



Nanded Education Society Science College, Nanded

Affiliated to Swami Ramanand Teerth Marathwada University, Nanded, (MS)
(Reaccredited with "A" grade by NAAC with (CGPA 3.35) 4th Cycle,
CPE Status, DST-FIST, Best College Award (SRTMUN)



Annual Quality Assurance Report 2023-24

Criteria – 5

Students Support and Progression

5.1.3. Capacity building and skills enhancement initiatives taken by the institution include the following: soft skills language and communication skills, Life skills (Yoga, physical fitness, health and hygiene) ICT/ Computing skills

Report of

Two Month Certificate Course

on

“Object Oriented Concept with Python Programming”

1st July – 1st September 2023

Organized by

Department of Computer Science

N.E.S. Science College, Nanded 431605

Tel: 02462-251648

Fax No: 02462-250465

www.sciencecollegennd.org

principal@sciencecollegennd.org



[Handwritten Signature]
PRINCIPAL
Science College, Nanded

Date: 25/06/2023

Notice

All the students those are enrolled for the two Month Certificate course, "Object oriented concept with Python Programming", are here by informed that the course has been going to start on Date 1 July 2023. Kindly attend the course regularly. The duration of course is of two months.


Course Coordinator
Dr. S.S. Modi

Principal 
Dr. D.U. Gawri
PRINCIPAL
Science College, Mandad



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N.E.S. Science College Nanded

Department of Computer Science

Object Oriented Concept with Python Programming

Sr.No	Student Name
01.	Varsha Suryawanshi
02.	Jogdand Vishal
03.	Sudhir Sakhare
04.	Kapure Shubham Yadhav
05.	Uskalwar Anusaya Nagnath
06.	Narwade Dhiraj Janardhan
07.	Abhishek Ramechandra Mulavkar
08.	Pawade Gayatri Shankar
09.	Panchal Savitri Maroti
10.	Markhale Shridevi Naganath
11.	Shreya Panchal
12.	Anmod Rutuja Vasant
13.	Gaddapod Rohini Shankar
14.	Rathod Ankita Shriram
15.	Bhange Sushmita Vitthalrao
16.	Kulkarni Vaishnavi Vinod
17.	Simran Ayesha
18.	Rajnandini Dhammadip Buddhivani
19.	Morgewar Pooja
20.	Mahadevi Ramesh Darshewad
21.	Shivchapan Subhash Puple



Coordinator

Dr. S.S. Modi



Two Month Certificate Course

on

“Advanced Python Programming”

1st July – 1st Sept 2023

Organized by

Department of Computer Science

N.E.S. Science College, Nanded 431605



Patrons

Dr. Venkatesh Kabde

President, Nanded Education Society, Nanded.

CA. Dr. Pravin Patil

Vice-President, Nanded Education Society, Nanded.

Sow. Shymal Patki

Secretary, Nanded Education Society, Nanded.

Shri. Prafulkumar Agrawal

Joint-Secretary, Nanded Education Society, Nanded.

Organizing Committee

Convener

Dr. D.U. Gawai, Principal

Co-Convener

Dr. D.D. Pawar, Vice-Principal

Course Co-ordinator & Organizing Secretary

Dr. Sangita S. Modi

Organizing Committee

Dr. D. D. Pawar

Dr. B.D. Gachande

Dr. S.R. Pingalkar

Dr. D. R. Munde

Dr. L.P. Shinde

Dr. Mrs. A.R. Shukla

Dr. S.L. Jadhav

Dr. A.T. Shinde

Dr V.V. Kulkarni

Dr. K.S. Shillewar

Dr. Mrs. V.D. Borgaonkar

Dr A. P. Borikar

Mr. E.M. Khillare

Dr.U.S. Patki

Dr. Mohseena Tehseen

Mr. J. R. Duve

Mrs. Sukeshna Narwade

Miss. Yogeshwari Choudhary

Call for Students



Message circulated among the participants for registration

Greeting from science college, Nanded, Maharashtra

Nanded Education Society

SCIENCE COLLEGE, NANDED

Department of Computer Science

Organized 60 days Certificate Course

In

Object oriented Concept with Python Programming

Duration 01/07/2023 To 1/09/2023

Time: 3:00pm To 5:00pm

Resource Person: Dr. Sangita S.Modi

Subject: python

Resistration of Students

Registration Form: has been done using offline form.



Resume of Resource Person

- 1) Full Name in BLOCK LETTERS : (SANGITA SHIVSHARNAPPA MODI)
2) Educational qualification : M.Sc.(COMPUTER), B.Ed., M.Phil., Ph.D.
3) Subject with specialization : COMPUTER SCIENCE
4) Academic Vitae (attach documents):

Exam	Univ./Board	Year of Passing	Percentage Obtained	Class / Grade
B.Sc.(Computer)	B.A.M.U A'Bad	1998	63.10%	First class
M.Sc.(Computer)	B.A.M.U A'Bad	2000	65.33%	First class
M. Phil. (Computer Science)	YCMOU Nashik	2012	62.86%	First class
Ph.D.	SRTMU Nanded	2021	Awarded	Awarded

- 5) **Teaching Experience:-** Working as computer faculty, since 2007 at Science College, Nanded. I have 15 years experience in teaching UG and PG
- 6) **Other Activities:**
- A. MSCIT exam passed in first class.
 - B. Certificate of ICT Training program has achieved from State Board Pune after finishing ICT Training conducted by HSC State Board Pune at Sinhgad College, Lonawala.
 - C. I have appointed as a ICT co-ordinator for Nanded district from 2012 to 2015. The ICT training program has conducted for Primary and secondary school teachers by State government as well as central government in collaboration with Higher Secondary State Board Pune, Latur Board and Science College, Nanded.
 - D. I have appointed for "Kalchachni program" as a Nanded district co-ordinator in 2015-2016.
 - E. Conducting 1 month python course at Science college Nanded.
- 7) **Achievement in Research:**
- A. Government of India Copyright registered for three research ICT Tool useful for educational organization.

