Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research, Aurangabad

Dr. Rafiq Zakaria Campus

Academic Calender

Academic Year 2021-22

Date	Particulars
30-08-2021	First term begins (College re-opening)
30-08-2021	Meeting of Admission Committee
30-08-2021	Admissions Commence
15-09-2021	Meeting for workload distribution & time table framing
1-10-2021	Commencement of classes (Online/Offline)
1-10-2021 to 9-10-2021	Conduct of LLE
11-10-2021 to 31-12-2021	Conduct of CIE (weekly)
	Conduct of Guest Lectures
	Conduct of co-curricular & extracurricular activities
	NSS activities
	Remedial classes for Sem II
	Internal Exam
	Winter vacations
1-1-2022 to 31-1-2022	Preparatory break & University Exams
1-2-2022	Second term begins
1-2-2022	Meeting for workload distribution & time table framing
2-2-2022	Commencement of classes (Online/Offline)
10-2-2022 to 19-2-2022	Conduct of LLE
20-2-2022 to 31-5-2022	Conduct of CIE (Weekly)
	Conduct of Guest Lectures
	Conduct of co-curricular & extracurricular activities
	NSS activities
	Remedial or advance learner classes for Sem II, III & IV
1-6-2022 to 30-6-2022	Internal Exam
	Preparatory break & University Exams

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Director
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Dr. Rafiq Zakaria Campus
Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research, Rauza Baugh, Aurangabad-431001

Department of Mathematics

Date: 30/8/2022

NOTICE

All the students of M.Sc. Mathematics First Semester are hereby informed that their Learner Learning level Evaluation (LLE) examination will be held by the Department dated on 2nd November 2022. All should present.

Naziya
HOD

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Dr. Rafiq Zakaria Campus
Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research, Rauza Baugh, Aurangabad-431001

Department of Mathematics

Date: 1/4/2022

NOTICE

All the students of M.Sc. Mathematics Second & Fourth Semester are hereby informed that their First CIE examination will be held by the Department as per following schedule as under.

Second Semester:

Sr.No.	Date	Paper No.	Name of the Paper	Time
1	04/04/2022	MAT-411	Linear Algebra	10:30 to 11:30
		MAT-412	Real Analysis-II	12:00 to 1:00
2	05/04/2022	MAT-413	Topology-II	10:30 to 11:30
		MAT-414	Complex Analysis-II	12:00 to 1:00
3	06/04/2022	MAT-432	Advanced Discrete Mathematics-II	10:30 to 11:30

Fourth Semester:

Sr.No.	Date	Paper No.	Name of the Paper	Time
1	04/04/2022	MAT-511	Linear Integral Equation	10:30 to 11:30
		MAT-512	Mechanics	12:00 to 1:00
2	05/04/2022	MAT-534	Fuzzy Mathematics	10:30 to 11:30
		MAT-536	Operation Research	12:00 to 1:00
3	06/04/2022	MAT-531	Mat lab Programming	10:30 to 11:30

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Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research, Rauza Baugh, Aurangabad-431001

Department of Mathematics

Date: 02/05/2022

NOTICE

All the students of M.Sc. Mathematics Second & Fourth Semester are hereby informed that their Second CIE examination will be held by the Department as per following schedule as under.

Second Semester:

Sr. No.	Date	Paper No.	Name of the Paper	Time
1	05/05/2022	MAT-411	Linear Algebra	10:30 to 11:30
		MAT-412	Real Analysis-II	12:00 to 1:00
2	06/05/2022	MAT-413	Topology-II	10:30 to 11:30
		MAT-414	Complex Analysis-II	12:00 to 1:00
3	07/05/2022	MAT-432	Advanced Discrete Mathematics-II	10:30 to 11:30

Fourth Semester:

Sr.No.	Date	Paper No.	Name of the Paper	Time
1	05/05/2022	MAT-511	Linear Integral Equation	10:30 to 11:30
		MAT-512	Mechanics	12:00 to 1:00
2	06/05/2022	MAT-531	Mat lab Programming	10:30 to 11:30
		MAT-534	Fuzzy Mathematics	12:00 to 1:00
3	07/05/2022	MAT-536	Operation Research	10:30 to 11:30

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Dr.Rafiq Zakaria Centre for Higher Learning & Advanced Research Aurangabad.

Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research
M.Sc Mathematics I year
2020-21
Semester -01
CIE Test Result No. 01

Roll No.	Name of the student	MAT-401 ADVANCED ABSTRACT ALGEBRA	MAT-402 REAL ANALYSIS	MAT-403 TOPOLOGY	MAT-404 COMPLEX ANALYSIS	MAT-422 ADVANCED DISCRETE MATHEMATICS
HL01	KHATIB SAMREEN ABDUL HAFIZ	09	18	10	10	15
HL02	SHAIKH ABDUL MOIZ ABDUL MANNAN	13	17	16	14	16
HL03	MATEEN SHAH MAZHAR SHAH (admission cancelled) 25.01.2021	17	18	19	19	20
HL04	SHAIKH SARA NIYAZ SHAIKH MASIHUDDIN	14	11	13	15	15
HL05	SABA BANO MOHD ASHRAF	13	12	13	15	15
HL06	SHAIKH TAYYABA AFEERA SHAIKH MOHAMMAD RIYAZ	15	18	19	15	18
HL07	TAHOORA SADAF	16	18	16	19	20
HL08	AYESHA SIDDIQUI	20	18	18	20	19
HL09	QURESHI SHADAB TABINDA MUBASSIR AHMED QURESHI	15	19	16	16	18
HL10	FAROOQUI NEHA TABBASSUM RAHIMOODIN	A	A	A	A	A
HL11	SHAIKH AMAN SHAIKH QAISER	15	14	16	17	18
HL12	JUWAIRIA NAUSHIN MOHAMMED MOHD SAADUDDIN	20	18	16	18	19
HL13	NASREEN BANO MOHAMMED NASIR	16	18	16	17	17
HL14	FARHEEN MOHAMMAD SHUKUR	09	10	11	11	10
HL15	AKRAM SHAH BABU SHAH	14	16	18	19	14
HL16	SHAIKH RAHILA NASEEM MOHD JAMALUDDIN	15	16	14	15	17
HL17	SHAIKH RASHED SAYED MUSTAFA HUSSAIN	15	18	16	18	18
HL18	SAYYEDA LAMA ZAIHRA SHAKIR RAZA	12	15	16	15	11
HL19	LAGHULKAR SHWETA GAUTAM	15	18	16	14	14

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Incharge Director
Dr.Rafiq Zakaria Centre for Higher Learning & Advanced Research
Aurangabad.

Naziya
Signature of H.O.D

Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research

M.Sc Mathematics I year

2020-21

Semester -01

CIE Test Result No. 02

Roll No.	Name of the student	MAT-401 ADVANCED ABSTRACT ALGEBRA	MAT-402 REAL ANALYSIS	MAT-403 TOPOLOGY	MAT-404 COMPLEX ANALYSIS	MAT-422 ADVANCED DISCRETE MATHEMATICS
HL01	KHATIB SAMREEN ABDUL HAFIZ	15	17	17	19	19
HL02	SHAIKH ABDUL MOIZ ABDUL MANNAN	A	A	A	A	A
HL03	MATEEN SHAH MAZHAR SHAH (admission cancelled) 25.01.2021	15	14	16	17	18
HL04	SHAIKH SARA NIYAZ SHAIKH MASIHUDDIN	16	17	18	17	19
HL05	SABA BANO MOHD ASHRAF	15	11	15	15	14
HL06	SHAIKH TAYYABA AFEERA SHAIKH MOHAMMAD RIYAZ	15	18	19	18	19
HL07	TAHOORA SADAF	20	19	18	19	18
HL08	AYESHA SIDDIQUI	10	11	11	12	12
HL09	QURESHI SHADAB TABINDA MUBASSIR AHMED QURESHI	15	17	18	14	15
HL10	FAROOQUI NEHA TABBASSUM RAHIMOODIN	20	19	20	20	20
HL11	SHAIKH AMAN SHAIKH QAISER	15	15	08	12	15
HL12	JUWAIRIA NAUSHIN MOHAMMED MOHD SAADUDDIN	10	11	13	15	12
HL13	NASREEN BANO MOHAMMED NASIR	10	13	15	15	13
HL14	FARHEEN MOHAMMAD SHUKUR	11	14	17	17	16
HL15	AKRAM SHAH BABU SHAH	10	15	14	13	10
HL16	SHAIKH RAHILA NASEEM MOHD JAMALUDDIN	20	19	20	19	20
HL17	SHAIKH RASHED SAYED MUSTAFA HUSSAIN	15	19	16	16	18
HL18	SAYYEDA LAMA ZAIHRA SHAKIR RAZA	A	A	A	A	A
HL19	LAGHULKAR SHWETA GAUTAM	15	14	16	17	18

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Aurangabad.

