



ज्ञानगंगा घरोघरी

**Yashwantrao Chavan Maharashtra  
Open University  
Nashik**

**School of Computer Science**

**Prospectus  
2019 – 2020**

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## **Important Dates**

**Table 1: Admission Schedule for all programmes**

<b>Event</b>	<b>Dates</b>
Admission Period (Without Late Fee)	1 June-2019-15 July 2019
Admission with Late Fees of Rs. 100/-	16 July-2019-31 July 2019

## **1. About the School of Computer Science**

The School of Computer Science is one of the eight schools of studies the University. Through its quality policy, the School aims to enhance and sustain excellence of its educational programmes. It has a vision to create computer literacy by taking computer education to the masses.

The School envisages to:

- Develop degree, postgraduate and research level computer programmes for creating professional manpower required by the IT industries.
- Develop need-based and job-oriented short-term computer programmes to meet the huge demand of IT skilled manpower in business and industry.
- Ensure relevance of programmes by updating the curriculum dynamically.
- Provide e-Learning support to its learners.
- Establish tie-ups with industries and other educational institutions to share experience and knowledge.
- Carry out research that will help in developing new methods, tools and techniques useful for computer education and applications.
- The School imparts computer education through its Authorized Study Centres.

## **2. Need for Programmes**

Human society has passed through 'green revolution', 'industrial revolution' and 'information revolution'. Now it is entering into 'knowledge revolution'. Education in general and 'computer education' in particular is gaining utmost importance in today's knowledge society. Computer skills have become the life skills for everybody.

For high productivity and better quality, many business houses, Government departments and industries are making extensive use of computers. Extensive manpower is required to handle and operate these computers. Thus, there is pressing demand of computer professionals to work at various levels in Information Technology (IT) industries.

Highly skilled software professionals are required for nation building. They design and develop software products and systems. They are helpful in providing IT and IT-enabled services. They carry out overseas projects and earn huge amounts of foreign exchange for the country. They become entrepreneurs and establish IT industries, which provide employment for a large number of people.

BCA combine the intellectual challenge of a new discipline with the excitement of an innovative and rapidly expanding information technology. These programmes are intended for those learners who plan careers in computer science, in the fields that make use of computing and for those who plan postgraduate study in computer science.

BSc Industrial Science: Education is the driving force of economic and social growth of the nation. It is the need of the time to generate skilled manpower suitable for industrial and business sectors. In order to provide technical education to the youth to enable them to acquire competency required by the industry, the university has developed and launched degree and diploma programmes in Industrial Science. B.Sc. (Industrial Science) is not on offer this year since the approval is awaited from UGC. The learners who have already register can take further admissions.

### 3. Study Centre

The Study Centre is authorized to conduct computer programmes offered by the University. Depending on the infrastructure of the Study Centre, specific programmes are assigned to that Study Centre.

The Coordinator of the Study Centre shall look after all the activities of the Study Centre including the practical of the learners. The Study Centre perform the following important functions:

- Conduct the Courses as prescribed by the University.
- Make available the hard copy of the Prospectus to the prospective learner for reading purpose at reception.
- Forward necessary information to the University as and when required.
- Organize counseling sessions, practical sessions as per the planned time table prepared by the Study Centre and submitted to YCMOU at the beginning of the academic year.
- Facilitate delivery of instructional material on demand.
- Perform duties as an examination centre.
- Provide any other additional facilities for the learners' benefit.

Learners should carry out the entire computer practical at the Study Centre. The Coordinator/Instructor of the Study Centre will supervise the practical activities.

### 4. Programmes offered by the School of Computer Science

#### A. Computer Programmes:

Programme Code	Name of the programme	Duration	* Valid registration period
<b>Certificate programmes</b>			
D101	Computer Fundamentals	6 months	2 years
D102	Office Tools	6 months	2 years
D104	Computerized Financial Accounting	6 months	2 years
D105	Programming Expertise in C	6 months	2 years
D106	Data Structures using C	6 months	2 years
D107	OOPs and C++	6 months	2 years
D112	Visual Programming	6 months	2 years
D113	LINUX	6 months	2 years
D114	ORACLE	6 months	2 years
<b>Degree Programme</b>			
P131	Bachelor of Computer Applications (BCA)	3 years	5 years
<b>Post Graduate Degree Programme</b>			
P144	Master of Computer Applications (MCA)	3 years	6 years

#### B. Industrial Science Programmes:

Programme Code	Name of the programme	Duration	* Valid registration period
<b>Diploma programmes</b>			
P141	Diploma in Industrial Science	2 years	4 years
<b>Degree Programmes</b>			
P133	B. Sc. (Industrial Science)	3 years	5 years

\* **Re-registration:** A learner who fails to complete the programme within the valid registration period will have to re-register for the programme.

## 5. Eligibility and Documents to be uploaded while applying

At present there is **no provision** in the University to admit international learners. The eligibility criteria are given below:

### A. Computer Programmes

#### (I) Eligibility

Sr. No.	Programme code	Name of the programme	Year	Pre Qualification
1)	D101	Computer Fundamentals	-	18 years of age complete. Knowledge of Computers
2)	D102	Office Tools		
3)	D104	Computerized Financial Accounting		
4)	D105	Programming Expertise in C		
5)	D106	Data Structures using C		
6)	D113	LINUX		
7)	D107	OOPs and C++	-	18 years of age complete. Knowledge of C Programming
8)	D111	Programming Excellence through C#		
9)	D114	ORACLE		
10)	D112	Visual Programming	-	18 years of age complete. Knowledge of OOPs & C++
11)	P131	Bachelor of Computer Applications (BCA)	FY	<ul style="list-style-type: none"> <li>• 12<sup>th</sup> standard of HSC Board of Maharashtra, or its equivalent [including MCVC]</li> <li style="text-align: center;"><b>OR</b></li> <li>• 3-year Diploma of Board of Technical Examination or equivalent</li> <li style="text-align: center;"><b>OR</b></li> <li>• 2-year ITI Programme of any trade after 10<sup>th</sup> standard</li> <li style="text-align: center;"><b>OR</b></li> <li>• 2-year course of Maharashtra State Board of Vocational Education after 10<sup>th</sup></li> <li style="text-align: center;"><b>OR</b></li> <li>• YCMOU Preparatory</li> </ul>
12)	P131	BCA	SY	FY BCA (P131) registered
13)	P131	BCA	TY	SY BCA (P131) registered
14)	P131	Direct admission to the Second Year of BCA Programme	SY	<ul style="list-style-type: none"> <li>• Successfully completed the 3-year diploma in Computers/Information Technology from Government Technical Board after 10<sup>th</sup> <b>OR</b></li> <li>• Successfully completed the 1<sup>st</sup> Year of Computer Science/Information Technology/Computer Application degree programme (without ATKIT) from the recognized University after 12<sup>th</sup> with maths</li> </ul>

**(II) Documents to be uploaded while applying**

Sr. No.	Programme code	Name of the programme	Documents (SELF ATTESTED TRUE COPIES) to be uploaded along with the Admission Form
15)	D101	Computer Fundamentals	Age Proof (Birth Certificate, driving license, Aadhar Card, PAN Card, Leaving Certificate etc)
16)	D102	Office Tools	
17)	D104	Computerized Financial Accounting	
18)	D105	Programming Expertise in C	
19)	D106	Data Structures using C	
20)	D113	LINUX	
21)	D107	OOPs and C++	
22)	D111	Programming Excellence through C#	
23)	D114	ORACLE	
24)	D112	Visual Programming	
25)	P131	Bachelor of Computer Applications (BCA)	1) Age Proof (Birth Certificate, driving license, Aadhar Card, PAN Card, Leaving Certificate) 2) Statement of Marks of Std 12 <sup>th</sup> <b>OR</b> 2) Statement of Marks of Std 10 <sup>th</sup> <b>AND</b> Statement of marks of all 3 years of Diploma <b>OR</b> 2) Statement of Marks of Std 10 <sup>th</sup> <b>AND</b> Statement of marks of all 2 years of ITI <b>OR</b> 2) Statement of Marks of Std 10 <sup>th</sup> <b>AND</b> Statement of marks of all 2 years of Maharashtra State Board of Vocational Education course <b>OR</b> 2) Statement of Marks of YCMOU Preparatory
26)	P131	BCA	Hall ticket of FY BCA.
27)	P131	BCA	Hall ticket of SY BCA.
28)	P131	<b>Direct admission to the Second Year of BCA Programme</b>	1) Age Proof (Birth Certificate, driving license, Aadhar Card, PAN Card, Leaving Certificate etc) 2) Statement of Marks of Std 12 <sup>th</sup> with Mathematics <b>AND</b> First Year Marksheet <b>OR</b> 2) Statement of Marks of Std 10 <sup>th</sup> <b>AND</b> Statement of marks of all 3 years of Diploma 3) The First Year Exemption Form (given in <b>Appendix A</b> ).