1. Work Title: "Algorithm and tool developed to Block Non-Learning website on Chrome Browser using Browser Extension",

Application Number: 26680/2021-CO/SW

Date of Application: 02/11/2021

ROC number : SW-15233/2022

Date of registration: 28-01-2022

2. Work Title: "Website classification by using Web content mining, NLP and WSD method in real time"

Application Number: 4945/2022-C()/SW

Date of Application: 05/03/2022

ROC number : SW-15580/2022

Date of registration: 08-07-2022

3. Work Title: "Educational Content Search Engine Based on Recommendation System".

Application Number: 4947/2022-CO/SW

Date of Application: 05/03/2022

ROC number : SW-15942/2023

Date of registration: 01-02-2023

B. Published seven papers. Among that one paper is published in IEEE, One paper is published in Springer and one paper is published in Scopus index journals.

8) Subjects known: Python, C,C++, java, Web Designing, Operating System, Data Structure, Organization of computer Architecture and microprocessor programming, Software engg., Computer Networking.



Time Table of sixty Days Python Course

Date 01/07/2023 to 01/09/2023

Day	Theory	Practical
Monday	3:00pm TO 4:00pm	4:00pm TO 5:00pm
Tuesday	3:00pm TO 4:00pm	4:00pm TO 5:00pm
Wednesday	3:00pm TO 4:00pm	4:00pm TO 5:00pm
Thursday	3:00pm TO 4:00pm	4:00pm TO 5:00pm
Friday	3:00pm TO 4:00pm	4:00pm TO 5:00pm
Saturday	3:00pm TO 4:00pm	4:00pm TO 5:00pm
Sunday	3:00pm TO 4:00pm	4:00pm TO 5:00pm

Syllabus of Certificate Course & Duration

N.E.S. Science College, Nanded

Department of Computer Science

Course Name: Certificate Course on

Advanced Python Programming

Course Duration: 60 days Time: 2 hour/day

Syllabus of Certificate Course & Duration

Unit I:

1. Python Introduction and Installation 5 hours

Install Python IDE — How to Install Python on Windows [Pycharm

IDE] Python Hello World — Create Your First Python Program

Python print () Function — How to Print in Python with Examples

Python Variables — How to Define/Declare String Variable Types

2. Python Data Structure 5 hours

Python TUPLE — Pack, Unpack, Compare, Slicing, Delete, Key

Python Dictionary (Dict) — Update, Cmp, Len, Sort, Copy, Items, str

Example Python Dictionary Append — How to Add Key/Value Pair

Python Operators — Arithmetic, Logical, Comparison, Assignment, Bitwise &

Precedence Python Arrays — Create, Reverse, Pop with Python Array Examples **Unit II:**

1. Python Conditional Loops 5 hours

Python Conditional Statements — IF...Else, ELIF & Switch Case

Python For & While Loops — Enumerate, Break, Continue

Statement Python break, continue, pass statements — Learn with

Example

2. Python Strings 5 hour

Python Strings:— Replace, Join, Split, Reverse, Uppercase & Lowercase



Python String Function,

3. Python Function 10 hours

Python Main Function & Method Example — Understand `__main__`

Python Functions Examples — Call, Indentation, Arguments & Return Values
Lambda Functions in Python — Python Lambda Functions with EXAMPLES
Python built in Function

Unit III: Advance python

Object oriented programming 10 hours

Python OOPs — Class, Object, Inheritance and Constructor, abstract class with Example -
File handling in python 5 hours

Python Exception Handling — Try, Catch, Finally

Python readline() Method — What is Python readline? (With Examples)

Student Attendance & Marklist

Student Mark list of Certificate Course in

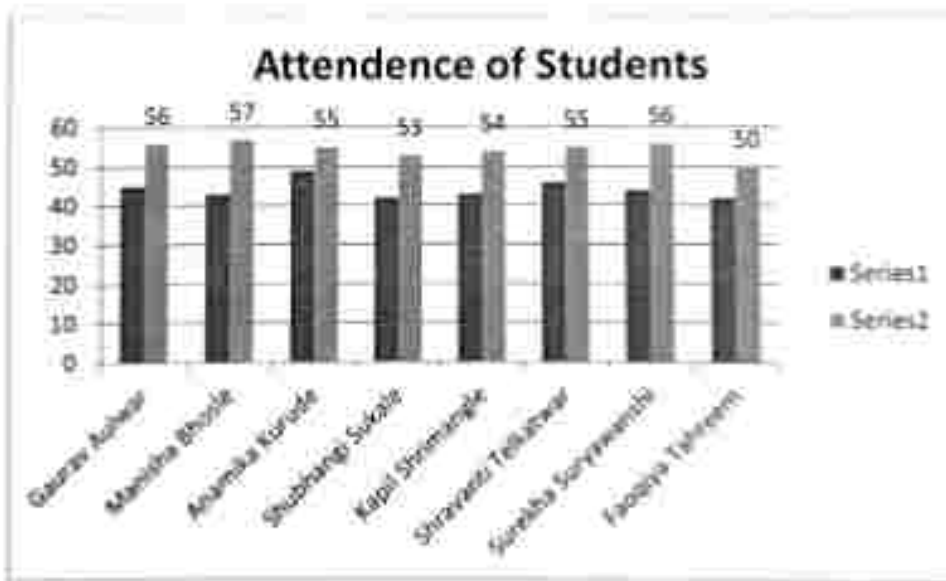
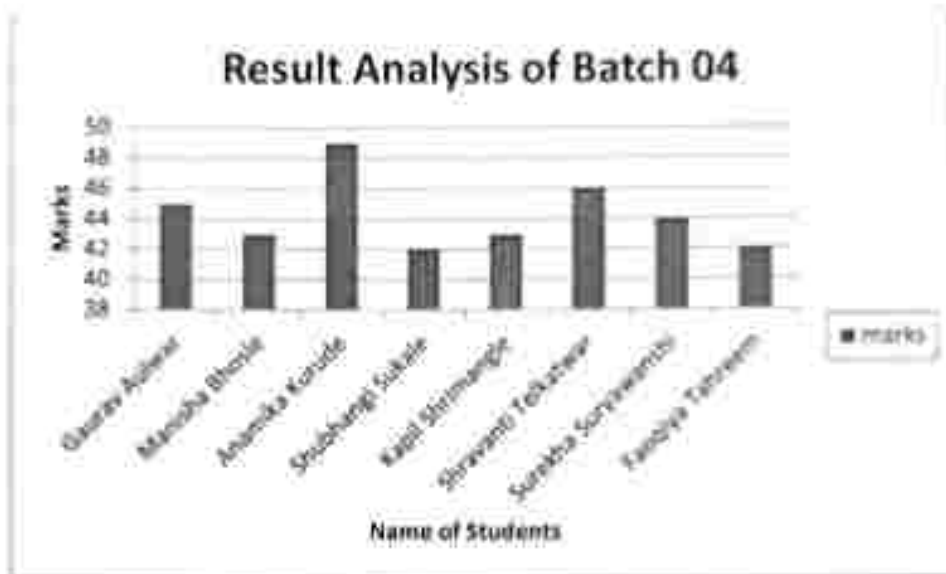
Advanced Python Programming (60 days)

