यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ, नाशिक
नॅक मानांकित 'अ' श्रेणी

Yashwantrao Chavan Maharashtra Open University, Nashik
NAAC Accredited 'A' Grade

School of Computer Science

Prospectus

B.Sc. (Hons) (Data Science) (UGP04)

[UGC-DEB Programme Code: ODL33513]

Academic Session June 2025

Dnyangangotri, Govardhan, Near Gangapur Dam,
Nashik – 422 222
(0253) 2230459, 2230717

Web Site / Web Portal

http://www.ycmou.ac.in,
http://ycmou.digitaluniversity.ac

Email:

scmcs@ycmou.digitaluniversity.ac

विद्यापीठ गीत



एक प्रतिज्ञा असे आमुची ज्ञानाची साधना ।
चिरंतन ज्ञानाची साधना ।
ज्ञान हेच संजीवन साऱ्या जगताच्या जीवना ।। धृ ।।

ज्योत जागवू सुजाणतेची सकलांच्या अंतरी ।
तीच निवारील पटल तमाचे प्रभात सूर्यापरी ।
ज्ञानच देउळ, ज्ञानच दैवत, प्रगतीच्या पूजना ।। १ ।।

नव्या युगाचा नव्या जगाचा ज्ञान धर्म आहे ।
त्यातच अमुच्या उजळ उद्याचे आश्वासन राहे ।
मुक्त करिल तो परंपरेच्या बंदिघरातुन मना ।। २ ।।

हाच मंत्र नेईल आम्हाला दिव्य भविष्याकडे ।
न्यायनीतीचे पाऊल जेथे भेदाशी ना अडे ।
जे जे मंगल पावन त्याची जेथे आराधना ।। ३ ।।

कुसुमाग्रज

School of Computer Science	Student Services Division
Shri Madhav Palshikar, Director (I/C)	Prof. Prakash Deshmukh, Director
Dr Prakash Khanale, Senior Academic Coordinator	Smt. Shubhangi N. Patil, Assistant Professor
Smt. Rameshwari Pawar, Academic Coordinator	
Smt. Ranjita Rathor, Academic Coordinator	

© Yashwantrao Chavan Maharashtra Open University
Publication: **20 June 2025**
Publisher: Registrar, YCMOU, Nashik - 422 222

Contents

Sr. No.	Title	Page No.
	Academic Calendar	1
1	About the School of Computer Science	2
2	Need for Programmes	2
3	Learner Support Centre	3
4	Programmes offered by the School of Computer Science	3
5	Eligibility and Documents to be uploaded while applying	4
6	Language of Instruction	5
7	Educational Network for Programme Delivery	5
8	Programme Structure	6
9	Fees	8
10	Registration of Learners	9
11	Common Entrance Test	9
12	Changing the Learner Support Centre	11
13	Teaching Learning Process	11
14	Evaluation	12
15	Cyber Security	16
16	Award of Degree	16
17	Contact Points at Learner Support Centre and YCMOU	17
18	Contact Details of the Regional Centres	18
	Appendix A: Instructions for creating the Academic Bank of Credits –ID	19
	Appendix B: UGC approval for the university	20
	Appendix C: Dual Degree- UGC letter dated 13 April 2022 & Guidelines for pursuing two Academic Programmes simultaneously	21
	Appendix D: मुक्त विद्यापीठाच्या पदवी आणि पदविकांना समकक्षता आणि मान्यता देणारा महाराष्ट्र शासनाचा निर्णय	24
	Appendix E : Cyber Security course (Mandatory Audit Course)	25
	Appendix F: List of Open Electives (OE)	27
	Appendix G: List of Co-Curricular Course (CC)	29

Academic Calendar

Sr. No.	Name of the Activity	Tentative schedule			
		Odd Semester		Even Semester	
		From	To	From	To
1	Admission	01/06/2025	30/06/2025	01/01/2026	31/01/2026
2	Online availability of SLM	July	July	February	February
3	Contact Programmes	August	December	February	May
4	Assignment Submission	November	November	April	April
5	Evaluation of Assignments	December	December	May	May
6	Examination (Practical and Project)	December/ January	December/ January	May/June	May/June
7	Examination (Theory)	December/ January	December/ January	May/June	May/June
8	Declaration of Result	February	February	July	July

Note: For the latest updates/decisions regarding registration, examination and other related topics including schedule of the Internal assessment, learners should visit the university website and Learner Support Center (LSC) regularly (at least once in a week).

1. About the School of Computer Science

The School of Computer Science is one of the schools of studies in 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 Learner Support Centers.

2. Need for Programme

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.

This programme combines the intellectual challenge of a new discipline with the excitement of an innovative and rapidly expanding information technology. This programme is 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.

"Empower Your Future with a Flexible BSc in Data Science – Learn Anytime, Anywhere!"

Step into the future of technology and analytics with a BSc in Data Science through distance learning—a program designed for aspiring data professionals who seek flexibility without compromising quality. This course equips you with essential skills in statistics,

programming, machine learning, and data visualization, all from the comfort of your home. With a strong focus on practical application and real-world problem-solving, you'll be prepared for high-demand careers in IT, finance, healthcare, and beyond. Whether you're a working professional or a recent XII passout, this flexible and career-oriented program is your gateway to the booming world of data science. Enroll now and turn data into opportunity!

3. Learner Support Centre

The Learner Support Centre (LSC) is authorized to conduct computer programmes offered by the University. Specific programmes are assigned to that Learner Support Centre depending on the infrastructure available.

The Coordinator of the Learner Support Centre shall look after all the activities of the LSC.

The Learner Support Centre performs the following important functions:

- Conduct the Courses as prescribed by the University.
- Forward necessary information to the University as and when required.
- Organize counseling sessions, practical sessions as per the planned time table prepared by the Learner Support Centre and submitted to YCMOU at the beginning of the academic year.
- Preserve all necessary records related to LSC activities.
- 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 Learner Support Centre. The Coordinator/Counselor/Supervisor of the Learner Support Centre will supervise the practical activities.

4. Programmes offered by the School of Computer Science

Programme Code	Name of the programme	Duration	Valid registration period	UGC-DEB Programme Code
P163	Master of Computer Applications (MCA)	2 years	4 years	ODL33541
UGP05	Bachelor of Computer Applications (BCA) (2025 Pattern)	3 years	6 years	ODL33512
P131	Bachelor of Computer Applications (BCA) (2016 Pattern)	3 years	5 years	ODL33512
UGP04	Bachelor of Science (Hons) (Data Science) [B.Sc. (Hons) (DS)] (2025 Pattern)	3 years	6 years	ODL33513
D178	Diploma in Computerized Financial Accounting	1 year	2 years	--
C188	Certificate in Advanced Excel	6 Months	1Year	--

C189	Certificate in Computerized Financial Accounting	6 months	1 year	---
C190	Certificate in Advanced Computerized Financial Accounting	6 Months	1Year	---
C191	Certificate in Data Analytics	6 Months	1Year	---

Programmes offered by School of Computer Science in Collaboration with Institutes:

Programme Code	Name of the programme	Duration	Collaboration with
D212	Diploma in IT & ITeS (2024 Pattern)	3 Years	Yashswi Skills Limited, Pune
D211	Advanced Diploma in IT & ITeS (2024 Pattern)	2 Years	
D217	Diploma in Cyber Crime Investigation (2025 Pattern)	1 Year	CYECOPS LLP, Pune
C229	Certificate in Cyber Acts (2025 Pattern)	3 Months	
C230	Certificate in CDR Analysis and Cyber Crime Investigation (2025 Pattern)	5 Days	
C231	Certificate in Mobile and Cyber Forensics (2025 Pattern)	5 Days	
C226	Certificate in Data Analytics with Internship (2025 Pattern)	6 Months	Maharishi Karve Stree Shikshan Samstha (MKSSS) AIT, Pune

5. Eligibility and Documents to be uploaded while applying

(I) Eligibility

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

Sr. No.	Name of the programme and Programme Code	Year	Pre Qualification
1	B.Sc (Hons) (Data Science) (UGP04)	FY	1. Obtaining Qualifying marks in Common Entrance Test conducted by the university **AND** 2. 12th standard of HSC Board of Maharashtra (Science/ Commerce/ Arts), or its equivalent [including MCVC] **OR** 2.3-year Diploma of Board of Technical

			Examination or equivalent **OR** 2.2-year ITI Programme of any trade after 10th standard **OR** 2-year course of Maharashtra State Board of Vocational Education after 10th

(II) Documents to be uploaded while applying

Year and programme	Documents to be uploaded
FY B.Sc. (Hons) (Data Science)	1) Result of Common Entrance test conducted by the university. 2) Age Proof (Birth Certificate, driving license, Aadhar Card, PAN Card, Leaving Certificate) 3) Statement of Marks of Std 12th **OR** 3) Statement of Marks of Std 10th AND Statement of marks of all 3 years of Diploma **OR** 3) Statement of Marks of Std 10th **AND** Statement of marks of all 2 years of ITI **OR** 3) Statement of Marks of Std 10th **AND** Statement of marks of all 2 years of MS Board of Vocational Education course

6. Language of Instruction

The medium of instruction of all the programmes is English Language only. **All Study Material of the programmes is in English in the form of PDF**. The medium of examination will be English; however, the Coordinator, Counselor or supervisor 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 Learner Support 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 / Online contact sessions organized at the Learner Support Centres.
- Practical Components handled at the Learner Support Centres.
- Evaluation of learners at the Examination Centers.