## B. Industrial Science Programmes

### (I) Eligibility

Sr. No.	Programme code	Name of the programme	Year	Pre Qualification
1	P141	Diploma in Industrial Science	FY	10 <sup>th</sup>
2	P141	Diploma in Industrial Science	SY	FY Diploma (P141) registered
3	P133	B. Sc. (Industrial Science)	FY	<ul style="list-style-type: none"> <li>• 12<sup>th</sup> standard of HSC Board of Maharashtra, or its equivalent [including MCVC]</li> <li style="text-align: center;"><b>OR</b></li> <li>• 3-year Diploma of Board of Technical Examination or equivalent</li> <li style="text-align: center;"><b>OR</b></li> <li>• 2-year ITI Programme of any trade after 10<sup>th</sup></li> <li style="text-align: center;"><b>OR</b></li> <li>• 2-year course of Maharashtra State Board of Vocational Education after 10<sup>th</sup>.</li> <li style="text-align: center;"><b>OR</b></li> <li>• YCMOU Preparatory passed</li> </ul>
4	P133	B. Sc. (Industrial Science)	SY	FY B.Sc.(I.S.) (P133) registered
5	P133	B. Sc. (Industrial Science)	TY	SY B.Sc.(I.S.) (P133) registered
6	P133	<b>Direct admission to the Second Year of B. Sc. (Industrial Science) Programme</b>	SY	<p>10+3 years or 12+2 years Diploma of MSBTE or equivalent.</p> <p><b>Note:</b> The students who have passed 12<sup>th</sup> examination after taking the admission to the diploma in industrial science are <b>NOT</b> eligible to take direct admission to second year.</p>

### (II) Documents to be uploaded while applying

Sr. No.	Programme code	Name of the programme	Year	Documents (SELF ATTESTED TRUE COPIES) to be uploaded along with the Admission Form
1	P141	Diploma in Industrial Science	FY	<ol style="list-style-type: none"> <li>1) Age Proof (Birth Certificate, driving license, Aadhar Card, PAN Card, Leaving Certificate)</li> <li>2) Passing Certificate of Std X and Statement of Marks</li> </ol> <p style="text-align: center;"><b>OR</b></p> <ol style="list-style-type: none"> <li>2) Statement of Marks of YCMOU Preparatory</li> </ol>
2	P141	Diploma in Industrial Science	SY	<ol style="list-style-type: none"> <li>1) Hall ticket of FY.</li> </ol>



3	P133	B. Sc. (Industrial Science)	FY	1) Age Proof (Birth Certificate, driving license, Aadhar Card, PAN Card, Leaving Certificate) 2) Statement of Marks of Std 12 <sup>th</sup> <b>OR</b> 2) Statement of Marks of Std 10 <sup>th</sup> <b>AND</b> Statement of marks of all 3 years of Diploma <b>OR</b> 2) Statement of Marks of Std 10 <sup>th</sup> <b>AND</b> Statement of marks of all 2 years of ITI <b>OR</b> 2) Statement of Marks of Std 10 <sup>th</sup> <b>AND</b> Statement of marks of all 2 years of Maharashtra State Board of Vocational Education course <b>OR</b> 2) Statement of Marks of YCMOU Preparatory
4	P133	B. Sc. (Industrial Science)	SY	Hall ticket of FY B.Sc.(I.S.) (P133).
5	P133	B. Sc. (Industrial Science)	TY	Hall ticket of SY B.Sc.(I.S.) (P133).
6	P133	<b>Direct admission to the Second Year of B. Sc. (Industrial Science) Programme</b>	SY	1) Age Proof (Birth Certificate, driving license, Aadhar Card, PAN Card, Leaving Certificate etc) 3) Statement of Marks of Std 10 <sup>th</sup> <b>AND</b> Statement of marks of all 3 years of Diploma of MSBTE <b>OR</b> 3) Statement of Marks of Std 12 <sup>th</sup> <b>AND</b> Statement of Marks of all 3 years of Diploma of MSBTE 4) The First Year Exemption Form (as given in <b>Appendix B</b> ).

## 6. Language of Instruction

The medium of instruction of all the programmes is English Language only. All the Printed Study Material of the programmes is in English. The medium of examination will be English. However, the Coordinator, Instructor or Counselor may use English /Marathi /Any other language to help the learners understand the subject well.

## 7. Educational Network for Programme Delivery

The University has its headquarters in Nashik. Keeping in line with its vision of taking education to every doorstep, the University takes care to provide its academic programmes to the learners located in different parts of Maharashtra State. For this the University has established 8 Regional Centres and the network of authorized Study Centres in Maharashtra.

The instructional package consists of the following components:

- Study material developed by experts using instructional technology.
- Good quality instructional text adopted from the market.
- Face-to-face contact sessions organized at the Study Centres.
- Practical Component handled at the Study Centres.
- Evaluation of learners at the examination centres.

## 8. Programme Structure: Computer Programmes

### Certificate in Computer Fundamentals (2016 pattern) Code: D101

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
CMP519	Computer Fundamentals	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP719	Lab: Computer Fundamentals	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>60/150</b>

### Certificate in Office Tools (2016 pattern)

Code: D102

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
CMP527	Office Tools	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP727	Lab: Office Tools	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>60/150</b>

### Certificate in Computerized Financial Accounting (2016 pattern)

Code: D104

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
CMP531	Computerized Financial Accounting	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP731	Lab: Computerized Financial Accounting	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>60/150</b>

### Certificate in Programming Expertise in C (2016 pattern)

Code: D105

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
CMP520	Programming Expertise in C	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP720	Lab: Programming Expertise in C	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>60/150</b>

### Certificate in Data structure using C (2016 pattern)

Code: D106

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
CMP528	Data structure using C	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP728	Lab: Data structure using C	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>60/150</b>

### Certificate in OOPs and C++ (2016 pattern)

Code: D107

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
CMP503	OOPs and C++	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP703	Lab: OOPs and C++	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>60/150</b>

**Certificate in Visual Programming (2016 pattern)****Code: D112**

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
CMP535	Visual Programming	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP735	Lab: Visual Programming	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>60/150</b>

**Certificate in Linux (2016 pattern)****Code: D113**

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
CMP515	Linux Administration	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP715	Lab: Linux Administration	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>60/150</b>

**Certificate in Oracle (2016 pattern)****Code: D114**

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
CMP536	ORACLE	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP736	Lab: ORACLE	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>60/150</b>

**Diploma in Computing (2016 pattern) \*****Code: P142**

Course Code	Course Name	Theory/ Practical	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
<b>Semester 1</b>						
GEN204	Communication Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP520	Programming Expertise in C	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP528	Data structure using C	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP527	Office Tools	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP720	Lab: Programming Expertise in C	Practical	30	2	EE(20/50)	20/50
CMP728	Lab: Data structure using C	Practical	30	2	EE(20/50)	20/50
CMP727	Lab: Office Tools	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 2</b>						
ICT151	IT and E-Learning Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP534	Programming Excellence through C#	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP532	ASP.NET	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP509	Database Management System	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP734	Lab: Programming Excellence through C#	Practical	30	2	EE(20/50)	20/50
CMP732	Lab: ASP.NET	Practical	30	2	EE(20/50)	20/50
CMP709	Lab: Database Management System	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>

\* **Note** The diploma is **NOT** offered in this academic year.

**B.C.A. (Bachelor of Computer Applications) (2016 pattern)****Code: P131**

Course Code	Course Name	Theory/ Practical / Project	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
<b>Semester 1</b>						
AEC001	English Communication	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP501	Mathematics	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP502	Problem Solving using Computers	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP503	Programming using C++	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP701	Lab: Mathematics	Practical	30	2	EE(20/50)	20/50
CMP702	Lab: Problem Solving using Computers	Practical	30	2	EE(20/50)	20/50
CMP703	Lab: Programming using C++	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 2</b>						
ENV121	Environmental Studies	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP504	Statistics	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP505	Data Structure using C++	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP506	Computer Networks	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP704	Lab: Statistics	Practical	30	2	EE(20/50)	20/50
CMP705	Lab: Data Structure using C++	Practical	30	2	EE(20/50)	20/50
CMP706	Lab: Computer Networks	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 3</b>						
ICT151	IT and E-Learning Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP507	Operating System	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP508	Web Technologies	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP509	Database Management System	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP707	Lab: Operating System	Practical	30	2	EE(20/50)	20/50
CMP708	Lab: Web Technologies	Practical	30	2	EE(20/50)	20/50
CMP709	Lab: Database Management System	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 4</b>						
OPN272	Financial and Investment Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP510	Computer System Architecture	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP511	Software Engineering	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP512	JAVA	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP710	Lab: Computer System Architecture	Practical	30	2	EE(20/50)	20/50
CMP711	Lab: Software Engineering	Practical	30	2	EE(20/50)	20/50
CMP712	Lab: JAVA	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 5</b>						
CMP332	Quantitative Aptitude	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP513	E Commerce Technologies	Theory	60	4	CA(20) + EE(32/80)	40/100

CMP514	Advance JAVA	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP515	Linux Administration	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP713	Lab: E Commerce Technologies	Practical	30	2	EE(20/50)	20/50
CMP714	Lab: Advance JAVA	Practical	30	2	EE(20/50)	20/50
CMP715	Lab: Linux Administration	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 6</b>						
OPN273	Personality and Career Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP516	Android Programming	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP517	PHP Programming	Theory	60	4	CA(20) + EE(32/80)	40/100
CMP716	Lab: Android Programming	Practical	30	2	EE(20/50)	20/50
CMP717	Lab: PHP Programming	Practical	30	2	EE(20/50)	20/50
CMP801	Project-BCA	Project	90	6	EE(60/150)	60/150
					<b>Total</b>	<b>220/550</b>

## 9. Programme Structure: Industrial Science Programmes

Diploma in Industrial Science (2016 pattern)