Time : 3.00pm to 5.00 pm

Sr.No	Name of Student	Score out of 60	Attendance of 60 days course
1	Jogdand Vishal	45	56
2	Sudhir Sakhre	43	57
3	KApure Shubham	49	55
4	Uskalwar Anusaya	42	53
5	Narwade Dhiraj	43	54
6	Shravanti Telkatwar	46	55
7	Surekha Suryawanshi	44	56
8	Faoqiya Tahreem	42	50



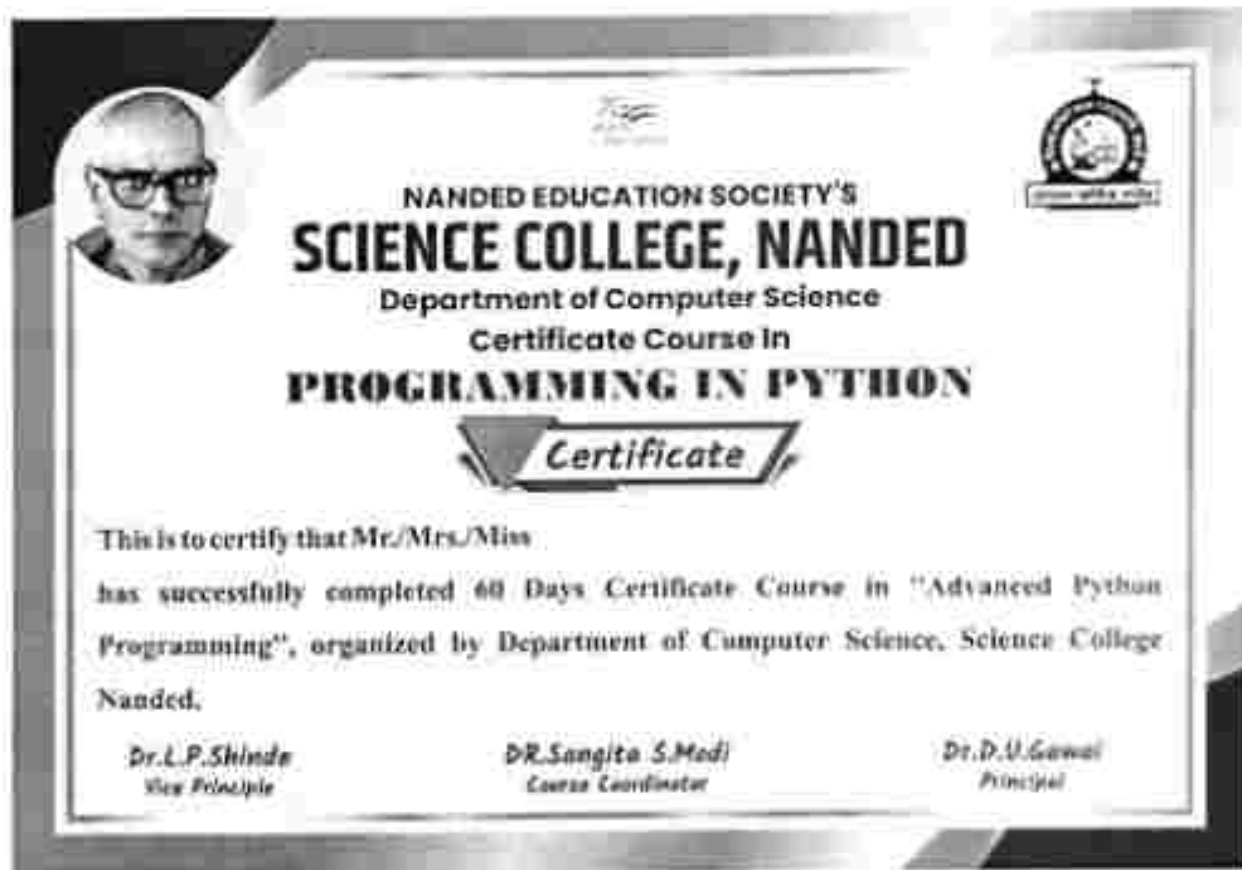
Exam Reports

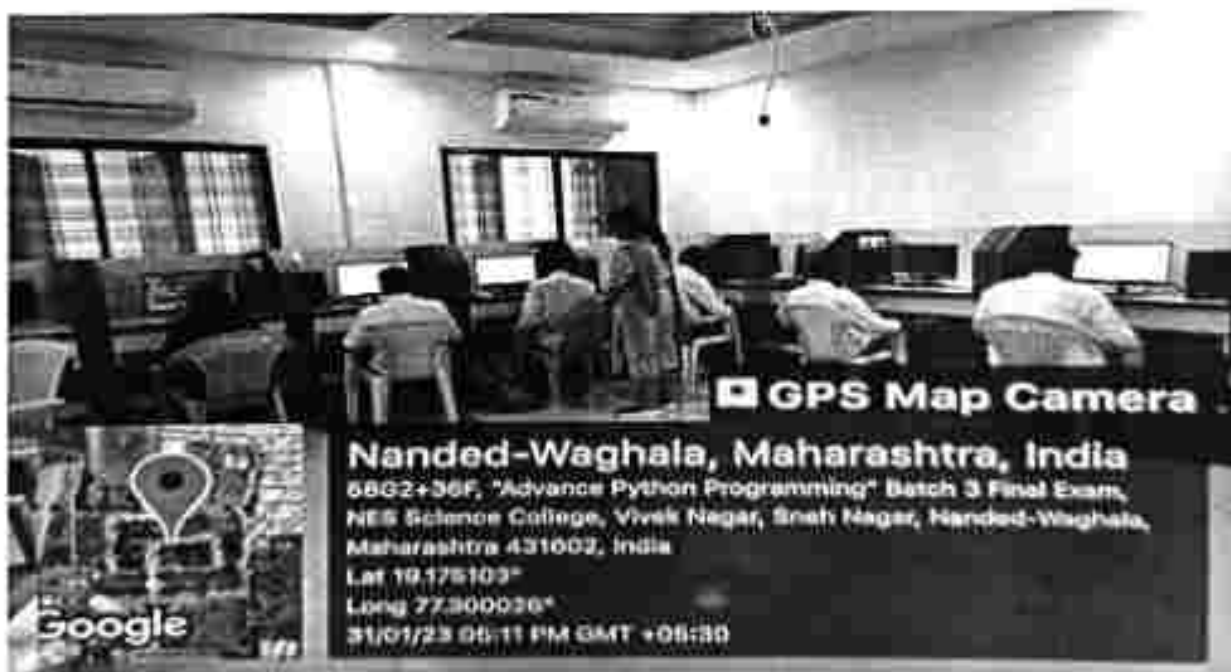


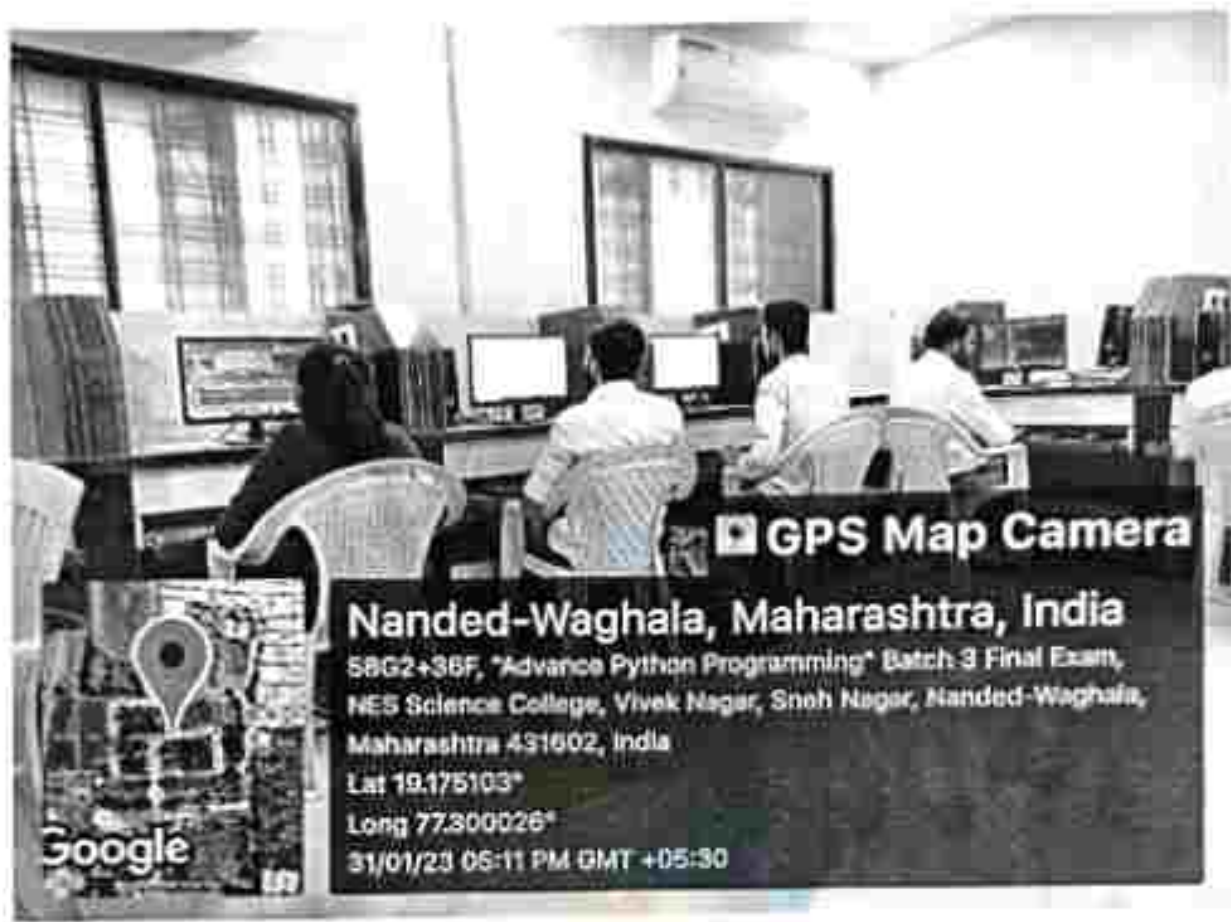
Valedictory Program and Certificate Distribution