8. Programme Structure

B.Sc. (Hons) (Data Science) (2025 pattern) [UGP04]

Course Code	Category	Course Name	Theory/ Practical /Project	Contact (HRS)	Credit Points	Assessment Type	Passing Marks
Semester1							
DSCC101	Major	Python for Data Science	Theory	60	4	CA(12/30) + EE(28/70)	40/100
DSCC102	Major	Lab: Python for Data Science	Practical	15	2	CA(10/25) + EE(10/25)	20/50
	OE	Choose from OE list (Appendix F)					
	OE	Choose from OE list (Appendix F)					
DSCV101	VSC	Advance Excel	Practical	15	2	CA(10/25) + EE(10/25)	20/50
DSCS101	SEC	Fundamentals of Programming	Practical	15	2	CA(10/25) + EE(10/25)	20/50
AECL101	AEC	Listening and Speaking Skills	Theory	30	2	CA(6/15) + EE(14/35)	20/50
VECD101	VEC	Introduction to Constitution of India	Theory	30	2	CA(6/15) + EE(14/35)	20/50
IKSK104	IKS	भारतीय ज्ञान परंपरेच्या अनुशंगाने विज्ञान व तंत्रज्ञान	Theory	30	2	CA(6/15) + EE(14/35)	20/50
	CC	Choose from CC list (Appendix G)					
					22	**Total**	**220/550**
Semester 2							
DSCC103	Major	Foundation of Statistics	Theory	60	4	CA(12/30) + EE(28/70)	40/100
DSCC104	Major	Lab: Foundation of Statistics	Practical	15	2	CA(10/25) + EE(10/25)	20/50
IOTM101	Minor	Fundamentals of IoT	Theory	30	2	CA(6/15) + EE(14/35)	20/50
	OE	Choose from OE list (Appendix F)					
	OE	Choose from OE list (Appendix F)					
DSCS102	SEC	Digital Marketing	Practical	15	2	CA(10/25) + EE(10/25)	20/50
DSCV102	VSC	Web Technology	Practical	15	2	CA(10/25) + EE(10/25)	20/50
AECL102	AEC	Reading and Writing Skills	Theory	30	2	CA(6/15) + EE(14/35)	20/50
VECD102	VEC	Environmental Studies	Theory	30	2	CA(6/15) + EE(14/35)	20/50
	CC	Choose from CC list (Appendix G)					
					22	**Total**	**220/550**
Award of UG Certificate in the Faculty of Computer Science – Data Science (Level 4.5) with 44 credits and an additional 4 credits core NSQF course/Internship OR Continue with Major and Minor							
Semester 3							
DSCC201	Major	Database Management System	Theory	60	4	CA(12/30) + EE(28/70)	40/100
DSCC202	Major	Vedic Mathematics	Theory	30	2	CA(6/15) + EE(14/35)	20/50
DSCC203	Major	Design and Analysis of Algorithms	Theory	30	2	CA(6/15) + EE(14/35)	20/50
IOTM201	Minor	IoT Hardware and Software	Theory	30	2	CA(6/15) + EE(14/35)	20/50
IOTM202	Minor	Lab: Microcontrollers	Practical	15	2	CA(10/25) + EE(10/25)	20/50
	OE	Choose from OE list (Appendix F)					
DSCV201	VSC	Lab: DBMS	Practical	15	2	CA(10/25) + EE(10/25)	20/50
AECL201	AEC	श्रवण आणि संभाषण कौशल्ये	Theory	30	2	CA(6/15) + EE(14/35)	20/50

DSCF201	FP	Mini Project	Practical	15	2	CA(20/50)	20/50
	CC	Choose from CC list (Appendix G)					
					22	**Total**	**220/550**
Semester 4							
DSCC204	Major	Mathematics for Data Science	Theory	60	4	CA(12/30) + EE(28/70)	40/100
DSCC205	Major	Data Visualization & Modelling	Theory	60	4	CA(12/30) + EE(28/70)	40/100
IOTM203	Minor	Networking and Connectivity	Theory	30	2	CA(6/15) + EE(14/35)	20/50
IOTM204	Minor	Lab: IoT Network	Practical	15	2	CA(10/25) + EE(10/25)	20/50
	OE	Choose from OE list (Appendix F)					
DSCS201	SEC	Lab: Data Visualization	Practical	15	2	CA(10/25) + EE(10/25)	20/50
AECL202	AEC	वाचन आणि लेखन कौशल्ये	Theory	30	2	CA(6/15) + EE(14/35)	20/50
DSCG201	CEP	Community Engagement Programme	Practical	15	2	CA(20/50)	20/50
	CC	Choose from CC list (Appendix G)					
					22	**Total**	**220/550**
Award of UG Diploma in the Faculty of Computer Science - Data Science (Level 5.0) with 88 credits and an additional 4 credits core NSQF course/ Internship OR Continue with Major and Minor							
Semester 5							
DSCC301	Major	Artificial Intelligence	Theory	60	4	CA(12/30) + EE(28/70)	40/100
DSCC302	Major	Machine Learning & Deep Learning Algorithms	Theory	60	4	CA(12/30) + EE(28/70)	40/100
DSCC303	Major	Lab: Machine Learning and Deep Learning	Practical	15	2	CA(10/25) + EE(10/25)	20/50
IOTM301	Minor	IoT Data Management and Analytics	Theory	30	2	CA(6/15) + EE(14/35)	20/50
IOTM302	Minor	Lab: IoT Data Management	Practical	15	2	CA(10/25) + EE(10/25)	20/50
DSCV301	VSC	R Programming	Practical	15	2	CA(10/25) + EE(10/25)	20/50
DSCF301	FP	Field Project	Practical	15	2	CA(20/50)	20/50
Elective Course Select Any one (DSCC304 & DSCC305) OR (DSCC306 & DSCC307)							
DSCC304	Major (Elective)	Software Engineering	Theory	30	2	CA(6/15) + EE(14/35)	20/50
DSCC305		Lab: Software Engineering	Practical	15	2	CA(10/25) + EE(10/25)	20/50
OR							
DSCC306	Major (Elective)	Game Development (Pygame)	Theory	60	4	CA(12/30) + EE(28/70)	40/100
DSCC307		Lab: Game Development (Pygame)	Practical	15	2	CA(10/25) + EE(10/25)	20/50
					22	**Total**	**220/550**
Semester 6							
DSCC308	Major	Big Data Analytics	Theory	60	4	CA(12/30) + EE(28/70)	40/100
DSCC309	Major	Cloud Computing	Theory	60	4	CA(12/30) + EE(28/70)	40/100
DSCC310	Major	Lab: Big Data Analytics	Practical	15	2	CA(10/25) + EE(10/25)	20/50
IOTM303	Minor	Industrial IoT	Theory	30	2	CA(6/15) + EE(14/35)	20/50
IOTM304	Minor	IoT Project	Project	15	2	CA(10/25) + EE(10/25)	20/50
DSCO301	OJT	OJT Project	Project	30	4	CA(20/50) + EE(20/50)	40/100
Elective Course Select Any one (DSCC311 & DSCC312) OR (DSCC313 & DSCC314)							
DSCC311	Major	Business Analytics	Theory	30	2	CA(6/15) + EE(14/35)	20/50

DSCC312	(Elective)	Lab: Business Analytics	Practical	15	2	CA(10/25) + EE(10/25)	20/50
OR							
DSCC313	Major (Elective)	Core Java	Theory	30	2	CA(6/15) + EE(14/35)	20/50
DSCC314		Lab: Core Java	Practical	15	2	CA(10/25) + EE(10/25)	20/50
					22	**Total**	**220/550**

Note: For CC (Co-curricular Courses) Learner will select options of his/her choice from Health and Wellness; Yoga; Sprots and Fitness; Cultural Activities; Fine Arts; Applied Arts; Visual Arts; Performing Arts; NSS; NCC. For more details refer Appendix G.

