examinations. Candidate who has secured 40 percent marks in each head of internal credit and Semester examination shall be declared to have passed in the paper.

#### **CAREERS**

Graduates in this course can pursue successful career in M.C.S., M.C.A., M.B.A., Banking, Software consultancy, Software Engineering, Civil Services, Advertising and other competative examinations, Self employment etc.

## BACHELOR OF SCIENCE (COMPUTER) SYLLABUS OF B.Sc. (Comp.) III

THIRD YEAR : Semester - V

Code	Subjects / Papers	Theory	Internal	Total Marks
DSE-21E	Core Java	40	10	50
DSE-22E	C# Programming	40	10	50
DSE-23E	Linux Part -I	40	10	50
DSE-24E	Python Part - I	40	10	50
	TOTAL	160	40	200

#### THIRD YEAR: Semester - VI

Code	Subjects / Papers	Theory	Internal	Total Marks
DSE-21F	Advance Java	40	10	50
DSE-22F	ASP.NET	40	10	50
DSE-23F	Linux Part - II	40	10	50
DSE-24F	Python Part - II	40	10	50

#### PRACTICAL (ANNUAL)

Paper	Subjects / Papers	Theory	Internal	Total Marks
Paper IV	Computer Science Practical Paper Based on	50	-	50
raperry	DSE-2IE, 22E, 21F and 22 F			
Paper V	Computer Science Practical Paper Based on	50	-	50
- aper	DSE-24E, 23E and 24 F			
Paper VI	Software Project	100	-	100



# B.SC. (Computer Science)









Yashwantrao Chavan Maharashtra Open University (YCMOU) Study Centre

Maharashtra has a long rich tradition of eductional reform. Jotiba Phule, Panjabrao Deshmukh, Dr. Babasaheb Ambedkar, Bahurao Patil, Swami Ramanand Teerth and other great thinkers and reforms have contributed to educational philosophy and movement. It was therefore appropriate that the State realized the need of an open Univerity. The University was established on 1st July 1989 of the Maharatra State Legisture and Justly was named after Yashwantrao Chavan. Maharastrians great educational thinker, political leades and buildes of modern Maharashtra. The Yashwantrao Chavan Maharashtra Open Univirsity (YCMOU) has its head quaters at Nashik. The University at present offers so many programs of study to a cumulative strongths making It is the Largest Univirsity in Maharashtra.

YCMOU study centre at Shivraj College, Gadhinglaj was establihed in 2005 to later the needs of highest education through distance learning for entire Gadhinglaj Ajara and Chandgad Talukas. At present postgraduate programme is offered at the centre.

The YCMOU study center at Shivraj College also leave a nodle center for YCMOU programmes.

Karmveer Vitthal Ramaji Shinde Shishkan Sanstha's has provided infrastructure for and operates Gadhinglaj Study Centre of the YCMOU Nashik. This is extermely useful arrangement for working people, housewives and students as well as who want to improve their educational qualifications but are unable to attend regular classes.

#### The MBA programme:

The master of Business Administration (MBA) programme was launched by the University in the academic year 1994-95 in Shivraj College Gadhinglaj. It is intended for in service persons who wish to achieve senior management positions.

Aims - The Aims of the MBA programme are

- To help practicing managers become more effective decisim makes in their fields by updating their knowledge and managerial skills.
- 2. To enable the budding managers to develop this skills of critical analysis, logical thinking and creative imagination.
- To enable the managers to make independent judgements in the analysis and resolution of complex management problems.

#### **Duration** -

- 1. The minimum duration 2 years
- 2. Maximum duration 5 years
- 3. Maximum attandance of 50% is compuslsory for the councelling sessions.

Medium - The medium of instruction & examination is English only.

Eligibility - Admission to the MBA programme is open to all sitizens of India who satisfy the following condition

- Bachleor Degree with minimum 45% marks. (The percentage of marks will be relaxed by 50% in the case of reserved category condidates)
- Quality the on-line entrance exam conducted by YCMOU.

Enrance Fees - The Entrance Exam Fee Rs. 500/-

Programme Fees - The fee structure of MBA programme is as follows that will be collected annually at the time of student registration

First Year Fee - 15000/-

Second Year Fee - 17500/-





The programme Structure - The programme consits 20 courles and project work spread over & semester in two academic years.

#### Semester I

- 1) Accounting & finance for managers.
- 2) Business Evnironment.
- 3) Economic for Manager.
- 4) Management process & organisation behaving.
- 5) Research methodology & communications.

#### Semester II -

- 1. Business Ethics & Corporate Governance.
- 2. Quantitative Techniques in Management.
- 3. Production and operations Management.
- 4. Marketing Management.
- 5. Human Resource Management.

#### MBA Second Year -

Semester III - Compulsory Courses

- 1. Stratigic Management
- 2. International Business & International Trade.

