Chh. Shahu Institute of Business Education & Research Trust's

V.P. INSTITUTE OF MANAGEMENT STUDIES AND RESEARCH, SANGLI

Affiliated to the Shivaji University, Kolhapur and Accredited by NAAC



MASTER OF COMPUTER APPLICATION (MCA)

Under the Faculty of Science& Technology

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1. INTRODUCTION

Chh. Shahu Institute of Business Education and Research (SIBER) Kolhapur, the most prestigious B-School of SW. Maharashtra is unique in many respects. Firstly, the Institute was established way back in 1970s when only the Founder Chairman Dr. A.D. Shinde because of his vision and foresight could visualize the importance of management education in the years to follow. Secondly the Institute is fully committed to the cause of education in management and allied areas. Finally and most importantly, SIBER is the only B-School which has been conferred with the most coveted status of on Autonomous Institute by Shivaji University, Kolhapur, with the concurrence of the Government of Maharashtra and the University Grants Commission, New Delhi. All this speaks volumes of the achievements of the Institute and also reflects on its potential for excellence.

It was after soaring new heights and successfully running of SIBER that the Trust realised the long felt need of starting yet another Management Institute in the adjacent District of Sangli which finally culminated in the setting up of the VP. Institute of Management Studies & Research (VPIMSR) in Sangli in 1984 affiliated to the Shivaji University, Kolhapur. The establishment of VPIMSR proved a blessing in disguise for the rural youth of this area because it is the only Institute which caters to the specific needs of the students coming from the countryside and of those from the less privileged classes who cannot afford to join the ostentatious B-Schools in cities for pursuing their academic goals. VPIMSR will enable the students of this area to venture into the ever expanding dynamic world of business and come out with flying colours in life.

A distinct feature of the VP. Institute is that it is the only one which has been granted permanent affiliation by Shivaji University, Kolhapur to conduct the MBA Programme. The Institute gives an opportunity to the students to expose their latent talents and to excel in whatever they choose the study.

Vision:

- To foster ideas, courage determinations and to promote equal opportunities in higher education to the student community.
- To educate and prepare student community for professional excellence in an ever- changing complex business globe.

Mission:

 By adopting variety of modern pedagogies to facilitate the students in understanding, developing, interaction and applying core and specialized concepts and practices and to prepare students academically up-dated and professionally capable to accept and face the future challenges of market needs in the field of information technology, industrial automation and various functional areas of management.

2. BASIC INFORMATION OF THE COURSE

- 1. The name of the programme shall be **Master of Computer**Applications (MCA).
- 2. The knowledge and skills required planning; designing and to build Complex Application Software Systems which are highly valued in all industry sectors including business, health, education and the arts. The basic objective of the education in Masters Programme as Computer Applications (MCA) is to provide to the country a steady stream of the necessary knowledge, skills and foundation for acquiring a wide range of rewarding careers into the rapidly expanding world of the Information Technology.

Programme Objectives

Produce knowledgeable and skilled human resources which are
employable in IT sector.
Impart knowledge required for planning, designing and building
complex Application Software Systems as well as provide support to
automated systems or application.
Produce entrepreneurs who can develop customized solutions for
small to large Enterprises.
To develop academically competent and professionally motivated
personnel, equipped with objective, critical thinking, right moral and
ethical values that compassionately foster the scientific temper with
a sense of social responsibility.
To develop students to become globally competent.