The Valedictory program of "Advanced Python Programming" Batch four Certificate course has been conducted on the occasion of 1st May. The Hon'ble Dr. Venkatesh Kabde Sir, President Nanded Education Society, Nanded has been present as a chief guest. Also Our college Principal Dr. D.U. Gawai Sir, Vice Principal Dr.L.P. Shinde Sir, Vice Principal Dr. Mrs. Aruna Shukla Madam, Vice Principal Shri. E.M. Khillare Sir, Head of Department of Computer Science and Stat. Dr R.A. Mynneswar Sir, GC Member Dr. A.T. Shinde Sir, IQAC Coordinator Dr.Mrs.Vibhati Kulkarni Madam, all Heads of Department, All Respected Staff members of Senior and Junior College, Nonteaching staffs and students are present on this occasion. All the students are felicitated by certificates.

Glimpes of Batch 4 Course







GPS Map Camera

Nanded-Waghala, Maharashtra, India

58G2+36F, "Advance Python Programming" Batch 3 Final Exam,
NES Science College, Vivek Nagar, Shoh Nagar, Nanded-Waghala,
Maharashtra 431602, India

Lat 19.175103°

Long 77.300026°

31/01/23 05:11 PM GMT +05:30





NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
 Nanded)

(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category:

Batch:

Date:

Paste
Your Passport
Photo
Here

1. Name of the Student:
(IN CAPITAL LETTERS) VARSHA SURYAWANSHI
2. Father's Name
(IN CAPITAL LETTERS) NAGESH SURYAWANSHI
3. Mother's Name
(IN CAPITAL LETTERS) RENUKA SURYAWANSHI
4. Date of Birth: 15 May 2004
5. Address for Correspondence: Daryapur Pt Pawalewadi
Nanded.
6. Contact Number: 7083875648
7. Email Id: varshasuryawanshi036@gmail.com
8. Caste and Category: Open (Maratha)



9. Name of College you Studying: Science c/g Nanded (NES)

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
1	10th	Latur	Hand Writing PBC Fishy Eng. English	82%
2	12th	Latur	PBC Fishy	62%
3	B.Sc. 1st year	Srtm. Uni.	CZGS	-

11. Hobbies and other interests: Acting, reading, creativity

12. Declaration by Student:

I Varsha Nagesh Suryawanshi hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Varsha
Student Signature with Name
Varsha Nagesh
Suryawanshi

Signature of Coordinator

Principal



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Date:

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Photo
Here

1. Name of the Student:
(IN CAPITAL LETTERS) JOGDAND VISHAL
2. Father's Name
(IN CAPITAL LETTERS) JOGIDAN GATANAN
3. Mother's Name
(IN CAPITAL LETTERS) JOGDAND GOKARNA
4. Date of Birth: 22 may 2002
5. Address for Correspondence: at post ARDHADUR
tg. ARDHADUR Dist.
NANDED
6. Contact Number: 9145685001
7. Email Id: jogdand_vishal163@gmail
8. Caste and Category: Chambhar (S.C)



9. Name of College you Studying: N.E.S. science collage nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: _____

12. Declaration by Student:

I Jogdand Vishal Chayman hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Student Signature with Name

Jogdand Vishal
JOGDAND VISHAL

Signature of Coordinator

Principal



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Admission Number:

Category:

Batch:

Date:

Paste
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 Photo
 Here

1. Name of the Student:
 (IN CAPITAL LETTERS) SUDHIR SAKHARE
2. Father's Name
 (IN CAPITAL LETTERS) SHIVAJI SAKHARE
3. Mother's Name
 (IN CAPITAL LETTERS) SUNITA SAKHARE
4. Date of Birth: 12-10-2000
5. Address for Correspondence: AT - post KAMTHA (B-K)
TA - Ashhapur Dist - Nanded

6. Contact Number: 8605 600227
7. Email Id: sakhare.sudhis945@gmail.com
8. Caste and Category: OBC (NT-2)



9. Name of College you Studying: N.E.S science college nanded.

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
①	S.S.C	Lecturis		66.40%
②	H.S.C	Lecturis		56%

11. Hobbies and other interests: _____

12. Declaration by Student:

I Sudhis Sakhorse hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Sudhis Sakhorse
Student Signature with Name

Signature of Coordinator

Principal



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Batch:

Date:

Paste
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Photo
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1. Name of the Student:
(IN CAPITAL LETTERS) KAPURE SHUBHAM YADAV
2. Father's Name
(IN CAPITAL LETTERS) KAPURE YADAV GANPATRAO
3. Mother's Name
(IN CAPITAL LETTERS) KAPURE USHA YADAV
4. Date of Birth: 26-03-2001
5. Address for Correspondence: Ashish Nagar, Wadi (Bk)
Nanded.
6. Contact Number: 9821129622
7. Email Id: kapure.shubham.03@gmail.com
8. Caste and Category: Sc



9. Name of College you Studying: N.P.S science college

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: Playing Cricket

12. Declaration by Student:

I Shubham Kapur hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.