Naziya
Signature of H.O.D

Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research

Dr. Rafiq Zakaria Campus, Dr. Rafiq Zakaria Marg, Aurangabad

P.G. Department of Computer Science

Time Table of IV Semester (2021-22) w.e.f. 14th March 2022

Day \ time		9:30-10:30	10.30-11:30	11:30-12:30	12:30-01:30	1:30-2:00	2:00-3:00	3:00-4:00	4:00-5:00	5:00-6:00
1	Monday	Pract. Seminar		Pract. Major Project		RECESS	CSC505	CSC435		
2	Tuesday	Pract. Major Project					CSC505	CSC435		
3	Wed' day	Pract. Major Project					CSC505	Pract. DM CSC556		
4	Thursday	Pract. Seminar					CSC505	Pract. DM CSC556		
5	Friday	Pract. Seminar		Pract. Major Project			Pract. Major Project			
6	Saturday	Pract. PR CSC555					Pract. Major Project			

CSC505	Pattern Recognition	A		
CSC435	Data Mining	N	N	Dr. Nazneen Akhter
CSC555	Practical Based on CSC505	A	A	Dr. Adiba Saher
CSC556	Practical Based on CSC435	N	Z	Mrs. Syed Zebanaaz
CSC557	Major Project	N, A, Z		
CSC558	Seminar	N, A, Z		

Dr. Arif Pathan
(Incharge Director)
Incharge Director
Dr.Rafiq Zakaria Centre for Higher Learning & Advanced Research
Aurangabad.

Incharge
Criterion 1

Dr. Rafiq Zakaria Cehtre for Higher Learning & Advanced Research

Dr. Rafiq Zakaria Campus, Dr. Rafiq Zakaria Marg, Aurangabad

P.G. Department of Computer Science

Time Table of II Semester (2021-22)

Day \ time		9:30-10:30	10.30-11:30	11:30-12:30	12:30-01:30	1:30-2:00	2:00-3:00	3:00-4:00	4:00-5:00	5:00-6:00
1	Monday		CSC411	CSC410	CSC409	RECESS	CSC467			
2	Tuesday		CSC411	CSC410	CSC409		CSC435			
3	Wed' day		CSC411	CSC410	CSC409					
4	Thursday		CSC440	CSC421	CSC426					
5	Friday		CSC440	CSC421	CSC426		CSC466			
6	Saturday		CSC440	CSC421	CSC408		CSC468			

CSC408	Technical Report Writing	N
CSC409	Programming 2 (Advanced Python)	N
CSC410	Data Communication	Z
CSC411	Software Engineering	A
CSC421	Image Processing	A
CSC440	Digital Signal Processing	Z
CSC466	Practical CSC409 Programming 2(Advanced Python)	N
CSC467	Practical CSC410 Data Communication	Z
CSC468	Practical CSC411 Software Engineering	A
CSC426	Practical CSC421 Image Processing	A
CSC435	Practical CSC440 Digital Signal Processing	Z

N	Dr. Nazneen Akhter
A	Dr. Adiba Saher
Z	Mrs. Syed Zebanaaz

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(Incharge Director)
Incharge Director
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Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research

Dr. Rafiq Zakaria Campus, Rauza Baugh, Aurangabad.

Question Bank

Class	M.Sc.IIyr	Semester	IV
Subject	Microbiology	Paper No.	XIII
Academic year	2021-2022	Paper Name	Recombinant DNA Technology
Department	Microbiology	Name of the Teacher	Zarina Shaikh

Subjective Questions

1. Comment on M13 mp vectors.
2. What are the essential features of expression vectors? Comment on PUL plasmids.
3. Explain in short the construction of cDNA library.
4. Comment on any two methods used in screening of recombinant protein.
5. Explain principle and applications of RT-PCR.
6. Describe the construction of BT-cotton.
7. Explain mode of action and applications of nucleotidyltransferase and S1 nuclease.
8. Comment on DNA finger printing.
9. Describe SV40 plasmid vectors.
10. Describe Southern hybridization technique.
11. Comment on multiplex PCR.
12. Explain colony hybridization technique.
13. Taake a brief account of properties and mode of action of T4 DNA ligase.
14. Describe the applications of alkaline phosphatase and polynucleotide kinases.
15. Comment on chromosome walking.
16. Write a note on autoradiography.
17. Describe evolution and desirable features of pUC 18.
18. Comment on genetic map and properties of YAC.
19. With suitable expression vector describe construction of genomic libraries.
20. Define selectable and scorable markers. Comment on insertional inactivation.
21. Comment on ligation mediated PCR.
22. Describe how rDNA technology is helpful in treating ADA deficiency.
23. Comment on properties and applications of type II restriction endonuclease.
24. Write a note on lambda phage vectors.
25. Write a note on radiolabelled antibody test.