9. Fees

The Total Programme Fee consists of four independent parts:

- **Mandatory Fees:** Mandatory fees include fees towards Prospectus, Registration, Eligibility Checking, Identity Card, E-Suvidha / E-Services, Sanwad, Sports, Student Welfare (DSW), Chancellor office Events, Disaster Management, Library, NSS, Student Insurance, Convocation and Alumni.
- **LSC Share:** The LSC share is expected to cover the expenditures incurred or to be incurred by the LSC on various activities related to the programme.
- **University Share:** The University share is expected to cover the expenditures incurred or to be incurred by the university on various academic activities related to the programme.
- **Exam Fees:** The exam fees include the examination fees for the first attempt.

Note: Every year there will be 10% increase in the fees.

Sr. No.	Name of the programme	Year	Mandatory Fee	University Share	LSC Share	Exam Fee	Total Programme Fee
1.	B.Sc.(Hons) (Data Science) (2025 Pattern)	FY	628	9328	21764	3300	**35,020**
		SY	518	9397	21,925	3180	**35,020**
		TY	978	9106	21246	3690	**35,020**

The Learner will be required to pay total Programme fees while taking online admission. No installments in the fees will be given.

Mandatory Fee Breakup

Sr.No.	Nature of Fees	FY	SY	TY
1	Registration	200	200	200
2	Eligibility	100	0	0
3	Identity Card	10	0	0
4	Prospectus	50	50	50
5	e-Suvidha/e-Services	70	70	70
6	Library	10	10	10
7	Chancellor's Office Events	38	38	38
8	Sports	50	50	50
9	DSW	50	50	50
10	Disaster Management	10	10	10

11	NSS	10	10	10
12	Alumni	0	0	10
13	Sanwad	10	10	10
14	Graduation/Convocation	0	0	450
15	Learner Insurance	20	20	20
	Total	**628**	**518**	**978**

Important Note: As Per the Policy Decision of Yashwantrao Chavan Maharashtra Open University (YCMOU),in line with the university's commitment to ensuring inclusive education, Transgender persons ,children's of farmers who have committed suicide and visually impaired students will get admission with a nominal fee of ₹ 10/- (₹ Ten) only.

10. Registration of Learners

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

Admission Process: For admission process, please visit the university portal (http://ycmou.digitaluniversity.ac) / Learner Support Centre of your choice.

11. Common Entrance Test

The candidates seeking admission to the Bachelor of Science (Hons) (Data Science) [B.Sc.(Hons) (Data Science)] programme of this University will have to appear for the Common Entrance Test conducted by the university and get the qualifying marks in it.

The Common Entrance Test will be conducted online and will have the duration of 50 minutes. The test consists of 50 multiple choice questions, carrying maximum of 100 marks (each question 2 Marks). Candidate must obtain a minimum of 40 marks for becoming qualified for B.Sc. (Hons) (Data Science) admission. The candidate will have choice to take Mock test before appearing for CET.

Schedule of Common Entrance Test: Schedule will be declared by separate notification by the University. Students are requested to see YCMOU website for the same.

Nature and Composition of CET:

- All the questions are 'multiple choice' type, having four options.
- The candidate has to 'select' most correct option as the correct answer.
- No negative marking for wrong answer.
- The test consists of the following sections.

Sr. No.	Section	Details	No.of Questions and Marks
1	Basic knowledge of Computer/IT	Input output devices, Components of a Computer System, Basic of Operating System, Software Applications, Internet basics,HTML,Social media,Networking fundamentals (LAN, WAN, Wi-Fi), Email, Web browsers, Office applications	20 Questions 40 Marks
2	Numerical Ability	Computational, Linear equation, Polynomials, Metrics, Determinants, Set Theory, Ratios and Proportion, Profit and Loss, Simple and Compound interest	10Questions 20 Marks
3	Logical Reasoning	Patterns, sequences, Blood Relation, Mirror image, Logical deduction.	10Questions 20 Marks
4	General Aptitude and English Communication	Language skills (Vocabulary, Grammar, Reading comprehension), Current Affairs, General knowledge, Mental ability	10Questions 20 Marks

To prepare effectively for the CET, you can refer to various books and online resources. List of some reference books and digital resources are given below:

Reference Books:

- Computer Fundamentals" by P.K. Sinha
- Quantitative Aptitude for Competitive Examinations" by R.S. Aggarwal
- A Modern Approach to Verbal & Non-Verbal Reasoning" by R.S. Aggarwal
- Objective General English" by S.P. Bakshi
- High School English Grammar - Wren and Martin for Grammar
- Class XI & XII Mathematics by R.D. Sharma, etc.

Websites:

- ww.indiabix.com
- www.geeksforgeeks.org
- www.tutorialspoint.com
- www.sanfoundry.com

Sample Questions:

Q 1. Which of the following is an input device?

(A) Monitor (B) Printer (C) Keyboard (D) Speaker

Q 2.Which software would you use to create a document?

(A) MS Word (B) MS Excel (C) MS PowerPoint (D) MS Access

Q 3.CPU stands for --------

(A) Central Process Unit (B) Central Processing Unit

(C) Control Processing Unit (D) Central Power Unit

Q4.Which is the number, which when squared and added to 12 becomes 7 times its value?

(A) 2 (B) 3 (C) 5 (D) 6

Q 5. Rama and Krishna hire a pasture for Rs.260. Rama puts 20 cows for 3 months and Krishna puts 35 cows for 2 months. The amount to be paid by Rama will be -

(A) Rs.100 (B) Rs.115 (C) Rs.120 (D) Rs.140

Q 6. Find the next number in the sequence: 2, 6, 12, 20, ___

(A) 28 (B) 30 (C) 32 (D) 34

Q 7. Eight friends Ajay, Vikas, Ronak, Amit, Gaurav, Nikhil, Neeraj and Sagar are sitting in a circular table for having their dinner. Amit is sitting between Ajay and Gaurav. Aurav is sitting second to the right of Nikhil. Vikas is sitting between Ronak and Neeraj.4) Nikhil is sitting between Neeraj and Sagar. Who is sitting between Ronak and Amit?

(A)Ajay (B) Vikas (C) Neeraj (D) Sagar

Q 8. In a certain code, 'BEAT' is written as 'YVZG'. How is 'MILD' written in that code?

(A) NROF (B) ORNF (C) NRMF (D) ONRF

Q9.Choose the word which is most nearly the same in meaning to "ADHERE":

(A) Separate (B) Stick (C) Ignore (D) Quit

Q 10. Who is known as the 'Father of the Indian Constitution'?

(A) Mahatma Gandhi (B) Jawaharlal Nehru

(C) Dr. B.R. Ambedkar (D) Sardar Vallabhbhai Patel

12. Changing the Learner Support Centre

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

13. Teaching Learning Process

There are three types of learners taking admission for the programmes in YCMOU.

1. Working/ in job persons.
2. Fresh learners doing dual degrees.
3. Fresh learners doing only YCMOU degree.

First two types of learners prefer the week-end or evening sessions while the third type of learners expect regular class similar to conventional universities.

Learner Support Centre prepares timetable suitable for the majority of the learners. Timetable is prepared to provide minimum hours of counseling sessions and practical sessions for the learners. Learners are expected to attend at least 75% counseling sessions and complete all necessary practical and prepare Workbook Journal.

Those learners who fail to attend the counseling sessions are provided with the notes, presentations and exercises of the sessions. Learners are expected to go through it, do the self study and solve and submit the exercises to the Learner Support Centre. The learners who are absent for actual counseling sessions but do self study and submit the solved exercises in satisfactory manner (exercises are given by the LSC) are considered present for that session.

For practical sessions also, if learner opts for doing the practical at home on his/her computing resources, it is acceptable. But in that case learner is required to visit Learner Support Centre and satisfy the supervisor about the completion of practical work satisfactorily and get the Workbook/ Journal signed by the supervisor.

For each theory course (4 credit points) 30 counseling sessions are scheduled. Each counseling session is of two hours duration. For each practical course (2 credit points) 15 practical sessions are conducted.

With the availability of ICT at LSCs and learners, some Learner Support Centres conduct 70% online counseling sessions to reduce the travel time of the learners. The recording of the online counseling sessions is made available to the learners for future reference.