Student Signature with Name

Signature of Coordinator

Principal



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Category:

Batch:

Date:

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1. Name of the Student:
(IN CAPITAL LETTERS) USKALWAR ANUSAYA NAGNATH
2. Father's Name
(IN CAPITAL LETTERS) NAGNATH SHANKAR USKALWAR
3. Mother's Name
(IN CAPITAL LETTERS) MAHANANDA NAGNATH USKALWAR
4. Date of Birth: 23-07-2005
5. Address for Correspondence: Shewala Tq. degloor
Dist Nanded
6. Contact Number: 9284368884
7. Email Id: uskalwatanusaya@gmail.com
8. Caste and Category: NT-B zingabhei



9. Name of College you Studying: NES Science college Nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
1	SSC	Latur		80%
2.	HSC	Latur	PCBAg	66%
3.	B.Sc 1 st year	Latur	CBCS	

11. Hobbies and other interests: play, written

12. Declaration by Student:

I _____ hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.


Student Signature with Name

Signature of Coordinator

Principal



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Admission Number:

Category:

Batch:

Date:



1. Name of the Student:
(IN CAPITAL LETTERS) NARWADE DHIRAJ JANARDHAN
2. Father's Name
(IN CAPITAL LETTERS) JANARDHAN SAKHARAM NARWADE
3. Mother's Name
(IN CAPITAL LETTERS) CHHAYABAI JANARDHAN NARWADE
4. Date of Birth: 20/03/2002
5. Address for Correspondence: At - Padner, Tq. Aardhapur
DIST. NANDED. Post Bhosi
431704
6. Contact Number: 7218402248 / 9119434228
7. Email Id: narwade.dhiraj@gmail.com
8. Caste and Category: Buddhist (SC)



9. Name of College you Studying: NFS science college Mandod.

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
1)	SSC	latas	PCBMTU	73%
2)	HSC	latas	PCBM	54.63

11. Hobbies and other interests: MUSIC LISTENING . playing games
Electronic gadgets

12. Declaration by Student:

I Narwade Dhiaji Jankar hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.


Narwade Dhiaji Jankar
Student Signature with Name

Signature of Coordinator

Principal



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Admission Number:

Category:

Batch:

Date:



1. Name of the Student:

(IN CAPITAL LETTERS)

ABHISHEK RAMCHANDRA
MULAUKAR

2. Father's Name

(IN CAPITAL LETTERS)

RAMCHANDRA SUHAKARRAO
MULAUKAR

3. Mother's Name

(IN CAPITAL LETTERS)

REKHA RAMCHANDRA
MULAUKAR

4. Date of Birth:

22-06-2005

5. Address for Correspondence:

AT. POST, T-9 HADGAON
DIST NANDED

6. Contact Number:

7057830227

7. Email Id:

abhishekmulaukar2005@gmail.com

8. Caste and Category:

Open - BRAMHAN



9. Name of College you Studying: N.E-S SCIENCE COLLEGE
NANDED

10. Educational Qualification: BSC F.Y.

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
1	HSC	LATUR	SCIENCE	
2	BSC	LATUR	-	89%

11. Hobbies and other interests: STUDY, play games.

12. Declaration by Student:

I ABHISHEK MULANIKAR hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

ABHISHEK
MULANIKAR
Student Signature with Name

Signature of Coordinator

Principal



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Department of Computer Science and IT
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Admission Number:

Category:

Batch:

Date: 21-03-2024

Paste
Your Passport
Photo
Here

1. Name of the Student:
(IN CAPITAL LETTERS) PAWADE JAYATRI SHANKAR
2. Father's Name
(IN CAPITAL LETTERS) SHANKAR JITTHAL PAWADE
3. Mother's Name
(IN CAPITAL LETTERS) SHEELA SHANKAR PAWADE
4. Date of Birth: 05/06/2005
5. Address for Correspondence: Bhosasar Chawk,
Mantri Nagar,
Nanded
6. Contact Number: 8180987879
7. Email Id: jayatripawade36@gmail.com
8. Caste and Category: Lingayat wani (OBC)



9. Name of College you Studying: N. E. S science College

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
1)	HSC	Latur	-	46.17%
2)	B.Sc	SRTMU	P.C, C.S, M.E	Appear.
3)	SSC	Latur	-	73.17%

11. Hobbies and other interests: sports, player

12. Declaration by Student:

I Mayatri Shankar Pawade hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Mayatri
Mayatri Pawade
Student Signature with Name

Signature of Coordinator

Principal



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Admission Number:

Category:

Batch:

Date:



1. Name of the Student:
(IN CAPITAL LETTERS) PANCHAL SAVITRI MAROTI
2. Father's Name
(IN CAPITAL LETTERS) PANCHAL MAROTI GANAPATI
3. Mother's Name
(IN CAPITAL LETTERS) PANCHAL GODAVARI MAROTI
4. Date of Birth: JUNE 10, 2005
5. Address for Correspondence: At. post. Sagaroli, tq. Bilali
Dist- Nanded.
6. Contact Number: 7038992009
7. Email Id: savitripanchal180@gmail.com
8. Caste and Category: Lohar (NT-B)



9. Name of College you Studying: N.E.S. Science College, Nanded.

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: Drawing, painting, reading

12. Declaration by Student:

I Savitri Maroti Panchal hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.


Savitri Maroti Panchal
Student Signature with Name

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
 Nanded)

(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category:

Batch:

Date:



1. Name of the Student:

(IN CAPITAL LETTERS) MARKHALE SHRIDEVI NAGANATH

2. Father's Name

(IN CAPITAL LETTERS) MARKHALE NAGANATH DEVRAO

3. Mother's Name

(IN CAPITAL LETTERS) MARKHALE VANDANA NAGANATH

4. Date of Birth:

23 OCT 2004

5. Address for Correspondence:

At Post. Sagroli TO. Biloli

Dist Nanded 431731

6. Contact Number:

7767875030

7. Email Id:

shridevi.markhale@gmail.com

8. Caste and Category:

open



9. Name of College you Studying: NES Science College Nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: Travelling, cooking.