- **3. Job Opportunities:** Many graduates begin their career as a junior programmer and, after some experience, are promoted as system analysts. Other seek entrepreneurial role in the Information Technology world as independent business owners, software authors, consultants, or suppliers of systems and equipments. Career opportunities exist in such areas as management software and hardware sales, technical writing, training others on computer, consulting, software development and technical support. Application areas include transaction processing, accounting functions, sales analysis, games, forecasting and simulation, database management, decision support and data communications.
- **4.** Specific elective courses to be offered in functional areas have to depend on student preferences and needs of the user systems in the region in which the educational institution is located.
- **5.** The MCA programme is a mixture of computer-related and general business courses. The computer related courses includes standard techniques of programming, the use of software packages, databases and system analysis and design tools. The general business courses include the functional areas of management like accounting, sales, purchase, inventory, and production. The course would emphasis the study and creation of business applications. Inclusion of projects in each semester (Except Sem-I,III,V) improves student's technical orientation, understanding of IT environment and domain knowledge. It will build right platform for students to become a successful Software professional. This would emphasize on domain knowledge of various areas, which would help the students to build software applications on it. The students are exposed to system development in the information-processing environment with special emphasis on Management Information Systems and Software Engineering for small and medium computer systems. Inclusion of Business Management Labs will help students to acquire thorough knowledge of management practices in organization. Subjects such as ERP, Information Security and Business Intelligence will work as new application domains. Major focus is also given on Mobile technologies so that student can choose Mobile Technologies as their career options. Also, exposure to microcomputer technology, micro-based systems design and micro applications software, including network and graphical user interface systems is also provided. Advanced Internet and Web technology includes variety of new technologies. Soft skills techniques are covered in first four semesters, which will lead to overall personality

- development of the student and that will help them in their placement activities and to sustain in the organization successfully.
- **6.** The new curricula would focus on learning aspect from three dimensions viz. Conceptual Learning, Skills Learning and Practical / Hands on.
- **7.** The inclusion of projects at each semester (except Sem-I,III,V) ensures the focus on applying the skill learnt at respective levels. It will enhance student's capability to work on various technologies. It will make appropriate platform for students to work in IT Industry. It will also improve documentation, Coding and Design standards in students. Inclusion of project for subject such as Mobile Computing will definitely improve student's innovativeness and creativity. Student's technical orientation, eagerness will be enhanced.
- **8.** The Institutes should organize placement programme for the MCA students, by interacting with the industries and software consultancy houses in and around the region in which the educational Institution is located.
- **9.** At the end of the syllabus various certifications possible for each Semester is given in the list. Students should try to do maximum certifications in their learning phase only to make their resume rich.
- **10.** Ordinarily, in each class, not more than 60 students will be admitted.

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- 4. Specific elective courses to be offered in functional areas have to depend on student preferences and needs of the user systems in the region in which the educational institution is located.
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- 9. At the end of the syllabus various certifications possible for each Semester is given in the list. Students should try to do maximum certifications in their learning phase only to make their resume rich.
- 10. Ordinarily, in each class, not more than 60 students will be admitted.

2. Duration of the Course

The MCA programme will be a full-time three years i.e. 6 semesters. Pattern of examination will be Semester System.

3. Medium of Instruction

The medium of Instruction will be English only.

4. Admission Procedure

(A) Eligibility

The eligibility criteria for appearing to MAH-MCA-CET conducted by DTE and admission for the MCA course will be as decided by the Competent Authority (Directorate of Technical Education Maharashtra State, Mumbai &/or AICTE, New Delhi) every year.

(B) Reservation of Seats

As per rules of by the Competent Authority

(C) Selection Basis

The selection would be done as per the guidelines given by the Directorate of Technical Education Maharashtra State time to time.

3. Course Structure:

Lectures and Practical should be conducted as per the scheme of lectures and practical indicated in the course structure.

MCA

(Choice Based Credit System)

(Under Faculty of Science)

(Introduced from June 2019 and Onwards)

To be implemented from the academic year 2019-2020

Sem-I

Sr. No.	Subject Code Subject Title Internal External Marks Marks		СР	Workload /Week T P			
1	MCA11	Fundamental of Computers	20	80	4	4	-
2	MCA12	Python Programming	20	80	4	4	-
3	MCA13	Discrete Mathematics	20	80	4	4	-
4	MCA14	Database Management System	20	80	4	4	-
5	MCA15	Principles of Management and Accounting	20	80	4	4	-
6	MCA1L1	LAB -I (Python)	-	100	4	-	4
7	MCA1L2	LAB -II (Database Management System)	-	100	4	-	4
8	MCA1S	Seminar	50	-	2	2	-
		Total	150	600	30	22	08