Code: P141

Course Code	Course Name	Theory/ Practical / Project	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
<b>Semester 1</b>						
GEN204	Communication Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS101	Health Safety & Environment	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS102	Basic IT Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS103	Workshop Technology & Documentation	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS104	Lab: Health Safety & Environment	Practical	30	2	EE(20/50)	20/50
DIS105	Lab: Basic IT Skills	Practical	30	2	EE(20/50)	20/50
DIS106	Lab: Workshop Technology & Documentation	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 2</b>						
DIS201	Business Statistics	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS202	Electronic Devices	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS203	Advance IT Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS204	Introduction to Mechanical Instruments	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS205	Lab: Electronic Devices	Practical	30	2	EE(20/50)	20/50
DIS206	Lab: Advance IT Skills	Practical	30	2	EE(20/50)	20/50
DIS207	Lab: Introduction to Mechanical Instruments	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 3</b>						
DIS301	Business Communication	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS302	Organizational Behavior	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS313	Analog Electronics	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS314	Electronic Communication	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS305	Lab: Organizational Behavior	Practical	30	2	EE(20/50)	20/50
DIS316	Lab: Analog Electronics	Practical	30	2	EE(20/50)	20/50
DIS317	Lab: Electronic Communication	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 4</b>						
DIS401	Quality Control	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS402	Inventory Management	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS413	Digital Electronics	Theory	60	4	CA(20) + EE(32/80)	40/100
DIS404	Lab: Inventory Management	Practical	30	2	EE(20/50)	20/50
DIS415	Lab: Digital Electronics	Practical	30	2	EE(20/50)	20/50
DIS406	Project - DIS	Project	90	6	EE (60/150)	60/150
					<b>Total</b>	<b>220/550</b>

**B.Sc. (Industrial Science) (2016 pattern)****Code: P133**

Course Code	Course Name	Theory/ Practical / Project	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
<b>Semester 1</b>						
AEC001	English Communication	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS101	Applied Mathematics	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS102	Organizational Behaviour	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS103	Business Environment- I	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS104	Lab: Applied Mathematics	Practical	30	2	EE(20/50)	20/50
BIS105	Lab: Organizational Behaviour	Practical	30	2	EE(20/50)	20/50
BIS106	Lab: Business Environment- I	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 2</b>						
ENV121	Environmental Studies	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS201	Applied Science	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS202	Introduction to ERP	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS203	Business Environment- II	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS204	Lab :Applied Science	Practical	30	2	EE(20/50)	20/50
BIS205	Lab :Introduction to ERP	Practical	30	2	EE(20/50)	20/50
BIS206	Lab :Business Environment- II	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 3</b>						
ICT151	IT and E-Learning Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS301	Office Tools	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS302	Japanese Management Techniques	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS303	Quality Assurance & Control	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS304	Lab :Office Tools	Practical	30	2	EE(20/50)	20/50
BIS305	Lab :Japanese Management Techniques	Practical	30	2	EE(20/50)	20/50
BIS306	Lab :Quality Assurance & Control	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
<b>Semester 4</b>						
GEN204	Communication Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS401	Project Management using MS-Project	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS402	Entrepreneurship Development	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS403	Quality Management Systems	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS404	Lab :Project Management using MS-Project	Practical	30	2	EE(20/50)	20/50
BIS405	Lab :Entrepreneurship Development	Practical	30	2	EE(20/50)	20/50
BIS406	Lab :Quality Management Systems	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>

Semester 5						
OPN273	Personality and Career Skills	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS501	Engineering Graphics	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS502	Electrical Technology	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS503	Production Technology- I	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS504	Lab :Engineering Graphics	Practical	30	2	EE(20/50)	20/50
BIS505	Lab Electrical Technology	Practical	30	2	EE(20/50)	20/50
BIS506	Lab :Production Technology-I	Practical	30	2	EE(20/50)	20/50
					<b>Total</b>	<b>220/550</b>
Semester 6						
CMP332	Quantitative Aptitude	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS601	CNC Technology	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS602	Production Technology- II	Theory	60	4	CA(20) + EE(32/80)	40/100
BIS603	Lab :CNC Technology	Practical	30	2	EE(20/50)	20/50
BIS604	Lab :Production Technology-II	Practical	30	2	EE(20/50)	20/50
BIS605	Project	Project	90	6	EE (60/150)	60/150
					<b>Total</b>	<b>220/550</b>

**B.Sc. (Industrial Science) is not on offer this year since the approval is awaited from UGC. The learners who have already register can take further admissions.**

## 10. Fees

The total Programme Fee consists of 2 independent parts:

- University Programme Fees (UPF)
- Study Centre Fees (SCF)

The UPF is expected to cover the expenditures incurred or to be incurred by the university on various activities related to the program. While taking admission, the learner has to pay the entire UPF through online mode to the University.

The SCF is expected to cover the expenditures incurred or to be incurred by the SC on various activities related to the program. While taking admission, the learner has to pay the entire SCF to the Study Centre in person.

The university fees include the examination fees for the **first** attempt and the Convocation fees of Rs. 300/-.

**Note: No installments in the Fees will be given.**

### A) Certificate Programmes:

Sr. No.	Programme code	Name of the programme	University Programme Fees	Study Centre Fee	Total Fee
1)	D101	Computer Fundamentals	1100	1500	<b>2600</b>
2)	D102	Office Tools	1100	1500	<b>2600</b>
3)	D104	Computerized Financial Accounting	1100	1500	<b>2600</b>
4)	D105	Programming Expertise in C	1100	1500	<b>2600</b>
5)	D106	Data Structures using C	1100	1500	<b>2600</b>
6)	D107	OOPs and C++	1100	1500	<b>2600</b>
7)	D112	Visual Programming	1100	2500	<b>3600</b>
8)	D113	LINUX	1100	1500	<b>2600</b>
9)	D114	ORACLE	1100	2500	<b>3600</b>



### University Fee Breakup

Sr. No.	Programme code	Exam Fee	Tuition Fee	Reg. Fee	Other Fee	Dev Fund	University Programme Fees
1)	D101	300	250	100	200	250	1100
2)	D102	300	250	100	200	250	1100
3)	D104	300	250	100	200	250	1100
4)	D105	300	250	100	200	250	1100
5)	D106	300	250	100	200	250	1100
6)	D107	300	250	100	200	250	1100
7)	D112	300	250	100	200	250	1100
8)	D113	300	250	100	200	250	1100
9)	D114	300	250	100	200	250	1100

### B) Diploma Programmes

Sr. No.	Programme code	Name of the programme	Year	University Programme Fees	Study Centre Fee	Total Fee
1)	P141	Diploma in Industrial Science	FY	3600	6500	<b>10100</b>
2)			SY	3600	6500	<b>10100</b>

### University Fee Breakup

Sr. No.	Programme code	Year	Exam Fee	Tuition Fee	Reg. Fee	Other Fee	Dev Fund	University Programme Fees
1)	P141	FY	750	1000	100	200	1550	3600
2)		SY	1050	1000	100	200	1250	3600

### C) Degree Programmes

Sr. No.	Programme code	Name of the programme	Year	University Programme Fees	Study Centre Fee	Total Fee
1)	P131	Bachelor of Computer Applications (BCA)	FY	7100	12000	<b>19100</b>
			SY	9100	13000	<b>22100</b>
			TY	6100	10000	<b>16100</b>
			<b>Direct SY</b>	11100	13000	<b>24100</b>
2)	P133	B. Sc. (Industrial Science)	FY	3100	5000	<b>8100</b>
			SY	3100	5000	<b>8100</b>
			TY	3100	5000	<b>8100</b>
			<b>Direct SY</b>	5100	5000	<b>10100</b>

### University Fee Breakup

Sr. No.	Programme code	Year	Exam Fee	Tuition Fee	Reg. Fee	Other Fee	Dev Fund	Credit Transfer	University Programme Fees
3)	P131	FY	1050	1000	100	200	4750	-	7100
4)		SY	1050	1000	100	200	6750	-	9100
5)		TY	1350	1000	100	200	3450	-	6100
6)		<b>Direct SY</b>	1050	1000	100	200	6750	2000	11100
7)	P133	FY	450	400	100	200	1950	-	3100
8)		SY	450	400	100	200	1950	-	3100
9)		TY	750	400	100	200	1650	-	3100
10)		<b>Direct SY</b>	450	400	100	200	1950	2000	5100

## 11. Registration of Learners

It is necessary for the learner to attend the counseling and practical sessions at the Study Centre. So before selecting the study centre, the learner is advised to visit the nearby Study Centre of his/her choice and ensure that he/she is satisfied as per his/her needs. The list of authorized Study Centres is available on the website.

**Admission Process:** For admission process, please visit the university website (<http://ycmou.digitaluniversity.ac>) / Study Centre of your choice.

## 12. Changing the Study Centre

The Learner once registered, cannot change the Study Centre in-between the academic year for which the fees have been paid. However, while taking the admission next time, the learner can change the Study Centre.

## 13. Re-registration for Degree and Diploma Programmes

The registration to the programme **BCA/ BSc Industrial Science** will be valid for a period of 5 years including the year of registering for the first year. The learner should complete BCA /BSc (Industrial Science) successfully within this period.

The registration to the programme **Diploma in Industrial Science** will be valid for a period of 4-years duration. The learner should complete it within this period.

After the expiry of the valid registration period, the learner should re-register i.e. take fresh admission to the programme by paying to the University, the fees specified at that time (provided the University continues to offer this programme at that time). All the rules and regulations, which exist at the time of re-registration, will apply to the learner.

## 14. Evaluation

University has decided to conduct the **descriptive** end examination pattern. **Examination of all learners (including learners registered in old pattern) will be of descriptive type. Repeater learners will also be required to take descriptive type examination.**

A learner shall need to successfully complete all the courses in the academic program (including Industrial Training course, if any) to successfully complete the academic program.

The performance at the examinations for all the courses in the academic program (except those which are “exempted”) shall determine the overall class or division or Cumulative Grade Performance Average (CGPA).

### **Marks system:**

1. For the purpose of evaluation, there are three types of courses, namely, (i) Theory Courses (ii) Practical Course (iii) Project Course
2. For **Theory Courses**, there will be two components in examination, namely, (i) Continuous Assessment (CA) and (ii) End Examination (EE).
3. The Continuous Assessment (CA) for a Theory Course shall consist of activities including assignment, class test and seminars to be set, organized and evaluated by the respective Study Centre. The marks obtained by each learner (20% of the total marks) in a format given in by examination section must be submitted by the Study Centre (SC)

before the commencement of the EE, to the Controller of Examinations (CoE). The mark statement of the learners shall be displayed on the Notice Board by the SC and shall be uploaded by the YCMOU on its websites.