12. Declaration by Student:

I Mankhale Shridevi Naganath hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Shridevi
Student Signature with Name
Shridevi Mankhale

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
SCIENCE COLLEGE, NANDED
(Affiliated to Swami Ramanand Teerth Marathwada University,
Nanded)
(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
Status)

Department of Computer Science and IT
**CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category:

Batch:

Date:



1. Name of the Student:
(IN CAPITAL LETTERS) SHREYA PANCHAL
2. Father's Name
(IN CAPITAL LETTERS) BAJARANG PANCHAL
3. Mother's Name
(IN CAPITAL LETTERS) SUKSHAM
4. Date of Birth: 07/07/2005
5. Address for Correspondence: Sagzoli Tq. Biloli Dist Nanded

6. Contact Number: 7218939047
7. Email Id: panchalshreya14@gmail.com
8. Caste and Category: OBC



9. Name of College you Studying: NES Science College Nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: Reading, Travelling

12. Declaration by Student:

I Shreya Bajirong Panchal hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Shreya Panchal

Shreya

Student Signature with Name

Signature of Coordinator

Principal

9. Name of College you Studying: N.E.S. Science College Nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: Reading, Travelling

12. Declaration by Student:

I Shreya Bajirang Panchal hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Shreya Panchal

Shreya

Student Signature with Name

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
 Nanded)

(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:
Category: ST
Batch: C2CS
Date: 22/09/2024

Paste
Your Passport
Photo
Here

1. Name of the Student:
(IN CAPITAL LETTERS) ANMOD RUTUJA VASANT
2. Father's Name
(IN CAPITAL LETTERS) ANMOD VASANT NANGINATHAD
3. Mother's Name
(IN CAPITAL LETTERS) ANMOD SAURUBA VASANT
4. Date of Birth: 24/04/2002
5. Address for Correspondence: Shrinagar Nanded, Near
calor house, shrinagar
6. Contact Number: 8605695452
7. Email Id: rutujavasad@gmail.com
8. Caste and Category: Mannerwadli (ST)



9. Name of College you Studying: M.E.S. Science College, Ranched

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
1.	ECF	Lokar	Maths, Sci, Comp social Sci, Art	81%
2.	HSC	Lokar	PCB	87%
3.	B.Sc 1st year	SRTM	PCB	Pass

11. Hobbies and other interests: Reading, listening music

12. Declaration by Student:

I Armed Rubija Vasant hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Student Signature with Name

Armed Rubija

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
 Nanded)

(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category:

Batch:

Date:

Paste
Your Passport
Photo
Here

1. Name of the Student:
(IN CAPITAL LETTERS) MUSKAN BEGIUM
2. Father's Name
(IN CAPITAL LETTERS) SHAIKH RAFFEEQ
3. Mother's Name
(IN CAPITAL LETTERS) MUMTAZ BEGIUM
4. Date of Birth: 15-05-2003
5. Address for Correspondence: Shrawasti nagar,
near masjid saleh,
Nanded-431602-
6. Contact Number: 9730601936
7. Email Id: muskanshaikh880500@gmail.com
8. Caste and Category: open caste (muslim)



9. Name of College you Studying: N.E.S - Science college, nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: _____

12. Declaration by Student:

I Muskan Shaikh Raveeq hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Muskan

Student Signature with Name

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

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 Nanded)

(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category:

Batch:

Date:

Paste
Your Passport
Photo
Here

1. Name of the Student:
(IN CAPITAL LETTERS) GADDAPOD ROHINI SHANKAR
2. Father's Name
(IN CAPITAL LETTERS) GADDAPOD SHANKAR DATARAM
3. Mother's Name
(IN CAPITAL LETTERS) GADDAPOD LAXMIBAI SHANKAR
4. Date of Birth: 11-6-2005
5. Address for Correspondence: Bolegan 79 Bilai
Dist Nanded
6. Contact Number: 2020673929
7. Email Id: gaddapodarohini230@gmail.com
8. Caste and Category: ST



9. Name of College you Studying: N.F.5 Science College Nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: _____

12. Declaration by Student:

I Gaddafed Rohini Shankar hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Rohini

Student Signature with Name
Gaddafed Rohini Shankar

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
 Nanded)

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 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category:

Batch:

Date:

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 Your Passport
 Photo
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1. Name of the Student:
 (IN CAPITAL LETTERS) RATHOD ANKITA SHRIRAM
2. Father's Name
 (IN CAPITAL LETTERS) SHRIRAM RATHOD
3. Mother's Name
 (IN CAPITAL LETTERS) GANGLASAGAR RATHOD
4. Date of Birth: 16-December 2003
5. Address for Correspondence: Skivolatta nagar, Malegaon
road, Nanded, 431605
6. Contact Number: 7588526298
7. Email Id: ankitarathod198@gmail.com
8. Caste and Category: (Vjnt) OBC -Banjara



9. Name of College you Studying: NES Science collage Nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: outdoors games

12. Declaration by Student:

I Ankita Shaisam Rathod hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.


Ankita Rathod
Student Signature with Name

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
 Nanded)

(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category:

Batch:

Date:

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Your Passport
Photo
Here

1. Name of the Student:
(IN CAPITAL LETTERS) BHANGE SUSHMITA VITTHALRAO
2. Father's Name
(IN CAPITAL LETTERS) BHANGE VITTHALRAO PANDURANGRAO
3. Mother's Name
(IN CAPITAL LETTERS) BHANGE SHOBHA VITTHALRAO
4. Date of Birth: 08 - Sep - 2004
5. Address for Correspondence: Sagraoli, Tq. Biloli
Dist. Nanded
6. Contact Number: 8263810199
7. Email Id: sushmitabhange@gmail.com
8. Caste and Category: HATKAR (NT-C)



9. Name of College you Studying: N.E.S. Science college

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: Reading book,

12. Declaration by Student:

I sushmita Bhange hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Bhange

Student Signature with Name
Bhange sushmita Vitthalrao

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

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 Nanded)