Sports, Cultural and Research Competitions

The Department of Student Welfare in the university, conducts sports, cultural and research competitions at Regional Level. The selected learners/ team of learners get opportunity to participate at the University level event. The selected learners/ teams represent the university at Inter University Competitions held every year.

14. Evaluation

As per NEP2020, the evaluation pattern of the B.Sc.(Hons) (Data Science) Programme consists of the following components.

Components	Credits	University Assessment Marks	Continuous Assessment Marks	Total Marks	Passing Marks
Theory papers	4	70	30	100	Secure minimum 40% marks in University Assessment as well as Continuous Assessment separately.
	2	35	15	50	
Field Project/ OJT	4	50	50	100	
Projects	4	50	50	100	
	6	75	75	150	

- Learner will have to obtain minimum 40% marks to pass in each course in university assessment and continuous assessment separately.
- The marks obtained by the learner in Continuous Assessment and University Assessment will be shown separately in the Mark Sheet.

(A) Internal Assessment (Continuous Assessment i.e. Home Assignment):

For 30 marks	For 15 marks
Home Assignment 1: Total: 20 Marks • One Long answer questions (10 Marks) • Two short answer questions (10 Marks)	**Home Assignment 1:** Total: 15 Marks • One Long answer questions (10 Marks) • One short answer questions (5 Marks)
Home Assignment 2: Total 10 Marks • 10 objective type questions each of 1 mark	

In each Semester, for all theory courses home assignments will have to be submitted. (Except in case OJT/Field Project and Research Projects)

1. University will upload the home assignment questions on university website http://ycmou.digitaluniversity.ac learners should download the home assignment questions from the university website.
2. The learners must submit neatly hand-written home assignments in softcopy format through the Home Assignment submission portal, as per the schedule declared by the University.
3. These assignments shall be evaluated by the Counselors of the concerned courses.
4. Learners should follow the university guidelines regularly and communicate with their respective Learner Support Centers for submission of their assignments within time.
5. The learners who fail to submit these assignments within the stipulated time would not to be allowed to re-submit the same after the commencement of the Semester end examination and he/she would be awarded 'zero' marks/ABSENT, and the same would be displayed in his/her mark sheet.
6. Assignments submission for each course must be completed within the stipulated dates in the same semester of an academic year as communicated by the University. The university will not permit resubmission/late submission of assignment under any circumstances.

(B) End Examination (EE)

The End Examination will be of 70 marks for 4 credit courses and of 35 marks for 2 credit courses. The university will conduct end examination as per the schedule declared in advance.

End Examination Question paper pattern

For 70 marks pattern	For 30 marks pattern
Q1. Long Answer (Any one of two questions) 10 Marks	Q1. Long Answer (Any one of two questions) 10 Marks
Q2. Long Answer (Any one of two questions) 10 Marks	Q2. Short answer questions (Any two out of three questions) 10 Marks
Q3. Long Answer (Any one of two questions) 10 Marks	Q3. Very Short answer questions (Any five out of six questions) 15 Marks
Q4. Short answer questions (Any five out of Six questions) 25 Marks	
Q5. Very Short answer questions (Any five out of six questions) 15 Marks	

Practical work Evaluation

Credits	CA		EE		Total	
	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks
2	10	25	10	25	20	50
4	20	50	20	50	40	100
6	30	75	30	75	60	150

For practical CA a learner needs to prepare workbook/Journal and need to attempt internal Viva -Voce Examination at their respective LSC.

1. If learner fails to complete practical work then she/he will be allowed to do it with next batch.

2. For practical papers of credits 2 and 4 two hours practical is permitted. One batch can contain 18 to 20 learners.

Detailed evaluation structure of OJT, Field project, Project: will have CA and EE weightage of 50:50.

Credits	CA		EE		Total	
	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks
2	10	25	10	25	20	50
4	20	50	20	50	40	100
6	30	75	30	75	60	150

Detailed evaluation structure of Field Project

Module	Unit	% of Distribution of Marks	CA
1	Basic structure of society, key definition of problem area, analysis of preliminary data	30	15
2	Classroom-work-correspondence, formats, interactions and liaising	10	05
3	Field work and data gathering	30	15
4	Analysis and reporting	20	10
5	Feed back to community	10	05
	Total	**100**	**50 Marks**

On Job Training evaluation structure:

Sr. No.	Component	Marks
1	Behavior, interest in assigned work, willingness to learn	10
2	Accept responsibility, cooperate with coworkers and supervisors, demonstrate organizational skills	10
3	Uses time, knowledge and expertise effectively, Analyzes problems effectively.	10
4	Demonstrates creativity, originality, any innovative contribution, professional ethics and accountability	10
5	Writes effectively, produces high quality work, skill proficiency	10
	Total	**50**

Learners Evaluation with Grade system:

1. **"Absolute Grading":** the marks are converted to grades based on pre-determined class intervals.

2. **"Letter Grade":** It is an index of the performance of learners in a said programme. Grades are denoted by letters O, A+, A, B+, B, C, P and F.

3. **"Grade Point":** It is a numerical weight allotted to each letter grade on a 10-point scale. Grade Point shall be "0 (Zero)" for Letter Grade "Ab" and "F".

   The marks scored by the examinee shall be converted into grade points by dividing the marks scored in the aggregate and dividing the resulting number by maximum marks, multiplying the result by ten, retaining the integer part (ignore the fractional part). Thus, if a person has secured 56 marks out of 100 marks in aggregate for a course, we get (56/100) x 10 which is 5.6. Ignoring the fraction, we get 5 as the grade point.

4. The UGC recommends a 10-point grading system with the following letter grades and points as given below:

Marks Obtained out of 100	**Grade Point**	**Semester GPA / Programme CGPA/ Semester/ Programme**	**% of Marks**	**Alpha-Sign/ Letter Grade Result**
90 - 100	10	9.00 – 10. 00	90.0 - 100	O (Outstanding)
80 – 89.99	9	8.00 - < 9.00	80.0 - < 90.0	A+ (Excellent)
70 – 79.99	8	7.00 - < 8.00	70.0 - < 80.0	A (Very Good)
60 – 69.99	7	6.00 - < 7.00	60.0 - < 70.0	B+ (Good)
55 – 59.99	6	5.50 - < 6.00	55.0 - < 60.0	B (Above Average)
50 – 54.99	5	5.00 - < 5.50	50.0 - < 55.0	C (Average)
40 – 49.99	4	4.00 - < 5.00	40.0 - < 50.0	P (Pass)
0 – 39.99	0	Below 4.00	**Below 40**	**F (Fail)**
		Ab (Absent)	**-**	**Absent**

5. **"Credit Point":** It is the product of grade point and number of credits for a course.

6. **"Semester Grade Point Average (SGPA)":** It is a measure of performance of work done in a semester. It is the ratio of sum of the product of the number of credits with the grade points scored by a learner in all courses taken by a learner and the sum of number of credits of all the courses undergone by a learner:

$$\text{SGPA } (S_i) = \frac{\sum C_i G_i}{\sum C_i}$$

It shall be expressed up to two decimal places.

7. **"Cumulative Grade Point Average (CGPA)":** It is a measure of overall cumulative performance of a learner over all semesters. The CGPA is the ratio of total credit points secured by a learner in various courses in all semesters and the sum of the total credits of all courses in all the semesters.

   The CGPA is also calculated in the same manner taking into account all the courses undergone by a learner over all the semesters of a programme.

$$CGPA = \frac{\sum C_i S_i}{\sum C_i}$$

8. Where, Siis the SGPA of the i th semester &Ci is the total number of credits in that semester. It shall be expressed up to two decimal places.

9. **"Transcript or Grade Card or Certificate":** Based on the grades earned, a grade certificate shall be issued to all the registered learners after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

A Learner must successfully complete first year, second year including project/ OJT/Field Project component in order to qualify for the award of the B.Sc Data Science degree.

15. Cyber Security

As per the directions of the University Grants Commission, Yashwantrao Chavan Maharashtra Open University has implemented a cyber security course for learners admitted to undergraduate and postgraduate degree programs from the academic year 2024-25. The learner must complete this non-credit audit course online within 03 years of their admission to a degree program. Only after passing the cyber security course learners will get their degree certificate.

The attached Appendix E provides detailed information in this regard.