4. The EE (of 80 marks) shall be set, organized and evaluated under supervision and control of the Controller of Examination, YCMOU. The EE shall consist of compulsory questions of 5 marks each.
5. For successful completion of a Theory Course, the learner must secure at least 40 % marks in the EE AND at least 40% in combined total of CA and EE. In case the learner does not complete a theory course successfully, (s) he may take the EE as a repeater learner by paying requisite fee and by following stipulated procedure. Existing marks in CA of repeater learners will be considered while calculating result of repeat examination. **No repeat examination in CA will be taken. (Explanation:** A learner has, (for a course of 100 total marks), secured 20 marks out of 20 in CA and has secured 20 marks out of 80 in EE, thus has secured aggregate 40 marks out of 100. She shall not be treated as “passed” because she has not secured 40 % marks in EE. On the other hand, a learner who has obtained 5 marks out of 20 in CA (less than 40%) and 35 marks out of 80 in EE (more than 40%) thus securing 40 marks out of 100 in aggregate is treated as **successful** as she has secured more than 40% in EE and more than 40% in aggregate.)
6. There are standard errors of measurements (SEM) in any measurement process, including the psychometric process of student evaluation. To make up for injustice which may cause to examinees failing to secure required minimum marks by less than 1 SEM of marks, “grace” marks are awarded only for the Theory courses and *Theory* part of the Theory-cum-practical courses. There shall be grace marks awarded to examinees to the extent of 4% of maximum marks for the aggregate (CA+EE). Such grace marks shall be added to EE part only if the result of such operation results in the examinee becoming successful in completion of the course. Thus, for theory course of 100 marks (EE+CA), examinees who secured EE marks (out of 80) of 28,29,30 and 31 shall be given grace marks of 4,3,2,1 respectively, provided such addition results in the successful completion of the course. The modified marks shall be shown in the EE part of the mark statement.
7. For **Practical Courses** an end examination of maximum marks, shown in the course structure, shall be conducted at an examination centre with the facilities of laboratory for conduct of practical activities.
8. The learners, for the **Practical courses**, shall be evaluated with the following criteria. Actual Performance of the examinee shall carry a weight of 60%, the workbook Journal 20%, and a Viva of 20%. A candidate must secure 40% or more marks to successfully complete the practical courses.
9. No repeater examination in Continuous Assessment will be conducted.
10. The Project Work type of courses shall carry marks as defined in the course structure. Of these marks to be allotted, 50% marks are to be assigned by Internal Examiner and 50% by the External Examiner. The evaluation will be based on the performance of the learner in Viva Voce, Project Report and Presentation based on the Project work. The learner needs to secure 40% marks in the Project Examination to successfully complete the course.

**Learners Evaluation with Grade system:**

1. The examination system shall be same as that with the marking with the following additional changes:
2. The marks scored by the learner shall be converted into grade points using rules approved by the university authority.

3. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P and F. The UGC recommends a 10-point grading system with the following letter grades and points as given below:

Letter Grade and description	Grade Point
O (Outstanding)	10
A+(Excellent)	9
A(Very Good)	8
B+(Good)	7
B(Above Average)	6
C(Average)	5
P (Pass)	4
F(Fail)	0
Ab (Absent)	0

### **15. Award of passing certificate**

**Award of Certificate:** A learner becomes eligible for the award of certificate after successful completion of the course components included in the certificate programme.

**Award of Diploma:** A learner becomes eligible for the award of diploma after successful completion of the course components included in the diploma programme.

**Award of Degree:** A learner becomes eligible for award of degree after successful completion of the courses included in the concerned degree programme.

## 16. Contact Points at Study Centre and YCMOU

Type of Difficulties / Problems	Contact Points
Difficulties in any course and planning of academic activities at the Study Centre	The Counselor / Coordinator at Study Centre
Registration Related Matters	<b>Registration Head,</b> nondani@ycmou.digitaluniversity.ac Ph: (0253) 2230229, 9403774551
Registration, Student Services and Study Centre Related Matters/Grievances	Director, Student Services Division <b>dir_ssd@ycmou.digitaluniversity.ac</b> Ph: (0253) 2231478
Examination Related Matters	Deputy Registrar, Examination Ph: (0253) 2231479 / 2230058 examcomp.ycmou@gmail.com
Examination related Grievances	The Controller of Examination coe@ycmou.digitaluniversity.ac Ph: (0253) 2231479 / 2230058
Academic Matters/Study Centre related problems	School of Computer Science Ph: (0253) 2230717 <b>scs@ycmou.digitaluniversity.ac</b>
Grievances related to Academic Matters /Study Centre	Director, School of Computer Science <b>dir_comp@ycmou.digitaluniversity.ac</b>

## 17. Contact Details of the Regional Centres

Sr. No.	Name & Address of Region	District	Phone and Fax	Regional Director's Email-id
1)	<b>Amravati Region</b> YCMOU Regional Centre, V.M.V. To Valgoan Road, Post V.M.V., Amravati - 444 604	Akola Amravati Buldhana Yawatmal Washim	(0721) 2531445	rd_amravati@ycmou.digitaluniversity.ac
2)	<b>Aurangabad Region</b> YCMOU Regional Centre, Survey No.41, Near Military Hostel,Nandanwan Colony , Chhavni, Aurangabad - 431 002	Aurangabad Beed Jalna Osmanabad	(0240) 2371066, 2371077	rd_aurangabad@ycmou.digitaluniversity.ac
3)	<b>Mumbai Region</b> YCMOU Regional Centre, Jagannath Shankarsheth M.N.C. Primary Marathi School, Frear bridge(South) Nana Chowk, Grant Road (W), Mumbai 400 007	Mumba Raigad Thane Palghar	(022) 23874186, 23826135, 23874177	rd_mumbai@ycmou.digitaluniversity.ac
4)	<b>Nagpur Region</b> YCMOU Regional Centre, Subhedar Hall, University Sports Area, Law College Campus, Ravinagar Chouk, Amravati Road, Nagpur- 440001	Bhandara Chandrapur Gadchiroli Nagpur Wardha Gondia	(0712) 2553724, 25	rd_nagpur@ycmou.digitaluniversity.ac
5)	<b>Nashik region</b> YCMOU Regional Centre, Old Municipal Corporation Building, New Pandit Colony, Nashik - 422 002	Ahmednagar Dhule Jalgaon Nashik Nandurbar	(0253) 2317063	rd_nashik@ycmou.digitaluniversity.ac
6)	<b>Pune Region</b> YCMOU Regional Centre, Shahir Annabhau Sathe Prashala Gruha, School No. 5 (Boys), 654, Sadashiv Peth, Kumthekar Marg, Pune 411 030	Pune Satara Solapur	(020) 24457914	rd_pune@ycmou.digitaluniversity.ac
7)	<b>Kolhapur Region</b> YCMOU Regional Centre, Near Post Office Shivaji University Campus, Kolhapur 416 004	Kolhapur Sangli Ratnagiri Sindhudurg	(0231) 2607022	rd_kolhapur@ycmou.digitaluniversity.ac
8)	<b>Nanded Region</b> YCMOU Regional Centre, SRT Marathwada University Area, Zari Road, Near Military Boy's Hostel, Nanded - 421 606	Latur Nanded Parbhani Hingoli	(02462) 229940, 283038	rd_nanded@ycmou.digitaluniversity.ac

## 18. List of Study Centres for Computer Programmes

Note : for this academic year Diploma in computing is not offered

### Amravati Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Amravati	SC Code: 12163 <b>Brijlal Biyani Science College,</b> Biyani Educational Campus Dasera Maidan Road, Amravati	Dr. Anand Domaji Rangari 0721-2677011 9423649958	BCA Diploma in Computing Certificate Programmes

### Aurangabad Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Aurangabad	SC Code: 2181A <b>IT Study Centre,</b> Saikrupa, In Front of Muncipal Corp. School, Bansilal Nagar, Aurangabad	Ms.Nilima Bargal 0240-2348447 8805864624	BCA Diploma in Computing Certificate Programmes
2.	Aurangabad	SC Code: 21217 <b>Geetai Institute of Management,</b> Plot No.845, Shekta Road, Bidkin, District - Aurangabad, 431105	Ms. Kirtikumar Laxmanrao Ekhande 0240-2346432 9921966159	MCA BCA
3.	Jalna	SC Code: 2379A <b>Vyavasthapanshastra Mahavidyalaya,</b> Kharpudi, Jalna	Mr. Kuril Rohit Omprakash 02482-240058 9404611732	MCA BCA Diploma in Computing Certificate Programmes
4.	Jalna	SC Code: 2351A <b>Abhinav College of IT &amp; Management,</b> 25, Chatrapati Colony, Near Old Tahasil Office, Old Jalana	Mr. Pratik P. Jafrabadkar 02482-220582 9422928123	BCA Diploma in Computing Certificate Programmes

### Mumbai Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Mumbai	SC Code: 31236 <b>Smt.P.D.Hinduja Trust's Institute of Management Studies,</b> Hinduja College, 315, New Charni Road Mumbai	Mr.Maurya Arun Abhaydev 022-40989028 022-24137049 9867336636	MCA BCA Diploma in Computing Certificate Programmes
2.	Mumbai	SC Code: 31453 <b>Chikitsak Samuha SS and LS College,</b> Patkar College Campus,S V Road Opp. Filmstan Studio, Goregaon West, Mumbai 400062	Sameer Baban Kamble 970241037	MCA BCA Diploma in Computing Certificate Programmes
3.	Mumbai	SC Code: 31499 <b>Pune Vidyarthi Gruha's College of Science and Technology,</b> CTS No. 218, Br. Nath Pai Nagar, Ghatkopar(E), Mumbai 400 077	Gargote Seema Jitendra 022- 25069118/250691 15	MCA BCA