Sem-II							
s	Subject	not.	Internal	External		Workload /Week	
r. N o.	Code	Subject Title	Marks	Marks	CP	T	P
1	MCA21	Linux Foundation	20	80	4	4	-
2	MCA22	Data Structures with Python	20	80	4	4	-
3	MCA23	Statistical Computing	20	80	4	4	-
4	MCA24	* Web Designing Technologies	20	80	4	4	-
5	MCA25	Software Engineering	20	80	4	4	_
6	MCA2L1	LAB- III (Linux and Web lab)	-	100	4	-	4
7	MCA2L2	LAB - IV (DSP Lab)	-	100	4	-	4
8	MCA2MP	Mini Project	50	-	2	2	-
		Total	150	600	30	22	08

Sem-III							
Sr. No.	Subject Code	Subject Title	ıbject Title Internal Marks	External Marks	CP	Workload /Week T P	
1	MCA31 Computer Network	Computer Network	20	80	4	4	P
2	MCA32			4	4		
3	MCA32 MCA33	Java Programming	20	80	4	4	
		Advance Web Technology 20		80			-
4	MCA34	Cyber Security	20	80	4	4	
5	MCA35	Probability and Combinatorics	20	80	4	4	
6	MCA3L1	LAB I (Java)		100	4	-	4
7	MCA3L2	LABII(Advance Web Technology)	5 0	100	4	-	4
8	MCA3C C	Corporate Communication	50		2	2	-
		Total	150	600	30	22	08

	Sem-IV							
Sr. No	Subject Code	·-		External Marks			kload Veek P	
1	MCA41	Advanced Java	20	80	4	4	-	
2	MCA42	Open Source Languages(PHP)	20	80	4	4	-	
3	3 MCA43 Artificial Intelligence		20	80	4	4	-	
4	MCA44E	Elective-I i)Image Processing MCA44E.1 ii)Cloud computing MCA44E.2 iii)Data warehousing and Data Mining MCA44E.3 iv)Theory Of Computation & Compiler Construction MCA44E.4	20	80	4	4	-	
5	MCA45E	Elective-II i)Organizational Behavior MCA45E.1 ii)Enterprise Resource Planning MCA43E.2 iii)Management Information System MCA45E.3iv)Human Resource Management MCA45E.4	20	80	4	4		
6	MCA4L1	LAB III (Advance Java lab)		100	4	•	4	
7	7 MCA4L2 LAB IV (PHP Lab)			100	4	-	4	
8	MCA4MP	Mini Project	50		2	2	-	
		Total	150	600	30	22	08	

	Sem-V						
Sr. No				CP	Work / W	load eek	
						T	P
1	MCA51	Data Science	20	80	4	4	-
2	MCA52	Mobile Application Developement	20	80	4	4	-
3	3 MCA53E Elective-I i)Network Security MCA53E.1 ii)Big Data Analytics MCA53E.2 iii)Software Quality Assurance MCA53E.3 iv)Natural Language Processing MCA53E.4		20	80	4	4	-
i)Ecommerce MCA54E.1 ii)Business Intelligence MCA54E.2 iii)Start up Management MCA54E.3 iv) Entrepreneurship Development MCA54E.4		20	80	4	4		
5	MCA56	Operation Research & Optimization Techniques	20	80	4	4	-
6	MCA5L1	LAB III (Data Science)	100 4		4	-	4
7 MCA5L2 LAB IV(Mobile Application Development)			100	4	-	4	
8	MCA5IS	Industrial Seminar	50		2	2	-
		Total	150	600	30	22	08

Semester – VI						
Sr. No.	Subject Code	Subject Title	Internal	External	CP	
1	MCA61	Project Work	200	300	20	

4. Fees Structure

The approximate expenditure for a student who takes admission for three years duration MCA course at this Institute will be as under. The said approximate expenditure is estimated on the basis of fees being charged in the Institute and other expenditure likely to be incurred for pursuing the course.