16. Award of Degree

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

17. Contact Points at Learner Support Centre and YCMOU

Type of Difficulties / Problems	Contact Points
Difficulties in any course and planning of academic activities at the LSC	The Counselor / Coordinator at Learner Support Centre
Registration Related Matters	**Registration Head,** nondani@ycmou.digitaluniversity.ac Ph: (0253) 2230580, 2231715
Registration, Student Services and LSC Related Matters/Grievances	Director, Student Services Division **dir_ssd@ycmou.digitaluniversity.ac** Ph: (0253) 2231478
Examination related matters	Deputy Registrar, Examination Unit- 2 Ph: (0253) 2230058 /2231479 examcomp.ycmou@gmail.com
Examination related grievances	The Controller of Examination coe@ycmou.digitaluniversity.ac Ph: (0253 Ph: (0253) 2230058/ 2231479)
Academic matters/ LSC related problems	School of Computer Science Ph: (0253) 2230717 **scmcs@ycmou.digitaluniversity.ac**
Grievances related to Academic matters /LSC	Director, School of Computer Science dir_comp@ycmou.digitaluniversity.ac

18. Contact Details of the Regional Centres

Sr. No.	Name & Address of Region	District	Regional Director's Email-id Phone
1	**Amravati Region** YCMOU Regional Centre, V.M.V. To Valgoan Road, Post V.M.V., Amravati - 444 604	Akola, Amravati, Buldhana, Yawatmal, Washim	rd_amravati@ycmou.digitaluniversity.ac (0721) 2531445
2	**Chhatrapati Sambhaji Nagar Region** YCMOU Regional Centre, Survey No.41, Near Military Hostel, Nandanwan Colony, Chhavni, 431002	Chhatrapati Sambhaji Nagar, Beed, Jalna, Dharashiv	rd_aurangabad@ycmou.digitaluniversity.ac (0240) 2371066, 2371077
3	**Mumbai Region** YCMOU Regional Centre, Jagannath Shankarsheth M.N.C. Primary Marathi School, Frear bridge(South) Nana Chowk, Grant Road (W) Mumbai 400 007	Mumbai, Raigad, Thane, Palghar	rd_mumbai@ycmou.digitaluniversity.ac (022) 23874186, 23874183, 23874177
4	**Nagpur Region** YCMOU Regional Centre, Subhedar Hall, University Sports Area, Law College Campus, Ravinagar Chouk, Amravati Road, Nagpur-440001	Bhandara, Chandrapur, Gadchiroli, Nagpur, Wardha, Gondia	rd_nagpur@ycmou.digitaluniversity.ac (0712) 2553724, 2553725
5	**Nashik region** YCMOU Regional Centre, Old Municipal Corporation Building, New Pandit Colony, Nashik - 422 002	Ahilyanagar, Dhule, Jalgaon, Nashik, Nandurbar	rd_nashik@ycmou.digitaluniversity.ac (0253) 2317063
6	**Pune Region** YCMOU Regional Centre, Shahir Annabhau Sathe Prashala Gruha, School No. 5 (Boys), 654, Sadashiv Peth, Kumthekar Marg, Pune 411 030	Pune, Satara, Solapur	rd_pune@ycmou.digitaluniversity.ac (020) 24457914
7	**Kolhapur Region** YCMOU Regional Centre, Near Post Office Shivaji University Campus, Kolhapur 416 004	Kolhapur, Sangli, Ratnagiri, Sindhudurg	rd_kolhapur@ycmou.digitaluniversity.ac (0231) 2607022
8	**Nanded Region** YCMOU Regional Centre, SRT Marathwada University Area, Zari Road, Near Military Boy's Hostel, Nanded - 421 606	Latur, Nanded, Parbhani, Hingoli	rd_nanded@ycmou.digitaluniversity.ac (02462) 229940, 283038

Appendix A

Instructions for creating the Academic Bank of Credits –ID

As per the National Education Policy 2020, it is mandatory for the learner to create the Academic Bank of Credits-ID. The learner is required to fill up the information regarding his/her Certificates, Diploma and name of the Degree in the DigiLocker (ABC-NAD) or else it won't be possible to transfer the credits he/she will earn through other programmes. He/ She can register his/her Academic Bank of Credits-ID at the portal **https://www.abc.gov.in** or he/she can visit the universities website at www.ycmou.ac.in wherein he/she is supposed to click on the 'Student Zone' tab. Under the student Zone tab, he/she will find the 'Academic Bank of Credits' option. After clicking on the Academic Bank of Credits option, he/she will get information and PPTs of how he/she can create his/her Academic Bank of Credits-ID.

Appendix B

UGC approval for the University

UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002.

NO. F.5-15/89 (OPP-I) December, 1992

The Secretary
Govt. of Maharashtra
Higher and Technical
Education and Employment Deptt.
Mantralaya Annexe
Bombay- 400032.

Sub : Recognition of Yashwantrao Chavan Maharashtra Open University, *Nashik for Central assistance under Section 12-B of the UGC Act, 1956.*

Sir,

With reference to the correspondence resting with your letter No. MOU/ 63003 (241/92) UNI dated 11th November, 1992 on the above subject, I am to say that the University Grants Commission has agreed to declare the Yashwantrao Chavan Maharashtra Open University Nashik established under Maharashtra State Act No. XX of 1989, fit to receive Central assistance for all purposes including Institutional development in terms of the rules framed under Section 12-B of the UGC Act, 1956.

The receipt of the letter may please be acknowledged.

Yours faithfully,

Sd/xxx
(I J GUPTA)
JOINT SECRETARY

Copy to: -

1. The Vice – Chancellor, Yashwantrao Chavan Maharashtra Open University, Nashik-422005.
2. Secretary to the Govt. of India, Ministry of Human Resource Development (Deptt. of Education) New Delhi.
3. The Registrar, Indira Gandhi National Open University, Maidan Garhi, New Delhi- 110068.
4. The Secretary, Association of Indian Universities, 16, Kotla Marg, New Delhi- 110002.
5. *Desk Officer (Meeting) / S.O.FD-III/S.O.SU-II/S.S.O.-I, Star, U.G.C. New Delhi.*
6. All Officers /Sections, UGC New Delhi.

Sd/-
(D. D. Mehta)
SECTION OFFICER

Appendix C

https://www.ugc.gov.in/pdfnews/5729348_Guidelines-for-pursuing-two-academic-programmes-simultaneously.pdf

ज्ञान-विज्ञान विमुक्तये

प्रो. रजनीश जैन
सचिव
Prof. Rajnish Jain
Secretary

सत्यमेव जयते

विश्वविद्यालय अनुदान आयोग
University Grants Commission
(शिक्षा मंत्रालय, भारत सरकार)
(Ministry of Education, Govt. of India)
बहादुरशाह जफ़र मार्ग, नई दिल्ली-110002
Bahadur Shah Zafar Marg, New Delhi-110002
Ph.: 011-23236288/23239337
Fax : 011-2323 8858
E-mail : secy.ugc@nic.in

D.O.No.1-6/2007 (CPP-II)(New) **13th April, 2022**

Respected Madam/ Sir,

The National Education Policy - NEP 2020 states that pedagogy must evolve to make education more experiential, holistic, integrated, inquiry-driven, discovery-oriented, learner-centred, discussion-based, flexible, and, of course, enjoyable. The policy envisions imaginative and flexible curricular structures to enable creative combinations of disciplines for study, that would offer multiple entry and exit points, thus, removing currently prevalent rigid boundaries and creating new possibilities for life-long learning and centrally involve critical and interdisciplinary thinking.

With the rapid increase in demand for higher education and limited availability of seats in regular stream, several Higher Education Institutions (HEIs) have started a number of programmes in Open and Distance Learning (ODL) mode to meet the aspirations of students. It has also led to the emergence of online education programmes which a student can pursue within the comforts of her / his home. The issue of allowing the students to pursue two academic programmes simultaneously has been examined by the Commission keeping in view the provisions envisaged in the National Education Policy - NEP 2020 which emphasizes the need to facilitate multiple pathways to learning involving both formal and non-formal education modes.

In view of above, UGC has framed the guidelines for pursuing two academic programmes simultaneously which are attached herewith.

All the universities and their affiliated colleges/institutions are requested to implement these guidelines for the benefit of the students.

With kind regards,

Yours sincerely,

(Rajnish Jain)

To
The Vice-Chancellors of all Universities
The Principals of all Colleges/Institutes

Guidelines for Pursuing Two Academic Programmes Simultaneously



University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

April, 2022

Guidelines for Pursuing Two Academic Programmes Simultaneously

Background

The National Education Policy - NEP 2020 states that pedagogy must evolve to make education more experiential, holistic, integrated, inquiry-driven, discovery-oriented, learner-centred, discussion-based, flexible, and, of course, enjoyable. The policy envisions imaginative and flexible curricular structures to enable creative combinations of disciplines for study, that would offer multiple entry and exit points, thus, removing currently prevalent rigid boundaries and creating new possibilities for life-long learning and centrally involve critical and interdisciplinary thinking.