4.	Mumbai	SC Code: 3133A <b>Chetna's Hazarimal Somani College of Commerce &amp; Economics</b> , Smt. Kusumtai Chaudhari College of Arts, Survey No. 341, Near Govt. Colony, Bandra (E), Mumbai – 400 051	Shri. Shashikant Patil 022-26422750 9372227401	MCA BCA
5.	Mumbai	SC Code : 31500 <b>Anjuman-i-islam's Akbar Peerbhoy College of Commerce and Economics</b> Maulana Shaukat Ali Road, Do Taki, Grant Road(E), Mumbai 400 008	Shaikh Ahtesham Arif 022-23074122/23083405	MCA BCA
6.	Mumbai	SC Code : 3293A <b>Anandibai Pradhan Science College</b> , Bapusaheb Deshpande Edu. Complex Nagothane, Talika Roha, Raigad 402 106	Mahale Nilam Vikas 02194-222582	MCA BCA
7.	Mumbai	SC Code : 3552A <b>Vidya Prasarak Madal Sanchalit B.N. Bandodkar College of Science</b> , Building 06, Near CIDCO Bus stop Thane College Campus Chendani Koliwada, Thane(W) 400601	Kale Abhijeet Avinash 022-25336507/022-25337672	MCA BCA
8.	Mumbai	SC Code: 31279 <b>Atharva Institute of Information Technology</b> , Atharva Educational Tust's AET Campus, Charkop Naka, Malad(W)	Mrs. Aarti oberoi 022-40294931 022-28861994 9867463487	BCA Diploma in Computing Certificate Programmes
9.	Mumbai	SC Code: 31401 <b>Shri. Vinubhai Vrajalal Valia Study Centre</b> , M. K. School Complex, Factory Lane, Near Jambli Gali, Borivali (West), Mumbai 400092	Ved kunal Harden 022-28985320/ 28333347 8108217130	BCA Diploma in Computing Certificate Programmes
10.	Mumbai	SC Code: 31319 <b>Shree Mumbadevi Junior College of Commerce</b> , C/o C.U.Shah Sarvajanik High School ASHOK NGR., ASHOK MARG, Damodarwadi, KANDIVALI(E), Mumbai 400101	Mrs. Anamika Narag 9587373000 8097600090	BCA Diploma in Computing Certificate Programmes
11.	Mumbai	SC Code: 3119A <b>Dr. Shirodkar Education Society</b> , 142/49, Dr Shirodkar High School & College, Dr. Borjes Road, Parel	Mr. Ashish Suresh Gurav 022-64268523 9773415821	BCA Diploma in Computing Certificate Programmes
12.	Mumbai	SC Code: 31468 <b>Chandrabhan Sharma College of Arts, Science and Commerce</b> , Powai Vihar Complex, Powai	Mr. Sandeep Vishwakarma 022-25704526 9819543049	BCA Diploma in Computing Certificate Programmes



13.	Mumbai	SC Code: 31289 <b>Keerti Institute Of Information Technology,</b> 26/202, Anand Nagar, OM CHS. LTD., Nehru Road, Santacruz (E)	Ms.Arati Pawar 022-26550480 9833283867	BCA Diploma in Computing Certificate Programmes
14.	Mumbai	SC Code: 31272 <b>LN College of Management &amp; Technology,</b> Plot No 89, Near General Kariappa Bridge, Rajendra Nagar, Borivali (E) Mumbai 400066	Suman Ramuchit Gupta 9820479800 022-65000701/65000625	BCA Diploma in Computing Certificate Programmes
15.	Mumbai	SC Code: 31426 <b>Shri G.P.M. Degree College of Science &amp; Commerce</b> Rajarshi Shahu Maharaj Road, BMC School Bldg., Telli Galli, Andheri (E)	Ruchita Mishra 022-26840822/ 26833455 9959497704	BCA Diploma in Computing Certificate Programmes
16.	Mumbai	SC Code: 31442 <b>Mother Smile Junior College of Commerce &amp; Science</b> 3 <sup>rd</sup> floor, Akurli Municipal Building, Akurli Road, Kandivali(E),Mumbai 400101	Ms. Aditi Chavan 022- 64463932 9833970010/ 9224164523	BCA Diploma in Computing Certificate Programmes
17.	Mumbai	SC Code: 31394 <b>Sailee College of Commerce,</b> MHB Colony, Gorai Road, Borivali (W)	Mr. Yogesh D. Darade 022-28673105 7738131546	BCA Diploma in Computing Certificate Programmes
18.	Thane	SC Code: 35116 <b>Win Informatics Network,</b> Abhas, 1st floor, Oak Baug, New Station road, Behind Archies Apartement, Kalyan(W)Thane 421301	Mrs. Leena Shailesh Puranik 9819136938 0251-2311420/7718820320	BCA Diploma in Computing Certificate Programmes
19.	Thane	SC Code: 35201 <b>South Indian Children's Education Society's Jr. College,</b> KB Road, Jhambul Phata, Chikhholi, Ambarnath (W), Thane 421505	Mr. Venkateshwar Rao 0251-2680800 808717332	BCA Diploma in Computing Certificate Programmes
20.	Thane	SC Code: 35286 <b>Chima Patil Shikshan Sanstha,</b> At Dhaniv, Near Dhaniv Talao, Nallasopara (East),Tal. Vasai Dist. Palghar 401208	Ms. Suman Manojkumar Shukla 7021043300 9923908419	BCA Diploma in Computing Certificate Programmes
21.	Thane	SC Code: 35226 <b>KOKAN MUSLIM EDUCATION SOCIETY'</b> Rais High School Campus Thane Road, Bhiwandi	Mr. Mohd Tarique Momin 02522-225432 9552553115	BCA Diploma in Computing Certificate Programmes
22.	Raigad	SC Code: 3258A <b>Yashwant Memorial Trust,</b> Ashoka Gardens,B-14, Near City Post Office, Mahatama Pule Road, Panvel	Mr.Nitin Uttam Salve 022-27460181 022-27456463 9221289861	BCA Diploma in Computing Certificate Programmes

## Nagpur Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Nagpur	SC Code: 44245 <b>Microbyte Computer Academy</b> , 1st Floor, Opp. Dhiran Kanya School, Jhansi Rani Sq., Sitauldi, Nagpur	Mrs. Vaishali D. Sonawane 712-2551617, 2525964 9403869913	BCA Diploma in Computing Certificate Programmes

## Nashik Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
2.	Nashik	SC Code: 51155 <b>Sanjivani K.B.P. Polytechnic</b> , At. Sahajanandnagar, Post Shingnapur Kopargaon Dist. Ahmednagar	Prof. Pawar Yogesh 02423 – 222862 9850909004	MCA BCA
3.	Nashik	<b>Jumma Masjid Charitable Trust</b> , Naikwadipura, Nashik 422 001	Mr. Shaikh Asarar shabbir 0253-2237492	MCA BCA
4.	Nashik	SC Code: 51155 <b>Sanjivani K.B.P. Polytechnic</b> , At. Sahajanandnagar, Post Shingnapur, Kopargaon Dist. Ahmednagar	Prof. Pawar Yogesh 02423 – 222862 9850909004	MCA BCA
5.	Nashik	SC Code: 54428 <b>CHME Society's Dr. Moonje Institute of Management &amp; Computer Studies</b> , Bhonsala Military College Campus, Gangapur Road, Rambhoomi, Nashik	Dr. S.S. Zade 2532309617 9422582897	BCA Diploma in Computing Certificate Programmes
6.	Nashik	SC Code: 5484A <b>Modiyani 'S Computer Service &amp; Training Center</b> 03, Bombay House, Nr Bank of Maharashtra, Upnagar, Nashik	Sanjay Mohandas Modiyani 0253-2415081/ 2418518 9226807642	BCA Diploma in Computing Certificate Programmes
7.	Nashik	SC Code: 5647A <b>Perfect Computer Education</b> 2nd floor, Vani Gram Panchayat, Vani, Tal Dindori 422215	Asmita R Ghodsara 02557 - 220013/ 220014 9423969193	BCA Diploma in Computing Certificate Programmes
8.	Jalgaon	SC Code: 53113 <b>Dhanaji Nana Mahavidyalaya</b> Neharu Vidhay Nagar, Savada Road, Faizpur	Harshal Liladhar Chaudhari 02585-246436 9579284504	MCA BCA Diploma in Computing Certificate Programmes
9.	Jalgaon	SC Code: 53216 <b>Iqra's H. J. Thim College of Arts &amp; Science</b> Haji Gulam Nabi Nagar, Mehrun, Jalgaon	Mr. Farhan Anjum Shaikh 0257-2212735, 2211725 9021839423	BCA

10.	Dhule	SC Code: 5202A <b>Zulal Bhilajirao Patil College,</b> Deopur Dhule - 424 002	Mr. Girish B.Desle 02562-222343 9423193364	MCA BCA
11.	Dhule	SC Code: 5299A <b>Sharada S. &amp; S. Sanstha's Vidyadhan College</b> Near Stadium Gondur Airport Road, Valwadi, Dhule	Mrs. Rachita Ramkrishna Patil 02562-270010 9421283871	MCA BCA Diploma in Computing Certificate Programmes
12.	Dhule	SC Code: 5281A <b>Systel Institute of Management &amp; Research,</b> Kshire Colony, Wadibhokar Road, Deopur, Dhule	Prof. Hansraj Madhukar Patil 02562-272285 9422792685	MCA BCA Diploma in Computing
13.	Nandurbar	SC Code: 5531A <b>Mega Infotech</b> 19A, Nitin Nagar, Near Patel Residency Hotel, City/Town: Shahada, Tehsil: Shahada, District: Nandurbar	Mr. Patil Pankaj Dilip 02565-226073 9420968094	BCA Diploma in Computing Certificate Programmes