Sr.No.	Particulars	MCA-I	MCA-II	MCA-III
1	Development fee	6151	7591	6909
2	Tuition fees	66849	75909	69091
	(A) Total	73000	83500	76000
	Other Fees			
1	Admission/Form	50	50	50
5	Computer fee	0	0	0
9	Gym.fee	0	0	0
10	I Card	25	25	25
12	Library fee	0	0	0
17	Study material	0	0	0
19	Term fee	0	0	0
	(B) Total	75	75	75
	Agrani College	50	50	50
3	Aptkalin Nidhi	10	10	10
4	Ashwedmedh	25	25	25
6	E-facilities	50	50	50
7	Eligibility fee	100	0	0
8	Env.studies fee	0	0	0
11	Insurance fee	479	25	25
13	P.G.Registration	60	0	0
14	Pro-rata	30	30	30
15	S.A.F.	15	15	15
16	S.W.F.	15	15	15
18	T.C.Fee	0	0	0
20	Youth festival	40	40	40
21	Self Finance Unit	10	10	10
22	Exm.fee	2910	2910	2425
	(C) Other Fees	3794	3180	2695
	Total Fees (A+B+C)	76869	86755	78770
	Library Deposits	2000	500	0

University Eligibility fees and Examination fees will be charged separately as per the directives of Shivaji University, Kolhapur.

5. Teaching Staff

DEPARTMENT OF COMPUTER APPLICATION

Sr. No.	Name	Qualification	Designation
1	Dr. S.T. Bhosale	MCA, M.Phil, MBA, M.Sc. (Sub.Com.), Ph.D.	Assistant Professor
2	Dr. Mrs. V.S. Jadhav	B.Sc., MCA, M.Phil, Ph.D.	Assistant Professor
3	Prof. A.B. Patil	B.Sc., MCA, M.Phil. M.Com (Sub.Com)	Assistant Professor
4	Dr. A.A. Sattikar	B.Sc., MCA, M.Phil., M.Com (Sub.Com.), Ph.D.	Assistant Professor
5	Prof. Mrs. V.P. Desai	BCA, MCA, M.Phil	Assistant Professor
6	Prof. A.A. Govande	BCS, M.Sc, MCA, M.Phil	Assistant Professor
7	Prof. Mrs. A.R. Rasal	BCS, MCA, SET	Assistant Professor
8	Prof. I.A. Attar	BCS, MCA	Assistant Professor
9	Prof. Mrs. J.M. Bohra	B.Sc, MCA	Assistant Professor
10	Prof. Miss. T.U. Swant	BCA, MCA, NET	Assistant Professor

6. Details of Infrastructural facilities

a) **Library**: Well staged central library for all departments with J-Gate and EBSCO e-journal

b) Computing:

Name of the Internet Provider : Airtel

Available Bandwidth : 155 Mbps Landline and Leased

Line & Wi-Fi

• Class Rooms : Class rooms are equipped with

ICT facility

Laboratories : 3 Computer Labs with recent

configurations

c) Support structures

1. ICT enabled classrooms.

- 2. Seminar hall equipped with Video conferencing facility
- 3. State of art computing facilities.
- 4. Language lab with multimedia facility.
- 5. Library with offline and online resources.
- 6. Auditorium hall for co-curricular activities
- 7. Moodle and Fedena software system.

d) Teaching-Learning methods

- Seminar method
- Case study method
- Group discussion method
- Lectures were organized via video conferencing in seminar hall
- Mini projects (Individual and group based projects) in individual subjects
- Research paper publication in conference/seminars/journals
- Guest lectures
- Remedial classes for slow learners
- Cash prize test for improving employability skills
- BEC (Business English Communication) classes for all students (The fees are borne by the Institute.)
- Foundation classes for freshers.
- Inter and Intro-collegiate competitions.
- Book bank scheme for meritorious and economically poor students.

7. Other Facilities

a) Industrial interaction/Visit

With prior permission of Principal, the placement cell along with the students visits the industries, to observe and understand their work culture and to know departmental communication procedure.

b) Career Counseling

Placement officer provides guidance to the students on various issues pertaining to competitive examinations such as structure of examination, guidance for preparation of examination, personal interviews at regular intervals through formal as well as informal interaction with them. The students are trained for interviews by conduction of activities like Field work, Mini Project, Role play, Debates, Mock interview, Group discussion, General and technical aptitude tests etc.