With the rapid increase in demand for higher education and limited availability of seats in regular stream, several Higher Education Institutions (HEIs) have started a number of programmes in Open and Distance Learning (ODL) mode to meet the aspirations of students. It has also led to the emergence of online education programmes which a student can pursue within the comforts of her / his home. The issue of allowing the students to pursue two academic programmes simultaneously has been examined by the Commission keeping in view the proposals envisaged in the National Education Policy - NEP 2020 which emphasizes the need to facilitate multiple pathways to learning involving both formal and non-formal education modes.

In view of above, UGC has framed the following Guidelines.

Objectives

To allow the students to pursue two academic programmes simultaneously keeping in view the following objectives envisaged in NEP 2020:

- recognizing, identifying, and fostering the unique capabilities of each student, by sensitizing teachers as well as parents to promote each student's holistic development in both academic and non-academic spheres;
- no hard separations between arts and sciences, between curricular and extra-curricular activities, between vocational and academic streams, etc. in order to eliminate harmful hierarchies among, and silos between different areas of learning;

Appendix D

मुक्त विद्यापीठाच्या पदव्यांना समकक्षता व शासन मान्यता

१) **अन्य विद्यापीठांच्या पदवीशी समकक्षता**

मा. शिक्षण संचालक (उच्च शिक्षण) महाराष्ट्र राज्य यांच्या पत्र क्र. समक (उ. शि.)/१०९४/३२८६१/मवि-१, दि. ३० ऑक्टोबर १९९५ च्या पत्रान्वये 'केंद्रीय किंवा राज्य विधिमंडळाने अधिनियमाद्वारे भारतातील विद्यापीठाने दिलेली पदवी/पदविका आणि संसदेने अधिनियमाद्वारे इतर शैक्षणिक संस्था प्रस्तावित केलेल्या आहेत किंवा विद्यापीठ अनुदान आयोग अधिनियम (१९५६) मधील कलम क्र. ३ अन्वये मानीव विद्यापीठे घोषित केली आहेत अशांच्या बाबतीत पदवी किंवा पदविका मान्यता देण्याबाबतचे औपचारिक आदेश विद्यापीठाने काढण्याची आवश्यकता नाही'.

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ हे महाराष्ट्र राज्याच्या विधिमंडळाने अधिनियमाद्वारे (कायदा क्र. २०/१९८९) स्थापन केलेले विद्यापीठ असून त्यास विद्यापीठ अनुदान आयोगाचीही मान्यता आहे. **त्यामुळे या विद्यापीठाची पदवी इतर विद्यापीठांच्या पदवीशी समकक्ष आहे.**

२) **विद्यापीठ अनुदान आयोगाची मान्यता**

विद्यापीठ अनुदान आयोग, नवी दिल्ली यांनी त्यांचे पत्र क्र. F/S-15/89 (CPP-I) दि. ८ डिसेंबर १९९२ नुसार विद्यापीठ अनुदान आयोगाच्या १९५६ च्या कायद्यातील कलम १२-बी अन्वये यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठास मान्यता दिली आहे.

३) **महाराष्ट्र लोकसेवा आयोगाची मान्यता**

उपसचिव व परीक्षा नियंत्रक, महाराष्ट्र लोकसेवा आयोग, मुंबई यांच्या पत्र क्र. १४७७ (१७/१९९४/कक्ष) **दि. १७ फेब्रुवारी १९९४ च्या पत्रातील मान्यतेसंबंधीचा मजकूर – 'यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ हे संविधिमान्य (Statutory) असल्यामुळे आपल्या विद्यापीठाच्या पदवीधर विद्यार्थ्यांकडून आलेले अर्ज देखील इतर मान्यताप्राप्त विद्यापीठांच्या पदवीधर उमेदवारांकडून आलेल्या अर्जांप्रमाणेच आयोगाकडून विचारात घेतले जातील'**

मुक्त विद्यापीठाच्या पदवी/पदविकांना महाराष्ट्र शासन मान्यता

विद्यापीठ अनुदान आयोगाने मान्यता दिलेली विद्यापीठे

राज्य सेवेतील पदांसाठी पदवी/पदविकास मान्यता

महाराष्ट्र शासन

सामान्य प्रशासन विभाग

शासन निर्णय : क्रमांक आरजीडी-१३९४/प्र.क्र. २१/९४/१३,मंत्रालय, मुंबई ४०००३२, दिनांक ८ मार्च १९९५

वाचा : (१) सामान्य प्रशासन विभाग, शासन निर्णय क्रमांक आरजीडी-१०६१/१८९६७/११४ - जे दिनांक २१ ऑगस्ट १९६९

शासन निर्णय : महाराष्ट्र लोक सेवा आयोगाशी विचार विनिमय करून उपरोक्त दिनांक २१ ऑगस्ट १९६९ च्या आदेशाद्वारे असा निर्णय घेण्यात आला होता की, केंद्र अथवा राज्य विधिमंडळाच्या अधिनियमाद्वारे स्थापित झालेली विद्यापीठे, संसदेच्या अधिनियमाद्वारे स्थापन झालेल्या इतर शैक्षणिक संस्था, किंवा विद्यापीठ अनुदान आयोग अधिनियम, १९५६ च्या अंतर्गत भाग ३ अन्वये जाहीर झालेली मानवी विद्यापीठे यांनी प्रदान केलेल्या पदव्या / पदविका तसेच भारतीय वैद्यकीय मंडळ अधिनियम, १९५६ च्या परिशिष्टांमध्ये अंतर्भूत केलेल्या वैद्यकीय व संलग्न विषयामधील पदव्या यांना शासकीय महाविद्यालयातील अध्यापकीय पदे वगळता, **राज्यातील सेवा व पदांवरील भरतीसाठी आपोआप मान्यता प्राप्त झाली असल्याचे समजण्यात यावे.**

(२) सदर आदेशासोबत विद्यापीठ अनुदान आयोगाने मान्यता दिलेल्या वैधानिक विद्यापीठे व संस्थांची यादी जोडण्यात आली होती. आयोग मान्यताप्राप्त विद्यापीठे व संस्था यांची अद्ययावत यादी आता या आदेशासोबत जोडण्यात आली आहे. शासन निर्णय, सामान्य प्रशासन विभाग, क्रमांक आरजीडी - १०६१/१८९६७/९१४/जे दिनांक २१ ऑगस्ट १९६९ मध्ये नमूद केलेल्या आणि वर परिच्छेद १ मध्ये उद्धृत केलेल्या हेतूसाठी सदर सर्व विद्यापीठे/संस्था यांनी प्रदान केलेल्या पदवी/पदविकांना आपोआप मान्यता देण्यात आल्याचे समजण्यात यावे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने

दा. र. राणे

अवर सचिव, महाराष्ट्र शासन

प्रति,

(१) राज्यपालांचे सचिव
(२) मुख्य मंत्र्यांचे सचिव
(३) सचिव, महाराष्ट्र लोकसेवा आयोग, मुंबई
(४) महालेखापाल, महाराष्ट्र-१, मुंबई
(५) महालेखापाल, महाराष्ट्र -२, मुंबई
(६) निवासी लेखा परीक्षा अधिकारी, मुंबई
(७) अभिदान व लेखा अधिकारी, मुंबई
(८) प्रबंधक, उच्च न्यायालय (मूळ न्याय शाखा), मुंबई
(९) प्रबंधक, उच्च न्यायालय (अपील शाखा), मुंबई
(१०) प्रबंधक, लोक आयुक्त व उप लोक आयुक्त यांचे कार्यालय, मुंबई
(११) सर्व मंत्रालयीन शिक्षण
(१२) मंत्रालयीन विभागांच्या नियंत्रणांच्या नियंत्रणाखालील सर्व विभाग प्रमुख व कार्यालय प्रमुख
(१३) अवर सचिव, भारत सरकार, शिक्षण मंत्रालय, नवी दिल्ली
(१४) निवड नस्ती

वाचा : महाराष्ट्र शासनाच्या उपरोक्त शासन निर्णय क्रमांक आर.जी.डी. १३९४/प्र.क्र.२१/९४/१३ मंत्रालय, मुंबई. दिनांक ८ मार्च १९९५ च्या सोबत जोडलेल्या यादीमध्ये यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ, नाशिक यांची अनुक्रमांक १४६ वर नोंद करण्यात आलेली आहे.