Specialisation - To select any one Areas of specification (Three Courses)

- A) Finance group B) Markeing Group
- C) Human Resource Management Group
- D) Manufacturing Management Group

#### Semister IV -

- 1) Business Law
- 2) Management Information System
- 3) Project Work.

Specification - To select any one Areas of specification (three courses)

- A) Finance Group B) Marketing Group
- C) Human Resource Management Group
- D) Manufacturing Management Group







Sumitra More (B.C.S.) Wipro, Infosys, ICIC Bank PO



Ravina Aivale (B.C.S.) Infosys, Wipro

## **Placement Through Campus Interview**



#### - Our Recruiters -

































# Days at Shivraj





















#### SHIVAII UNIVERSITY, KOLHAPUR

Sr. No. Nº 103918



#### CERTIFICATE

This is to certify that University approval is given to Shivraj College of

Arts, Commerce and D. S. Kadam Science College, Gadhinglaj, Dist.Kolhapur to conduct the following courses for the academic year 2022-23.

Faculty of Humanities, Commerce & Management and Science & Technology

B.A. I Grant-in-aid Division-2 Permanent Affiliation Govt, Approval

 প্রতিধান্তর্ভারিকার (১৯৯৭) পরি। র বিশার ০৮৯/বন্ধর ।

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University Recent Approval

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इंकरी, पर्यावस्थानको आवारिया - विविधीरक, सहकार, महाराष्ट्रातील Compulsory

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#### SHIVAU UNIVERSITY, KOLHAPUR

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Granted Division-1 Intake-50 (each subject) M.A. Part I

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Non Grant Division-1 Intake-50 (each subject)

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Subject

M.A. Part I & II Non Grant Division-1 Intake-50 (each subject)

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 প্রান্তর্কার ১,৪০০ ১৪ বি. বচ ব্লান্তর্ব Govt. Approval University Recent Approval

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Accounting, Insurance, Business Economics, Business Management.

Non Grant Division-2 R.Com. I

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Compulsory Optional

- Manshi, Principles of Bosiness Management, Financial

Accounting, Insurance, Business Economics, Business Management.

B.Com. 1 Non Grant Division No.-3

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. WHENCE SKOP 22/out to the options and the interest Compulsory - English

Monthi, Marketing, Insurance, Business Economics, Principles of Business Management, Financial Accounting.

SHIVAII UNIVERSITY, KOLHAPUR

Sc. No 003920

Optional



B.Com. II Grant-in-aid Division-1 Permanent Affiliation

Govt. Approval विभिन्ना/कर्ष्ट्रविकारायं(au/एर)/मीति-३, विश्वक ४५/५८/५९५९ राजन्यर/टी-३/क-३६/५८३६ वि. ४५/५३/५९५९

University Recent Approval

इंडजी, अमीन्याची, बिह्नमेश प्लेमिन जेन्द्र पीतिशी, बेबीन जेन्द्र मायनामा,

विक्रमेश इक्षेन्त्रिया, विक्रमेश शरीरेटवर जेन्द्र सॉन्युटर जेम्बिनेसन, until consistent.

B.Com, II Non Grant Division-2 & 3

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University Recent Approval राजनसा/सी-२/КОР 22/००६३९ वि. १७ जुन,२०२२ Compulsory

English, Business Statistics, Corporate Accounting, Fundamental

of Entroprensurship, Business Economics, Money & Financial

System, Environment Studies.

Grant-in-aid Division-1 Permanent Affiliation B.Com. III

Govt Approval विविधान्यक्ष्यु/विकासा/(०४/१९/अभिन्तुः, दिनासः, ०५/०८/४९१९, सामान्याप्री अस्ति प्रतासद्वार वि. ०५/५३/१९१९

University Recent Approval Compulsory

Co-prient to Development, Madem Management Practices, Indicated Management, Economics

Advanced Accounting & Auditing, Rural Economics &

Co-operation, Industrial Management.

Non Grant Division-2 B.Com. III

- शासन आदेश के, एनओसी-२०१६/(१०२/५६)/पशि-४ वि. ०४/०४/२०१६ Govt. Approval

- HONTON DIKOP 22/00(25) R. NS 199, 2012 University Recent Approval Compulsory

Business Environment, Business Regulatory Framework, Modern

Management Practices, Co-operative Development, Accountancy Paper-I & II, Industrial Management Paper-I & II, Rural Economics & Co-operation Paper- I & IL

B.Com. 1& 11 Non Grant Course

- शामन आदेश क. एमजीमी-२०२४/१५०/२१/मंगि-४ वि. १६/४६/२०२१ Govt. Approval University Recent Approval vioremy∂-µKOP 22/40€34 ft. 4s 191,2072

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Compulsory

महिली लंजकान (Information Technology)

M.Com. Part I & II Non Grant Division-I Intake-50

Govt. Approval - एक्पोकी/२००४/(२८५/१४/मितः), दिनाक २४/०८/२०१४

University Recent Approval 研研研修合。/KOP 22/organ 情, my 現代を記る - Adventoral Accountance Course

M.Com. Part I & II Non Granted Division-1 Intake - 50 -100

Gevt. Approval - एकजीसी/२०५४/१५०२/५७/५विश ४, दिनाक २३/५६/२०५०

University Recent Approval - threset/25-2/KOP 22/oss29 fb. 98 195-2000

Course - Advanced Accountancy.