रॅगींग -

सन १९९९ महाराष्ट्र शासन राजपत्र अधिनियम क्रमांक ३३ नुसार महाराष्ट्र राज्यात शैक्षणिक संस्थामध्ये रॅगींग करण्याची मनाई करण्यात आली आहे. शासनाचे पत्रानुसार रॅगींग (शारीरिक व मानसिक छळ) केलेले कोणी आढळल्यास त्यास दोन वर्षे कारावासाची शिक्षा व दहा हजार रुपयापर्यंत द्रव्यदंडाची शिक्षा होण्यास पात्र असेल. रॅगींग अपराध सिध्दापराधी ठरलेल्या कोणत्याही विद्यार्थ्यास संस्थेतून काढून टाकणेत येईल व काढून टाकल्याच्या दिवसापासून ५ वर्षाच्या कालावधीपर्यंत कोणत्याही इतर संस्थेत प्रवेश देता येणार नाही

c) Scholarship/Fee Concession

The Institute follows the norms set by the Government for scholarship to SC/ST/OBC/ Women/ Economically Weaker sections/ Differently abled/Minority community and other.

Besides Government scholarship, the Institute contributes 50% and 20% of tuition fees of the girl students of DBM and the students of BBA/BCA program respectively, who are deprived from any other kind of scholarship.

Late Prof. Dr. A.D. Shinde Merit Scholarship 2019-20

The Institute has declared academic merit scholarship from the academic year 2019-2020 for MBA and MCA students in the memory of **Late Prof. Dr. A. D. Shinde Saheb**, Founder President of CSIBER Trust, Kolhapur.

- These scholarships will be awarded to those students who have, Obtained minimum 60% marks in degree/Part I/Part II exam.
- 2nd year MBA and 2nd & 3rd year MCA students should apply for renewal and should have minimum 80% attendance in the class is compulsory.

Continued further education at VPIMSR up to completion of the course.

Not obtained any other scholarships/free ships etc.(except Minority scholarship)

Note:

- 1. Students fulfilling the above criteria should submit their applications, giving above details up to 30th Aug. each year.
- 2. Prescribed Application forms are available in the office.
- 3. Applications after 30th Aug. 2019 are not accepted.
- 4. Fail/ATKT students are not eligible for scholarship.

Scholarship Details

Marks Below 70%: Rs. 10,000/-

Marks Above 70%: Rs. 15,000/-

8. GENERAL INSTRUCTIONS

- Candidate should carefully read, before being admitted, the prospectus issued by the Institute as well as the relevant University publications. The rules contained in the course as well as those made by the Institute and changes made therein, from time to time, shall be binding on the candidate and on his / her guardians.
- Candidates are admitted to the course, subject to the rules of Shivaji University. Kolhapur as to the eligibility, grant of terms etc.
- The fees prescribed by the University for the course must be paid at the time of admission. Failure to do so shall result in cancellation of admission.
- If a candidate is entitled to any Government Scholarship or Freeship, the amount of such scholarship or freeship will be paid to him / her only when it is actually received by the Institute from the appropriate authorities.
- For the grant of two terms and for eligibility to fill in the University Examination Form of the course, candidate must attend at least 80% of the lectures for the course as laid down by the University.
- No candidate shall be considered to have pursued course of study unless he / she is certified by the Principal to have attended at least 80% of the lectures and satisfactorily completed all the tutorials, seminars and internal work as laid down by the University.
- Every candidate must attend the classes regularly and complete his / her class work, tutorials. seminars and assignments within the stipulated period. Attendance for periodical test and surprise tests conducted from time to time is compulsory.
- All the submissions with respect to the internal marks have to be done in the allotted time only. Late submissions are not allowed.
- The students will be exposed to the business world through constant liaison and interaction with the industry and faculty of leading Management Institutes.
- A very high standard of discipline, regularity and punctuality is expected from the candidates, failure of which will be viewed seriously in judging the performance of a candidate.
- No candidate shall be allowed to appear for the University Examination unless he / she satisfies all the rules and regulations laid down by the University.
- Fees are not refundable on any account except the amounts paid as Library Deposit and Caution Money. Whenever admission of a student is to be cancelled by him / her, the student should intimate to the Principal in writing, with the written consent of his / her guardian.
- The students are required to be in the prescribed dress code on the campus on the stipulated days and when the occasions demand.
- The code of conduct as laid down by the Institute is required to be strictly followed by the students.