Appendix E: Cyber Security course (Mandatory Audit Course)

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ, नाशिक
नॅक मानांकित 'अ' श्रेणी
ज्ञानगंगोत्री, गंगापूर धरणजवळ, गोवर्धन नाशिक – ४२२ २२२ (महाराष्ट्र) भारत

ज्ञानगंगा घरोघरी

Yashwantrao Chavan Maharashtra Open University, Nashik
NAAC Accredited 'A' Grade
Dnyangangotri, Near Gangapur Dam, Govardhan Nashik - 422 222 (Maharashtra) India

संकेतस्थळ Website : •www.ycmou.ac.in •https://ycmou.digitaluniversity.ac
ई-मेल E-mail : dir_sol@ycmou.ac.in दूरध्वनी Telephone : (0253) 2230191

ऑनलाईन शिक्षण विद्याशाखा / School of Online Learning

SOOL/2024/386 Date: 18/12/2024

सायबर सुरक्षा अभ्यासक्रम (अनिवार्य ऑडीट कोर्स)

विद्यापीठ अनुदान आयोग (UGC) संदर्भ D.O.No.F.1-42/2022(e.Gov) 17th October, 2022 (परिशिष्ट पहा) च्या निर्देशानुसार तसेच २८/०५/२४ रोजी घेण्यात आलेल्या विद्वत परिषदेतील विषय ६३.३.१५.३ नुसार शैक्षणिक वर्ष २०२४-२५ पासून पदवी आणि पदव्युत्तर पदवी प्राप्त करण्यसाठी यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाने सायबर सुरक्षा अभ्यासक्रम लागू केला आहे. या अभ्यासक्रमाची अंमलबजावणी शैक्षणिक वर्ष २०२४- २५ पासून केलेली आहे.

संरचना : सायबर सुरक्षा अभ्यासक्रम हा एक ऑडीट कोर्स असून त्यासाठी श्रेयांक नसले तरी तो शैक्षणिक वर्ष २०२४- २५ पासून पदवी व पदव्युत्तर स्तरावरील शिक्षणक्रमांना अनिवार्य करण्यात आला आहे. हा अभ्यासक्रम मराठी आणि इंग्रजी अशा दोन्ही भाषांमध्ये ऑनलाइन पद्धतीने उपलब्ध आहे. मूळ शिक्षणक्रम पूर्ण करण्यापूर्वी सायबर सुरक्षा अभ्यासक्रम उत्तीर्ण करणे आवश्यक आहे. तो उत्तीर्ण केल्यानंतर त्याचे स्वतंत्र प्रमाणपत्र देण्यात येईल. **सायबर सुरक्षा अभ्यासक्रमाची परीक्षा उत्तीर्ण झाल्यानंतरच विद्यार्थ्यांना त्यांच्या मुळ शिक्षणक्रमाचे प्रमाणपत्र मिळेल. (प्रमाणपत्र व पदविका शिक्षणक्रमाना हा अभ्यासक्रम लागू नाही.)**

कालावधी : हा अभ्यासक्रम पूर्ण करण्याचा कालावधी पदवी स्तरावरील शिक्षणक्रमांना ०३ वर्ष (नियुक्त कालावधी) तर पदव्युत्तर स्तरावरील शिक्षणक्रमासाठी ०२ वर्ष (नियुक्त कालावधी) आहे, तसेच ज्या शिक्षणक्रमाचा कालावधी (ग्रंथालय व महितीशास्त्र पदवी व पदव्युत्तर पदवी शिक्षणक्रम (B.Lib. & I. Sc. & M.Lib. & I.Sc.) एक वर्षाचा असेल त्यांना हा अभ्यासक्रम ०१ वर्षात पूर्ण करावा लागेल तसेच B.C.A सारख्या शिक्षणक्रमास direct दुसऱ्या वर्ष्यास प्रवेश घेणाऱ्या विद्यार्थ्यांना ०२ वर्षात पूर्ण करावा लागेल.

शुल्क : सायबर सुरक्षा अभ्यासक्रमाचे शुल्क रु. ५०० आहे. एकदा शुल्क भरल्यानंतर विद्यार्थ्यांकडून सदर अभ्यासक्रम उत्तीर्ण होईपर्यंत त्याच्याकडून कुठलेही शुल्क घेतले जाणार नाही. **(विद्यार्थ्याने प्रवेश केलेल्या मूळ शिक्षणक्रमाच्या व्यतीरिक्त हे शुल्क आहे.)**

नोंदणी : सदर अभ्यासक्रमाला नोंदणी करण्यासाठी विद्यार्थ्यांनी प्रवेश खाली दिलेल्या लिंकचा उपयोग करून ॲप डाउनलोड करावा व आवश्यक ती माहिती भरून अभ्यासक्रमाचे शुल्क भरावे.

(ॲप डाउनलोड करण्यासाठी विद्यापीठाने खाली दिलेल्या लिंकचा वापर करावा.)

Sr.No.	Mobile O.S	Link
1	Android	https://play.google.com/store/apps/details?id=org.mkcl.ycmoudu
2	IOS	https://apps.apple.com/in/app/ycmou-student/id6475083272

अध्ययन पद्धती : सायबर सुरक्षा अभ्यासक्रम ऑनलाईन पद्धतीचा MOOC (Massive Open Online Course) Yashex या ऑनलाइन प्लॅटफॉर्म (online platform) (https://yashex.mkcl.org/#/) वर उपलब्ध करून देण्यात आलेला आहे. सर्व अध्ययन साहित्य, व्हिडिओ व्याख्याने आणि मूल्यांकन, ऑनलाइन उपलब्ध आहे. हा स्व-अभ्यासक्रम आहे, त्यामुळे विद्यार्थी आपल्या सोयीप्रमाणे शिकू शकतात. त्यासाठी विद्यार्थ्यांना हा अभ्यासक्रम पूर्ण करण्यासाठी वरील दिलेल्या YCMOU Student App मोबाईल application वर नोंदणी केल्यानंतर लॉगीन आयडी (Login ID) व पासवर्ड (Password) विद्यार्थ्यांना इमेल (Email) व लघु संदेश (SMS) द्वारा पाठविण्यात येईल. विद्यार्थ्यांने सदर अभ्यासक्रम ऑनलाईन पद्धतीने पूर्ण करावा.

मूल्यमापन : सायबर सुरक्षा अभ्यासक्रमाची परीक्षा ऑनलाईन पद्धतीने Yashex या ऑनलाईन प्लॅटफॉर्म द्वारा अभ्यासक्रम पूर्ण झाल्यानंतर देता येईल.

परीक्षेचे स्वरूप : परीक्षा ऑनलाईन -MCQ (Multiple Choice Question) स्वरूपात असेल.

प्रो. माधव पळशीकर
संचालक, संगणकशास्त्र विद्याशाखा

इमरटस प्रोफेसर कविता साळुंके
संचालक, स्कूल ऑफ ऑनलाईन लर्निंग

ज्ञान-विज्ञान विमुक्तये

प्रो. रजनीश जैन
सचिव
Prof. Rajnish Jain
Secretary

सत्यमेव जयते

विश्वविद्यालय अनुदान आयोग
University Grants Commission
(शिक्षा मंत्रालय, भारत सरकार)
(Ministry of Education, Govt. of India)
बहादुरशाह जफ़र मार्ग, नई दिल्ली-110002
Bahadur Shah Zafar Marg, New Delhi-110002
Ph.: 011-23236288/23239337
Fax : 011-2323 8858
E-mail : secy.ugc@nic.in

D.O.No.F.1-42/2022(e.Gov) **17th October, 2022**

Subject: Regarding the implementation of Syllabus of Cyber Security Course at Undergraduate and Post Graduate level.

Respected Madam/Sir,

On the occasion of Cyber Jaagrookta Diwas, 06th October, 2022, the University Grants Commission (UGC) launched the Syllabus of Cyber Security Course at Undergraduate and Post Graduate levels **(https://www.ugc.ac.in/e-book/Cyber_Security/mobile/index.html).**

The syllabus aims to create more aware, responsive and responsible digital citizens, thereby contributing effectively to an overall healthy cyber security posture and ecosystem.

In view of the importance of cyber security and for propagating cyber hygiene amongst HEIs, you are requested to take necessary steps for implementation of the Syllabus of Cyber Security Course at Undergraduate and Post Graduate level in all the streams of your esteemed University and also in the affiliated/constituent Colleges.

With kind regards.