### Pune Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Pune	SC Code: 62501 <b>Suman Ramesh Tulsiani Technical Campus – Faculty of Engineering,</b> Khamshet, Taluka: Maval, District: Pune	Prof. Dynaneshwar Kudande 02114-264163 9665388364	MCA, BCA
2.	Pune	SC Code: 62515 <b>MES's Institute of Management and Career Courses (IMCC)</b> 131, Mayur Colony, Kothrud, Pune 411 038	Mrs. Jayashree Patil 020-25466271 / 25463453 9890971380	BCA
3.	Pune	SC Code: 62333 <b>Maharashtra Vidyarthi Sahayyak Mandal,</b> 484, Sadashiv Peth, Tilak Road, Pune	Ms. Indrani Ranade 020-24465774 9881365622	BCA Diploma in Computing Certificate Programmes
4.	Pune	SC Code: 6363A <b>Microcomm Infotech,</b> 1, Pushpa Apartment, Vanaz Corner, Paud Road, Kothrud, Pune 411038	Khole Kalyani Chandrashekhar 9371578976, 9423588530	BCA Diploma in Computing Certificate Programmes
5.	Pune	SC Code: 6366A <b>Global Information and Technologies,</b> Avadhपुरi, First Floor, Opp.Sumitra Hotel Karve Road, Kothrud, Pune	Vaishali Chilwar 020-25460354/ 25421876 9226797537	BCA Diploma in Computing Certificate Programmes
6.	Pune	SC Code: 6255A <b>Super Computer Institute</b> Janai Heights, PMT Chouk, Pune Nashik Road, Bhosari Pune 411039	Mr. Shankar Baburao Devare 020- 27126524 9890150175	BCA Diploma in Computing Certificate Programmes
7.	Pune	SC Code: 6364A <b>Deepak Computer &amp; Management Institute</b> S.No. 47/3/1, Chandan nagar, Pune	Mr.Venkatesh Iyengar 020-27019075 7620979056	BCA Diploma in Computing Certificate Programmes

8.	Satara	SC Code: 6466A <b>Shikshan Mandal Karad's Mahila Mahavidyalaya</b> Final Plot No. 222, Mangalwar Peth, Karad, Tal. Karad, District: Satara	Mr. Abhijit Ashokrao Patil 02164-228487 9730821404	BCA Diploma in Computing Certificate Programmes
9.	Satara	SC Code: 6411A <b>Surabhi Computers</b> 664/A, Kisan Veer Chowk, Dharmपुर, Wai, Dist. Satara	Jyoti Herkal 02167-220090 / 220050 9422400390	BCA Diploma in Computing Certificate Programmes
10.	Satara	SC Code: 6483A <b>OIIT Collge Of BCA &amp; Compluter Science</b> Tupewadi Road, Behind Reliance Petrol Pump, Dahiwadi, Tal Man Dist. Satara 412508	02165-221041 9922712072	BCA Diploma in Computing Certificate Programmes
11.	Satara	SC Code: 6485A <b>Darpan College of I.T. , Opp D.P. Bhosale College, Koregaon, Dist. Satara, 415 501</b>	Dhanshree basaveshwar Jagan 02136-221939	BCA Diploma in Computing Certificate Programmes
12.	Solapur	SC Code: 65152 <b>Shri Shiv-Parvati Sarvajanik Vikas Trust's Greenfingers College of Computer and Technology, Yashwantnagar, At.Post Akluj, Tal. Malshiras Dist Solapur</b>	Sanjay Subhash Salunkhe 02185-223225	MCA, BCA Diploma in Computing Certificate Programmes

### Kolhapur Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Kolhapur	SC Code: 71122 <b>Vivekanand College, Kolhapur</b> C.S.No. 2130 'E' Ward, Tarabai Park, Kolhapur 416 003	Head – Prof Vijay Bapuso Pujari 8421582547\	MCA BCA
2.	Sangli	SC Code: 72111 <b>Smt. Kasturbai Walchand College, Rajnemi Campus, Timber Area, Wood House Road, Sangli</b>	Prof. Kishor Kumbhar 0233-2327128/ 9403043840	BCA Diploma in Computing Certificate Programmes
3.	Sindhudurg	SC Code: 7482A <b>Women's College of Computer Studies &amp; Research, Near Ragnath market, Ubha Bazar, Sawantwadi 416510</b>	Miss Vibha Vilas Gawande 02363-271120 9405497818	MCA BCA
4.	Sindhudurg	SC Code: 7465A <b>Dnyankunj College of Information Technology &amp; Management Ravalnath Nagar, Oros, Tal. Kudal, Sindhudurg 416812</b>	Ms. Hemangi Ganpat Sawant 8600904188	MCA BCA Diploma in Computing Certificate Programmes
5.	Sindhudurg	SC Code: 7477A <b>Chikitsak Samuha, Kudal Chikitsak Samuha's College</b> 1 <sup>st</sup> floor, Parshuratna Co. Op. Hsg. Soc. Ltd. Opp. Rawool Maharaj College, Kudal	Dr. Mala P. Kharkar 02362 221682 9869487770	BCA Diploma in Computing Certificate Programmes

## 19. List of Study Centres for Industrial Science Programmes

### Amravati Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Amravati	SC Code: 12163 <b>Brijlal Biyani Science College,</b> Biyani Educational Campus Dasera Maidan Road, Amravati	Dr. Anand Domaji Rangari 0721-2677011 9423649958	B.Sc (Industrial Science) Diploma in Industrial Science

### Mumbai Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Mumbai	SC Code: 31342 <b>Thakur Institute of Aviation Technology,</b> On 90 Feet Road, Thakur Complex, Kandivali(E) Dist Mumbai 400101	Mr. Subhajit Maity 022- 28542481 9869561408	B.Sc (Industrial Science) Diploma in Industrial Science

### Nagpur Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Nagpur	SC Code: 4410A <b>Institute of Technology &amp; Engineering,</b> Premises of Dharampeth, M.P. Deo Memorial Science College, Ambazari, Nagpur	Mayuresh Gokhale 0712- 2240070 / 2241490 9423100151	B.Sc (Industrial Science) Diploma in Industrial Science
2.	Wardha	SC Code: 4577A <b>Dr. Ambedkar College of Social Work,</b> Mahatma Fule Colony, Sawangi (Meghe) Road, Wardha	Mr. Rahul D. Lambe 07152-242904 9503177312	B.Sc (Industrial Science)

### Nashik Region

Sr. No.	District	Study Centre	Coordinator	Programmes Approved
1.	Ahmednagar	SC Code: 51142 <b>Padmashri Vikhe Patil College of arts, Science &amp; Commerce,</b> Pravaranagar,	Prof. V.S. Tamboli 02422-273484 9049084786 9860387900	B.Sc (Industrial Science) Diploma in Industrial Science
2.	Ahmednagar	SC Code: 51155 <b>Sanjivani K.B.P.Polytechnic,</b> Kopargaon	Prof. Pawar Yogesh 02423 – 222862 9850909004	B.Sc (Industrial Science) Diploma in Industrial Science
3.	Ahmednagar	SC Code: 5139A <b>Amrutvahini Polytechnic,</b> Amrutnagar, Sangamner	Prof.Kulkarni B.L. K.S. Tambe 02425 – 259014 9028060876	B.Sc (Industrial Science) Diploma in Industrial Science
4.	Nashik	SC Code: 54383 Nashik Engineering Cluster C-10, "Sahashtra Rashmi", M.I.D.C., Ambad, Nashik	0253-6699222	B.Sc (Industrial Science) Diploma in Industrial Science

5.	Nandurbar	SC Code: 5551A <b>Soham Institute of Information Technology</b> , Ganesh Nagar, Dhule Road, Nandurbar	Mr. Swapnil V. Mishra 02564-224506 9422288120	B.Sc (Industrial Science) Diploma in Industrial Science
6.	Dhule	SC Code: 5299A <b>Sharda S. &amp; S. Sanstha's Vidyadhan College</b> , Gondur Airport Road, Near stadium, Valwadi, Dhule,	Amruta D. Patil 02562-270071/ 270010 9423659442	B.Sc (Industrial Science) Diploma in Industrial Science
7.	Nandurbar	SC Code: 5551A <b>Soham Institute of Information Technology</b> , Plot No. 19, Lokmanya Housing Society, Behind Post Office, Nandurbar	Mr. Swapnil Vitthalprasad Mishra 02564-223053 9422288120	B.Sc (Industrial Science)

### **Pune Region**

<b>Sr. No.</b>	<b>District</b>	<b>Study Centre</b>	<b>Coordinator</b>	<b>Programmes Approved</b>
1.	Pune	SC Code: 62386 <b>M.P.T.A. Education Ltd</b> , 2 <sup>nd</sup> floor, Kunal Plaza Near Chinchwad Railway Station, Chinchwad, Pune 411019	Shailesh A. Joshi 7387086676	B.Sc (Industrial Science) Diploma in Industrial Science

## Appendix A



**Yashwantrao Chavan Maharashtra Open University, Nashik**

### **Exemption Form for First Year BCA Programme**

Batch: July 2019

Name of the learner:

University /Board:

Sr. No.	Programme Name	University/Board	Year of passing	Percentage of Marks
1)	H.S.C. with mathematics			
	First year of Computer Degree Programme from other recognized university			
<b>OR</b>				
2)	3 years diploma in computer or information technology from State Technical board			

I am eligible for Direct Second Year Admission and hence I am applying for the same.