SHIVAJI UNIVERSITY, KOLHAPUR





CERTIFICATE

This is to certify that University approval is given to Vasantraodada Patil Institute of Management Studies and Research, Wanleswadi, Tal.Miraj, *Dist.Sangli* to conduct the following courses for the academic year 2019-20.

ENGINEERING FACULTY

M.B.A. Part I & II **Permanent Affiliation** Intake 60 एनजीसी/3५९४/एमबीए/७४९७/मशि-3 दि. २१/०७/१९९४ Govt. Recent Approval PG/Affi./VYJ/5131, Date. 02/08/2005 **University Approval** A.I.C.T.E. Recent Westem/1-4259311068/2019/EOA Date 10 April, 2019 **Approval**

M.Com. I & II Non Grant Division - 1 Permanent Affiliation

- शिक्षणसेयो/म.शा./क्र.यकेएफ/१०८३/६५२(मम्)/(७४९८)विशि-३, Govt. Recent Approval दि.०२/०५/१९८४

PG/Affi./VYJ/5131, Date. 02/08/2005 **University Approval** M.Com. Intake 50 Course

D. B. M. Non Grant Division - 1 Permanent Affiliation Intake 60

- शिक्षणसेयो/म.शा./क्र.यकेएफ/१०८३/६५२(ममु)/(७४९८)विशि-३, Govt. Recent Approval दि.०२/०५/१९८४

PG/Affi./VYJ/5131, Date. 02/08/2005 **University Approval** Course - D. B. M. All Syllabus

D. I. T. Permanent Affiliation Intake 60 Non Grant Division - 1

- यकेएफ/१०८३/६५२(मम्)/(७४९८)विशि-३, दि.०२/०५/१९८४ Govt. Recent Approval PG/Affi./VYJ/5131, Date. 02/08/2005 **University Approval** Course D. I. T. All Syllabus

B.B.A **Non Grant Division** Intake 80

Govt. Recent Approval क्र.शिविसं-२००६/(२३१/०६)/मशि-३, दि. २१/०६/२००५ शिवाजी.वि./संलग्नता/टी-२/विद्यापरिषद बैठक, दिनांक.२४/०५/२०१९. University Recent

Approval Course - All Syllabus

B.C.A. **Non Grant Division** Intake 80

क्र.शिविसं-२००६/(२३१/०६)/मशि-३, दि. २१/०६/२००१ Govt. Recent Approval शिवाजी.वि./संलग्नता/टी-२/विद्यापरिषद बैठक, दिनां **University Approval** Course All Syllabus

mvaji University,

SHIVAJI UNIVERSITY, KOLHAPUR

Sr.No. 000761



P.G.D.C.A. Non Grant Division

Intake 60

Govt. Recent Approval University Approval

Course

- क्र.शिविसं-२००६/(२३१/०६)/मशि-३, दि. २१/०६/२००५

- शिवाजी.वि./संलग्नता/टी-२/विद्यापरिषद बैठक, दिनांक.२४/०५/२०१९.

- P.G.D.C.A. All Syllabus

M.C.A. Part I, II & III

Intake 60

Govt. Recent Approval D.T.E. Approval University Approval A.I.C.T.E. Approval - संकीर्ण-२०१०/८१८८/२०१०/तांशि-४ दि. ३०/०७/२०१० २/एनजीसी/मान्यता/२०१०/२३७४/दि. ०८/११/२०१०

- शिवाजी.वि./संलग्नता/टी-२/विद्यापरिषद बैठक, दिनांक.२४/०५/२०१९.

- Westem/1-3323617026/2017/EOA Date 30 March, 2017

B.B.A. II, B.C.A. II

University Circular Compulsory

- SU/BOS/Env.sy1/Dhawan/11594/11125, Dtd.16 March, 2005 पर्यावरणअभ्यास

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