H.O.D

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Class	M.Sc. I yr	Semester	I
Subject	Microbiology	Paper No.	I
Academic year	2021-2022	Paper Name	Biostatistics, Computer applications and Research methodology
Department	Microbiology	Name of the Teacher	Zarina Shaikh

Multiple Choice Questions

1. If the coefficient of determination is a positive value, then the regression equation
   a) must have a positive slope
   b) must have a negative slope
   c) could have either a positive or a negative slope
   d) must have a positive y intercept
2. If two variables, xand y, have a very stronglinear relationship, then
   a) there is evidence that xcauses a change in y
   b) there is evidence that ycauses a change in x
   c) there might not be any causal relationship between xand y
   d) None of these alternatives is correct.
3. If the coefficient of determination is equal to 1, then the correlation coefficient
   a) must also be equal to 1
   b) can be either -1 or +1
   c) can be any value between -1 to +1
   d) must be -1
4. Analysis of variance is a statistical method of comparing the …….. of several populations
   a) Means
   b) Variances
   c) Standard deviation
   d) None of these
5. A sample is said to be …….. if it has been selected in such a way that every element in the population had an equal opportunity of being included in the sample.
   a) Non-random
   b) Random
   c) Biased
   d) Unbiased
6. Types of measurement of biological data includes
   a) Data on interval scale and ratio scale.
   b) Data on ordinal scale and nominal scale.
   c) Discrete and continuous data.

d) All of the above

7. A quantity such as a measure of central tendency or a measure of dispersion is called a ..... when it describes or characterizes a population.
   a) Non-parameter
   b) Parameter
   c) Variable
   d) Constant
8. ..... is often used as a summation sign.
   a) B
   b) Ω
   c) Δ
   d) Σ
9. HTML is used to create
   (a) machine language program
   (b) high level program
   (c) web page
   (d) web server
10. The term DNS stands for
   (a) Domain Name System
   (b) Defense Nuclear System
   (c) Downloadable New Software
   (d) Dependent Name Server
11. Identify which cumulative series is data A and data B.

Data A		Data B	
Marks obtained	No. of students	Marks obtained	No. of students
Less than 40	8	Less than 30	100
Less than 50	20	Less than 40	92
Less than 60	40	Less than 50	80
Less than 70	65	Less than 60	60
Less than 80	83	Less than 70	35
Less than 90	100	Less than 80	17

   a) Less than series and Less than series
   b) Less than series and More than series
   c) More than series and Less than series
   d) More than series and More than series
12. Graphical representation of ungrouped data includes
   a) Line graphs.
   b) Bar graphs.
   c) Circle graphs or pie diagrams.
   d) Pictograms and a,b,c.
13. Graphical representation of grouped data does not include
   a) Ogive curves
   b) Histogram

c) Frequency polygon
d) Bubble spots

14. Types of statistical units consists of
    a) Units of collection
    b) Units of analyses
    c) Units of interpretation
    d) All of the above
15. Aspects of the survey report includes
    a) Statement of purpose
    b) Collection of information
    c) Design of analysis
    d) All of the above
16. Formula for determining the sample size is
    a) $n=(Z\sigma/d)^2$
    b) $n=(Z\sigma/d)^3$
    c) $n=(t\sigma/d)^2$
    d) $n=(Z\alpha/d)^2$
17. Semi-logarithmic graph can be constructed by
    a) Plotting the given values on a natural scale.
    b) Plotting the given values on a semi-logarithmic scale.
    c) Both a and b
    d) None.
18. A frequency distribution can be presented graphically by
    a) Histogram
    b) Frequency polygon
    c) Ogive or cumulative curves
    d) All of the above
19. Which of the following would require the largest sample size
    a) Cluster sampling
    b) Random sampling
    c) Systematic sampling
    d) Proportional sampling
20. Who is called as the "Father of biostatistics and eugenics".
    a) Charles Darwin
    b) Francis Galton
    c) Katy Pearson
    d) W.G.R. Weldon

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