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#### SHIVAH UNIVERSITY, KOLHAPUR

Sr. Nº 003921



B.Sc. 1 Grant-in-aid Division-1 Permanent Affiliation

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Compulsory

- रासकारास्त्र, पदावीचान, कामातीकास्त्र, प्राणीतास्त्र, संस्कृतास्त्र, स्वीता, Optional

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सामाना/टी-२/КОР 22/ent3१ वि. वश पूर्व-२०३३ University Recent Approval

Compulsory - 111 Optional - स्वाय-भारत, पद्मिशियान, प्रस्थाविद्यार, प्राणीसम्ब, संक्ष्यशस्त्र, पृथेत,

संगापनास्त्र, व्याक्रवेशकोजी हो.

Non Grant Division No. 3 B.Sc. 1

एकबीबी २०५६/१७२/५६/मिति ४ दि ४ पत्ने, २०५६ Govt. Approval ENHALIZE 2/KOP 22/wei31 | € 16 = 17.2022 University Recent Approval

Optional रशाजीकारम्, प्रदार्शिकान्, वनस्थानस्थ, प्रशीकारम्, संस्थानस्थ, गाँसतः,

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B.Sc. I Non grant Subject

- एनजीवी अवस्थानका वस्त्रातिक विकास सुने, २०१६ Govt. Approval #######£1-2/KOP \$2/30134 \$2. 48 444,2022 University Recent Approval

Subject - समारीयान्त

Grant-in-aid Division-1 Permanent Affiliation B.Sc. II

Govt. Approval विविद्यान्त्रिवितास्य विवास्य व्याप्ति । विवास्य व्याप्ति ।

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Compulsory वर्षावरगळभास Optional

- रवायनपास्त्र, पाणीविवान, वनस्मतिवास्त्र, वाणीवास्त्र, संख्यावस्त्र, समित्र,

रांगगरायान्य, मायकोशश्रीजीजी,

B.Sc. II Non Grant Division No. 2 & 3 Govt. Approval

एनजीसी २०१८/(१०३/१६)/पशि-४ वि ४ वसे, २०१६ University Recent Approval शंताम्प्रण/टी-३/КОР 22/००६३५ वि. ७० जूम,३०३३

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रकाण्यकारक, प्रवाधिवञ्चान, यनस्वतीकारक, प्राणीतारक, संस्थापारक, संनित,

Optional रागणन्द्रसम्ब, गावक्रीबायोलीयी

B.Sc. III Grant-in-aid Division-I Permanent Affiliation

Govt. Approval - विविधान-१९५/विस्तार/(०४/५६)मसि-1, विस्ताः ०५/०८/१९५६ University Recent Approval - HAMMENT - 2/11/- 31/99/29 ft. 04/93/4444

Compulsory - 1997

Optional - गराजनसारक, वदाविद्याल, संगणकास्त्र, वनस्वतीकास्त्र,

#### SHIVAII UNIVERSITY, KOLKAPUR

Sr. No 063922



Non Grant Division No. 2 & 3 B.Sc. 111

्र पुनर्थासी २०१६/००/४६/मात्रेन्थ वि ५ असे, २०१६ Greet, Americani - UNIVERSED DISCOP 22/HOLDS Rt. NO 1954 2012 University Recent Approval

Compulsory

 रसायनस्तरकः, पद्मीविक्रान्, संग्राहकारणः, वनस्वितास्तः. Optional-

B.Sc. III Non Grant Subject

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B Sc. III Non Grant Subject

- प्रणामित्र संबद्धात्रक्षात्र अस्ति। । विद्यान्त्रात्रक्ष Govt. Approval

- HETTER/E 9/KOP 22/20134 Rt. 19 17-12022 University Recent Approval

Subject

B.Sc. III Non Grant Subject

Govt. Approval रमकी शक्तरप्रश्रामील वि.स पुरे, क्या. University Recent Approval - TRIPPER OF NOP 22/1159 PL 10 TEL 2017

Subject - F40800.73

B.Sc. I& II Non Grant Course.

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\* M.Com. अर्कॉटन्सी (२ तुकड्या) \* बालवाडी शिक्षिका प्रशिक्षण

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For Details Contact: Prof. K.S.Desai - 9970222767, Prof. Vikram Shinde - 9158914645, Prof. B. S. Pathan - 9822411431 PH.: (02327) 222078