Date: \_\_\_\_\_

Signature of the Learner: \_\_\_\_\_

I have verified the eligibility documents for Direct Second Year Admission of the above learner and found him/her eligible for the same.

Study Centre Code: \_\_\_\_\_

Study Centre Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of the Study Centre Coordinator: \_\_\_\_\_

Stamp and Seal of the Study Centre

## Appendix B



Yashwantrao Chavan Maharashtra Open University, Nashik

### Exemption Form for First Year BSc (Industrial Science) Programme

Batch: July 2019

Name of the learner:

University /Board:

Sr. No.	Programme Name	University/Board	Year of passing	Percentage of Marks
1)	Statement of Marks of Std 10 <sup>th</sup> and			
	Statement of marks of all 3 years of Diploma of MSBTE			
<b>OR</b>				
2)	Statement of Marks of Std 12 <sup>th</sup>			
	Statement of Marks of all 3 years of Diploma of MSBTE			
<b>OR</b>				
3)	Statement of Marks of Std 12 <sup>th</sup>			
	Statement of Marks of all 2 years of Diploma of MSBTE			

I am eligible for Direct Second Year Admission and hence I am applying for the same.

Date: \_\_\_\_\_

Signature of the Learner: \_\_\_\_\_

I have verified the eligibility documents for Direct Second Year Admission of the above learner and found him/her eligible for the same.

Study Centre Code: \_\_\_\_\_

Study Centre Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of the Study Centre Coordinator: \_\_\_\_\_

Stamp and Seal of the Study Centre



## Appendix C

### Study Material

#### A. Bachelor of Computer Applications (BCA)

Course Code	Course Name	YCMOU Book (Print/PDF)/ Book from Market
<b>First Year</b>		
AEC001	English Communication	YCMOU book (PDF)
CMP501	Mathematics	YCMOU book (Print)
CMP502	Problem Solving using Computers	YCMOU book + Book From Market
CMP503	Programming using C++	YCMOU book (Print)
ENV121	Environmental Studies	YCMOU book (Print)
CMP504	Statistics	YCMOU book (Print)
CMP505	Data Structure using C++	YCMOU book (Print)
CMP506	Computer Networks	YCMOU book (Print)
<b>Second Year</b>		
ICT151	IT and E-Learning Skills	YCMOU book (PDF)
CMP507	Operating System	Book From Market
CMP508	Web Technologies	YCMOU book (PDF)
CMP509	Database Management System	YCMOU book (Print)
OPN272	Financial and Investment Skills	YCMOU book (PDF)
CMP510	Computer System Architecture	Book From Market
CMP511	Software Engineering	YCMOU book (PDF)
CMP512	JAVA	Book From Market
<b>Third Year</b>		
CMP332	Quantitative Aptitude	Book From Market
CMP513	E Commerce Technologies	Book From Market
CMP514	Advance JAVA	Book From Market
CMP515	Linux Administration	YCMOU book (Print)
OPN273	Personality and Career Skills	Book From Market
CMP516	Android Programming	Book From Market
CMP517	PHP Programming	Book From Market

#### Details of Reference Books from Market

Sr. No.	Course code and Name	Reference Books
1	Problem Solving using Computers (CMP502)	1. Let Us C by Yashavant Kanetkar 2. C language by E. Balaguru samy 3. Programming with C by Kernighan and Ritchie
2	Operating System (CMP507)	1. Operating Systems by Achyut Godbole 2. Operating Systems A Concept Based Approach -by Dhananjay dhamdhare 3. Operating System Concepts by Silberschatz, Galvin and Gagne.
3	Computer System Architecture (CMP510)	1. computer organization and architecture by william stallings 2. Computer Organization by Zvonco Vranesic and Safwat Zaky
4	JAVA (CMP512)	1. Programming with java. A Primer. E. BALAGURUSAMY 2. Java : Complete Reference

<b>5</b>	Quantitative Aptitude (CMP332)	<ol style="list-style-type: none"> <li>1. Quantitative aptitude by R.S Agarwal</li> <li>2. Arihant Publications - Fast Track Objective Arithmetic</li> <li>3. R.D. Sharma - Mathematics Class 11th and 12th</li> <li>4. Sarvesh K. Verma- Quantitative Aptitude</li> </ol>
<b>6</b>	E Commerce Technologies (CMP513)	<ol style="list-style-type: none"> <li>1. E-COMMERCE, Fifth Edition: AN INDIAN PERSPECTIVE by P.T. JOSEPH, S.J.</li> </ol>
<b>7</b>	Advance JAVA (CMP514)	<ol style="list-style-type: none"> <li>1. Jdbc, Servlets, and Jsp Black Book, New Edition</li> <li>2. The Complete Reference – JAVA Herbert Schildt</li> </ol>
<b>8</b>	Personality and Career Skills (OPN273)	<ol style="list-style-type: none"> <li>1. Emotional Intelligence: Why It Can Matter More Than IQ by Daniel Goleman, Bloomsbury</li> <li>2. Critical Thinking Skills: Developing Effective Analysis and Argument by Stella Cottrell, Palgrave</li> <li>3. PERSONALITY DEVELOPMENT by Elizabeth Hurlock, McGraw Hill Education</li> </ol>
<b>9</b>	Android Programming (CMP516)	<ol style="list-style-type: none"> <li>1. Wireless and Mobile Network Architectures by Yi Bang Lin, Wiley Publications</li> <li>2. Hello Android: Introducing Google's Mobile Development by Ed Burnette</li> <li>3. Mobile and Personal Communication System and Services by Raj Pandya, Prentice Hall, Eastren Economy Edition</li> </ol>
<b>10</b>	PHP Programming (CMP517)	<ol style="list-style-type: none"> <li>1. PHP: The Complete Reference by steven holzner</li> <li>2. Learning PHP, MySQL &amp; JavaScript: With jQuery, CSS &amp; HTML5 by Robin Nixon</li> <li>3. Code Smart: The Laravel Framework Version 5 for Beginners by Dayle Rees.</li> <li>4.. Building Web Apps with WordPress: WordPress As An Application Framework by Brian Messenlehner and Jason Coleman</li> </ol>

## B. B.Sc. (Industrial Science)

Course Code	Course Name	YCMOU Book (Print/PDF)/ Book from Market
<b>First Year</b>		
AEC001	English Communication	YCMOU book (PDF)
BIS101	Applied Mathematics	YCMOU book (Print)
BIS102	Organizational Behaviour	YCMOU book (Print)
BIS103	Business Environment- I	YCMOU book (Print)
ENV121	Environmental Studies	YCMOU book (Print)
BIS201	Applied Science	YCMOU book (Print)
BIS202	Introduction to ERP	YCMOU book (Print)
BIS203	Business Environment- II	YCMOU book (PDF)
<b>Second Year</b>		
ICT151	IT and E-Learning Skills	YCMOU book (PDF)
BIS301	Office Tools	YCMOU book (Print)
BIS302	Japanese Management Techniques	YCMOU book (Print)
BIS303	Quality Assurance & Control	YCMOU book (Print)
GEN204	Communication Skills	YCMOU book (Print)
BIS401	Project Management using MS-Project	YCMOU book (Print)
BIS402	Entrepreneurship Development	YCMOU book (Print)
BIS403	Quality Management Systems	Book From Market
<b>Third Year</b>		
OPN273	Personality and Career Skills	Book From Market
BIS501	Engineering Graphics	Book From Market
BIS502	Electrical Technology	Book From Market
BIS503	Production Technology- I	Book From Market
CMP332	Quantitative Aptitude	Book From Market
BIS601	CNC Technology	Book From Market
BIS602	Production Technology- II	Book From Market

### Details of Reference Books from Market

Sr. No.	Course code and Name	Reference Books
1	Quality Management Systems (BIS403)	<ol style="list-style-type: none"> <li>1. Principles of Quality Control by Jerry Banks-John Wiley &amp; Sons 2004</li> <li>2. Statistical Quality Control by Mahajan- Dhanpatrai &amp; Sons New Delhi 2001</li> <li>3. TQM and ISO 14000 by Dr. K. C. Arora K- Kataria &amp; Sons 2000</li> <li>4. Managing for Total Quality From Deming To Taguchi And SPC by N. Logothetis –Printecee Hall Private Ltd. New Delhi 2001</li> <li>5. Statistical Quality Control by L. Grant- Tata McGraw Hill 2004</li> </ol>
2	Personality and Career Skills (OPN273)	<ol style="list-style-type: none"> <li>1. Emotional Intelligence: Why It Can Matter More Than IQ by Daniel Goleman, Bloomsbury</li> <li>2. Critical Thinking Skills: Developing Effective Analysis and Argument by Stella Cottrell, Palgrave</li> <li>3. PERSONALITY DEVELOPMENT by Elizabeth Hurlock, McGraw Hill Education</li> </ol>