Yours sincerely,

(Rajnish Jain)

To

- **The Vice-Chancellors of all Universities**
- **The Principals of all Colleges**

Appendix F
List of Open Electives (OE)

- Learners can choose the OE of their choice from the list provided.
- In Semester I and Semester II s/he hast to select two OEs in each semester.
- In Semester III and Semester IV s/he has to select one OE in each semester.

I

Semester I						
Course Code	**Course Name**	**Theory/ Practical /Project**	**Contact (HRS)**	**Credit Points**	**Assessment Type**	**Passing Marks**
PHYE101	Physics of Daily Life	Theory	30	2	CA(6/15) + EE(14/35)	20/50
PHYE102	Materials in Daily Life	Theory	30	2	CA(6/15) + EE(14/35)	20/50
CHEE101	Chemistry in Everyday Life	Theory	30	2	CA(6/15) + EE(14/35)	20/50
CHEE102	Industrial Safety Management	Theory	30	2	CA(6/15) + EE(14/35)	20/50
MATE101	Mathematics for Competitive Exam	Theory	30	2	CA(6/15) + EE(14/35)	20/50
MATE102	Logical Reasoning and Data Interpretation	Theory	30	2	CA(6/15) + EE(14/35)	20/50
BOTE101	Bio fertilizers	Theory	30	2	CA(6/15) + EE(14/35)	20/50
BOTE102	Mushroom Culture Technology	Theory	30	2	CA(6/15) + EE(14/35)	20/50
ZOOE101	Vermicomposting Management	Theory	30	2	CA(6/15) + EE(14/35)	20/50
ZOOE102	Sericulture Management	Theory	30	2	CA(6/15) + EE(14/35)	20/50
EVSE101	Biodiversity Of India	Theory	30	2	CA(6/15) + EE(14/35)	20/50
EVSE102	Futuristic Approach For Smart City	Theory	30	2	CA(6/15) + EE(14/35)	20/50

Semester II						
Course Code	**Course Name**	**Theory/ Practical /Project**	**Contact (HRS)**	**Credit Points**	**Assessment Type**	**Passing Marks**
PHYE103	Renewable Energy for Daily Life	Theory	30	2	CA(6/15) + EE(14/35)	20/50
PHYE104	Energy Audit	Theory	30	2	CA(6/15) + EE(14/35)	20/50
CHEE103	Pesticides Chemistry	Theory	30	2	CA(6/15) + EE(14/35)	20/50
CHEE104	Food Safety Adulteration & Detection	Theory	30	2	CA(6/15) + EE(14/35)	20/50
MATE103	Mathematics for Quantitative Aptitude	Theory	30	2	CA(6/15) + EE(14/35)	20/50
MATE104	Statistics for Research	Theory	30	2	CA(6/15) + EE(14/35)	20/50
BOTE103	Nursery and Gardening	Theory	30	2	CA(6/15) +	20/50

					EE(14/35)	
BOTE104	Floriculture	Theory	30	2	CA(6/15) + EE(14/35)	20/50
ZOOE103	Poultry Management	Theory	30	2	CA(6/15) + EE(14/35)	20/50
ZOOE104	Goat Farming	Theory	30	2	CA(6/15) + EE(14/35)	20/50
EVSE103	Environmental Economics	Theory	30	2	CA(6/15) + EE(14/35)	20/50
EVSE104	Ecotourism	Theory	30	2	CA(6/15) + EE(14/35)	20/50

Semester III						
Course Code	**Course Name**	**Theory/ Practical /Project**	**Contact (HRS)**	**Credit Points**	**Assessment Type**	**Passing Marks**
PHYE201	Physics of Sound &Music	Theory	30	2	CA(6/15) + EE(14/35)	20/50
CHEE201	Fuel Chemistry	Theory	30	2	CA(6/15) + EE(14/35)	20/50
MATE201	Mathematics for Finance	Theory	30	2	CA(6/15) + EE(14/35)	20/50
BOTE201	Herbal Drug Technology	Theory	30	2	CA(6/15) + EE(14/35)	20/50
ZOOE201	Dairy Production & Management	Theory	30	2	CA(6/15) + EE(14/35)	20/50
EVSE201	Sustainable Development Goal &Society	Theory	30	2	CA(6/15) + EE(14/35)	20/50

Semester IV						
Course Code	**Course Name**	**Theory/ Practical /Project**	**Contact (HRS)**	**Credit Points**	**Assessment Type**	**Passing Marks**
PHYE202	Physics in Sports	Theory	30	2	CA(6/15) + EE(14/35)	20/50
CHEE202	Chemistry of Cosmetics	Theory	30	2	CA(6/15) + EE(14/35)	20/50
MATE202	Basics of Actuarial Science	Theory	30	2	CA(6/15) + EE(14/35)	20/50
BOTE202	Sustainable Agriculture	Theory	30	2	CA(6/15) + EE(14/35)	20/50
ZOOE202	Nutrition, Health and Hygiene	Theory	30	2	CA(6/15) + EE(14/35)	20/50
EVSE202	Environmental Law	Theory	30	2	CA(6/15) + EE(14/35)	20/50
CMPE007	Work Life Balance	Theory	30	2	CA(6/15) + EE(14/35)	20/50

Appendix G
List of Co-Curricular Course (CC)

- Learners can choose the CC of their choice from the list provided.
- The Learner must choose one CC per semester from Semester I to Semester IV.

Semester I						
Course Code	**Course Name**	**Theory/ Practical /Project**	**Contact (HRS)**	**Credit Points**	**Assessment Type**	**Passing Marks**
CCRX101	Health & Wellness-I	Practical	15	2	CA(20/50)	20/50
CCRX102	Yoga education-I	Practical	15	2	CA(20/50)	20/50
CCRX103	Sports & fitness-I	Practical	15	2	CA(20/50)	20/50
CCRX104	Cultural activities-I	Practical	15	2	CA(20/50)	20/50
CCRX105	NSS-I	Practical	15	2	CA(20/50)	20/50
CCRX106	Fine/applied/visual/performing arts-I	Practical	15	2	CA(20/50)	20/50

Semester II						
Course Code	**Course Name**	**Theory/ Practical /Project**	**Contact (HRS)**	**Credit Points**	**Assessment Type**	**Passing Marks**
CCRX107	Health & Wellness-II	Practical	15	2	CA(20/50)	20/50
CCRX108	Yoga education-II	Practical	15	2	CA(20/50)	20/50
CCRX109	Sports & fitness-II	Practical	15	2	CA(20/50)	20/50
CCRX110	Cultural activities-II	Practical	15	2	CA(20/50)	20/50
CCRX111	NSS-II	Practical	15	2	CA(20/50)	20/50
CCRX112	Fine/applied/visual/performing arts-II	Practical	15	2	CA(20/50)	20/50

Semester III						
Course Code	**Course Name**	**Theory/ Practical /Project**	**Contact (HRS)**	**Credit Points**	**Assessment Type**	**Passing Marks**
CCRX201	Health & Wellness-III	Practical	15	2	CA(20/50)	20/50
CCRX202	Yoga education-III	Practical	15	2	CA(20/50)	20/50
CCRX203	Sports & fitness-III	Practical	15	2	CA(20/50)	20/50
CCRX204	Cultural activities-III	Practical	15	2	CA(20/50)	20/50
CCRX205	NSS-III	Practical	15	2	CA(20/50)	20/50
CCRX206	Fine/applied/visual/performing arts-III	Practical	15	2	CA(20/50)	20/50

Semester IV						
Course Code	**Course Name**	**Theory/ Practical /Project**	**Contact (HRS)**	**Credit Points**	**Assessment Type**	**Passing Marks**
CCRX207	Health & Wellness-IV	Practical	15	2	CA(20/50)	20/50

CCRX208	Yoga education-IV	Practical	15	2	CA(20/50)	20/50
CCRX209	Sports & fitness-IV	Practical	15	2	CA(20/50)	20/50
CCRX210	Cultural activities-IV	Practical	15	2	CA(20/50)	20/50
CCRX211	NSS-IV	Practical	15	2	CA(20/50)	20/50
CCRX212	Fine/applied/visual/performing arts-IV	Practical	15	2	CA(20/50)	20/50

"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

Yashwantrao Chavan Maharashtra Open University
[Established by Government of Maharashtra]
Dnyangangotri, Near Gangapur Dam, Nashik - 422 222
Telephone: [0253] 2231714, 2231715, and 2230717
E-Mail: scmcs@ycmou.digitaluniversity.ac
Website: http://ycmou.digitaluniversity.ac
http://www.ycmou.ac.in