<b>3</b>	Engineering Graphics (BIS501)	<ol style="list-style-type: none"> <li>1. Engineering Drawing by N.D. Bhatt, Charoater Publishing House</li> <li>2. Engineering Graphics by D.M. Kulkarni, PHI</li> <li>3. Engineering Drawing by R.K. Dhavan, S Chand &amp; CO.</li> <li>4. Engineering Drawing by P.J. Shah, S Chand &amp; CO.</li> </ol>
<b>4</b>	Electrical Technology (BIS502)	<ol style="list-style-type: none"> <li>1. Electrical Technology Vol-I and Vol II by B.L. Theraja, S Chand &amp; CO.</li> <li>2. Fundamentals of Electrical Engineering by Saxena, S.B.La, Cambridge University Press</li> <li>3. Electrical and Electronic Instruments by A.K. Sawhney, Dhanpat Rai &amp; Sons</li> </ol>
<b>5</b>	Production Technology- I (BIS503)	<ol style="list-style-type: none"> <li>1. Production Engineering by P.C. Sharma, S. Chand Publications</li> <li>2. Elements of workshop Technology-Volume I &amp; II by S. K. Hajra Chaudhary, Bose, Roy, Media Promoters and Publishers</li> <li>3. Production Technology Volume- I &amp; II by O. P. Khanna &amp; Lal, Production Technology Volume- I &amp; II</li> <li>4. Workshop Technology Volume- I &amp; II by H.S. Bawa, Tata McGraw-Hill</li> <li>5. A text book of Foundry Tech. by O.P. Khanna, Dhanpat Rai Publications</li> </ol>
<b>6</b>	Quantitative Aptitude (CMP332)	<ol style="list-style-type: none"> <li>1. Quantitative aptitude by R.S Agarwal</li> <li>2. Arihant Publications - Fast Track Objective Arithmetic</li> <li>3. R.D. Sharma - Mathematics Class 11th and 12th</li> <li>4. Sarvesh K. Verma- Quantitative Aptitude</li> </ol>
<b>7</b>	CNC Technology (BIS601)	<ol style="list-style-type: none"> <li>1. S. K Hajra Choudhury , Elements of workshop technology – Vol. II., Media Promoters And Publishers, Mumbai</li> <li>2. Amitabh Ghosh and Asok kumar Mallik, Manufacturing science, Ellis Horwood Ltd</li> <li>3. Mikell. P. Grover, Fundamentals of Modern Manufacturing, Pearson Publications</li> <li>4. P. C. Sharma, Production Engineering, S. Chand Publication.</li> <li>5. Ibrahim Zeid and R. Sivasubramanian - CAD/CAM - Theory and Practice Tata McGraw Hill Publishing Co. 2009</li> <li>6. Ibrahim Zeid, —Mastering CAD/CAM— – Tata McGraw Hill Publishing Co. 2000</li> </ol>
<b>8</b>	Production Technology- II (BIS602)	<ol style="list-style-type: none"> <li>1. Production Technology by R. K. Jain, Khanna Publication</li> <li>2. Production Technology Volume- I &amp; II by O. P. Khanna &amp; Lal</li> <li>3. Elements of workshop Technology-Volume I &amp; II by S. K. Hajra Chaudhary, Bose, Roy, Media Promoters and Publishers</li> <li>4. Production Engineering by P.C. Sharma, S. Chand Publications</li> </ol>

### C. Diploma in Industrial Science

Course Code	Course Name	YCMOU Book (Print/PDF)/ Book from Market
<b>First Year</b>		
GEN204	Communication Skills	YCMOU book (Print)
DIS101	Health Safety & Environment	YCMOU book (Print)
DIS102	Basic IT Skills	YCMOU book (Print)
DIS103	Workshop Technology & Documentation	YCMOU book (PDF)
DIS201	Business Statistics	YCMOU book (Print)
DIS202	Electronic Devices	YCMOU book (PDF)
DIS203	Advance IT Skills	YCMOU book (Print)
DIS204	Introduction to Mechanical Instruments	YCMOU book (Print)
<b>Second Year</b>		
DIS301	Business Communication	YCMOU book (Print)
DIS302	Organizational Behavior	YCMOU book (Print)
DIS313	Analog Electronics	Book From Market
DIS314	Electronic Communication	Book From Market
DIS401	Quality Control	YCMOU book (Print)
DIS402	Inventory Management	YCMOU book (Print)
DIS413	Digital Electronics	Book From Market
BIS403	Quality Management Systems	Book From Market

#### Details of Reference Books from Market

Sr. No.	Course code and Name	Reference Books
1	Analog Electronics (DIS313)	<ol style="list-style-type: none"> <li>1. Communication System Analog &amp; Digital by R. P. Singh &amp; S. D. Sapre., TMH, 3rd Edition</li> <li>2. Analog and Digital Communication Systems by Martin S. Roden., PHI , 3rd Edition</li> <li>3. Communication Systems (Analog and Digital) by Sanjay Sharma – Katsons</li> <li>4. Digital &amp; Analog Communication systems by K. Sam Shanmugan, Wiley Publications</li> <li>5. Taub's Principles of Communication System by Herbert Taub, Donald Schling, Goutam Saha, Mc Graw Hill Education (India) Pvt. Ltd., 4th Edition</li> <li>6. Introduction to Analog &amp; Digital Communication- Haykin, Moher, Wiley Publication.</li> </ol>
2	Electronic Communication (DIS314)	<ol style="list-style-type: none"> <li>1. Electronic Communication, Kennedy, Davis TATA McGraw Hill. 5th Edition</li> <li>2. Electronic Communication System, Dennis Roddy, John Coolen, Pearson Education 4th Edition</li> <li>3. Electronic Communication Systems, Blake, CENGAGE Learning, 2nd Edition</li> <li>4. Communication Electronics, Principles and application, Frenzel, TATA McGRW-HILL, 3 rd edition.</li> </ol>
3	Digital Electronics (DIS413)	<ol style="list-style-type: none"> <li>1. Digital Electronics – Dr. R. S. Sedha – S. Chand Publications.(3rd Revised Edition)</li> </ol>

	<ol style="list-style-type: none"><li>2. Digital Electronics - Gothman - (PHI)</li><li>3. Digital Principles – Leach, Malvino, TMH (6th Edition)</li><li>4. Fundamental of Digital Circuits- Anand Kumar- Prentice Hall of India Pvt. Ltd</li><li>5. Digital System , Principles and Applications, Ronald J. Tocci,PHI</li><li>6. R.P. Jain , “Modern digital electronics” , 3rd edition , 12th reprint TMH Publication, 2007</li></ol>
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**UNIVERSITY GRANTS COMMISSION**  
**Distance Education Bureau**

**F.No. 1-18/2018 (DEB-I)**

**Dated: 08-05-2019**

**NAME/CATEGORY OF HEI** YASHWANTRAO CHAVAN MAHARASHTRA OPEN UNIVERSITY **NUMBER OF RECOGNISED PROGRAMMES : 30**

S.NO	STATE	NAME/CATEGORY OF HEI	PERIOD OF RECOGNITION	LIST OF PROGRAMMES RECOGNISED FOR 2018-19, ACADEMIC SESSION BEGINNING JULY, 2018 AND ONWARDS
				NAME OF RECOGNISED PROGRAMMES
1	MAHARASHTRA	YASHWANTRAO CHAVAN MAHARASHTRA OPEN UNIVERSITY	2018-19 TO 2022-23	1) BACHELOR OF SCIENCE (AGRICULTURE) 2) BACHELOR OF ARTS (MASS COMMUNICATION AND JOURNALISM) 3) BACHELOR OF LIBRARY AND INFORMATION SCIENCE 4) BACHELOR OF SCIENCE (MEDIA GRAPHICS AND ANIMATION) 5) BACHELOR OF COMMERCE 6) BACHELOR OF BUSINESS ADMINISTRATION (AVIATION, HOSPITALITY AND TRAVEL AND TOURISM MANAGEMENT) 7) BACHELOR OF EDUCATION 8) BACHELOR OF EDUCATION (SPECIAL EDUCATION) 9) BACHELOR OF SCIENCE (PHYSICS, CHEMISTRY, MATHS)* 10) BACHELOR OF COMMERCE (COOPERATIVE MANAGEMENT) 11) BACHELOR OF ARTS 12) BACHELOR OF SCIENCE (COMPUTER SCIENCE APPLICATION) 13) BACHELOR OF SCIENCE (HORTICULTURE) 14) BACHELOR OF SCIENCE (INDUSTRIAL DRUG SCIENCE) 15) BACHELOR OF SCIENCE (INDUSTRIAL SCIENCE) - UNDER REVIEW 16) BACHELOR OF SCIENCE (AUTOMOTIVE TECHNIQUES) - UNDER REVIEW 17) BACHELOR OF SCIENCE (CONSTRUCTION PRACTICES) - UNDER REVIEW 18) BACHELOR OF SCIENCE (ELECTRICAL AND ELECTRONICS TECHNIQUES) - UNDER REVIEW 19) BACHELOR OF SCIENCE (FACILITY SERVICES) - UNDER REVIEW 20) BACHELOR OF COMPUTER APPLICATIONS 21) MASTER OF SCIENCE (AGRICULTURAL EXTENSION) 22) MASTER OF ARTS (EDUCATION) 23) MASTER OF ARTS (DISTANCE EDUCATION) 24) MASTER OF COMMERCE (COMMUNICATION) 25) MASTER OF COMMERCE 26) MASTER OF LIBRARY INFORMATION SCIENCE 27) MASTER OF ARTS (ENGLISH) 28) MASTER OF SCIENCE (ENVIRONMENTAL SCIENCE) 29) MASTER OF COMPUTER APPLICATION 30) MASTER OF BUSINESS ADMINISTRATION  * In place of BACHELOR OF SCIENCE (PHYSICS), BACHELOR OF SCIENCE (CHEMISTRY), BACHELOR OF SCIENCE (MATHS) as mentioned previously; this is as per approval of Competent Authority.

*"We are reaching the stage where problems that we must solve are going to become insoluble without computers. I do not fear computers; I fear the lack of them"*

Isaac Asimov

*Recipient of the International Award for Institutional Excellence  
in Distance Education from Commonwealth of Learning, Canada*

**Yashwantrao Chavan Maharashtra Open University**

[Established by Government of Maharashtra]

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