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Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:
Category:
Batch:
Date:

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Photo
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1. Name of the Student:
(IN CAPITAL LETTERS) KULKARNI VAISHNAVI VINOD
2. Father's Name
(IN CAPITAL LETTERS) KULKARNI VINOD AMBADAS
3. Mother's Name
(IN CAPITAL LETTERS) KULKARNI SUREKHA VINOD
4. Date of Birth: 23 August 2004 (23-08-2004)
5. Address for Correspondence: Saptgiri nages, tamba,
tg. hadgaon dist. nanded
6. Contact Numbers: 9975362127
7. Email Id: Vaishukulkarni33@gmail.com
8. Caste and Category: Beamban (open)



9. Name of College you Studying: N.E.S. Science College, Nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: Reading

12. Declaration by Student:

I kulkarni vaishnavi hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

kulkarni vaishnavi Vinod
kulkarni
Student Signature with Name

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
 Nanded)

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 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category:

Batch:

Date:

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 Your Passport
 Photo
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1. Name of the Student:
 (IN CAPITAL LETTERS) SIMRAN AYESHA
2. Father's Name
 (IN CAPITAL LETTERS) AHSAN MOHAMMAD PATHAN
3. Mother's Name
 (IN CAPITAL LETTERS) RAFIYA BEGUM
4. Date of Birth: 20-Feb-2005
5. Address for Correspondence: Somera Bagh Waghi
Road
Nanded.
6. Contact Number: 9249337713
7. Email Id: www.aye@pathanayesha811@gmail.com.
8. Caste and Category: Muslim, Open.



9. Name of College you Studying: N.T.S. Science College

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks

11. Hobbies and other interests: Reading books, learn new things

12. Declaration by Student:

I am Simran Ayesha hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Simran Ayesha



Student Signature with Name

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
 Nanded)

(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category: SC

Batch: C203

Date: 22-03-2024



1. Name of the Student:
(IN CAPITAL LETTERS) RAJNANDINI DHAMMDIP BUDDHIVANT
2. Father's Name
(IN CAPITAL LETTERS) DHAMMDIP RAJAN BUDDHIVANT
3. Mother's Name
(IN CAPITAL LETTERS) GETA DHAMMDIP BUDDHIVANT
4. Date of Birth: 12-08-2006
5. Address for Correspondence: Shimagan, Nanded.

6. Contact Number: 8080362278
7. Email Id: rajanandibuddhivant6206@gmail.com
8. Caste and Category: SC - MAHAR



9. Name of College you Studying: N.E.S. science college Handed

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
1	SSC	LATUR	Maths, Hindi, English, Music, Science	85.00%
2	HSC	LATUR	English, Hindi, Math, Phy, Chem, G.O.	64.00%
3	BSC F.Y	SR.T.M	Math, English (Z.C.S)	7.4%

11. Hobbies and other interests: Dance & Computer

12. Declaration by Student:

I Rainandini Dharmadip Buddhivant hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Rainandini
RAINANDINI BUDDHIVANT
Student Signature with Name

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
 Nanded)

(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
 Status)

Department of Computer Science and IT
 **CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
 PYTHON PROGRAMMING**

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Admission Number:

Category:

Batch:

Date:

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1. Name of the Student:
(IN CAPITAL LETTERS) POOJA MOGREWAR
2. Father's Name
(IN CAPITAL LETTERS) GANWADHAR MOGREWAR
3. Mother's Name
(IN CAPITAL LETTERS) ANURADHA MOGREWAR
4. Date of Birth: 2/10/2004
5. Address for Correspondence: Bolegam Ta. Biloli
Dis. Nanded.
6. Contact Number: 9730356177
7. Email Id: @poornamogrewar2006@gmail.com
8. Caste and Category: ABC



9. Name of College you Studying: NLS Science College, Nanded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
	SSC	PCC (GAP) Latkur.	PCC (GAP) Science	70%
	BSc - I year	SATMUN.	BZCS	84
	BSc - II year	SATMUN.	BZCS	73

11. Hobbies and other interests: Cooking, Stitching

12. Declaration by Student:

I Mogrewat Poija hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Poija
Student Signature with Name
Mogrewat Poija

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S
SCIENCE COLLEGE, NANDED
(Affiliated to Swami Ramanand Teerth Marathwada University,
Nanded)
(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
Status)

Department of Computer Science and IT
**CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH
PYTHON PROGRAMMING**

For Office Use Only

Admission Number:

Category:

Batch:

Date:

Paste
Your Passport
Photo
Here

1. Name of the Student:
(IN CAPITAL LETTERS) MAHADEVI RAMESH DARSEWAD
2. Father's Name
(IN CAPITAL LETTERS) RAMESH NAGORAO DARSEWAD
3. Mother's Name
(IN CAPITAL LETTERS) VIDYAVATI RAMESH DARSEWAD
4. Date of Birth: 5 - June - 2005
5. Address for Correspondence: AT post yavhi, ta. mukhed
Dist. Nanded.
Pin code - 431715
6. Contact Number: 9823459063
7. Email Id: mahadevidarsewad782@gmail.com
8. Caste and Category: ST



9. Name of College you Studying: N.E.S science college manded

10. Educational Qualification:

Sr. No.	Name of Exam	Board/University	Subjects	Percentage of Marks
	10 th	later Board		86-100
	12 th	later Board		76-100
	1 st year	SRTMUN	BZCS	70
	III rd sem	SRTMUN	BZCS	PASS

11. Hobbies and other interests: Reading, writing,

12. Declaration by Student:

I Mahadevi Ramesh Darsewad hereby declare that all the above information is accurate and true to the best of my knowledge. I will be responsible for any discrepancy arising out of the Form signed by me. I undertake that any misbehavior by me in college or laboratory will be liable to cancellation of my admission.

Mahadevi
Mahadevi Darsewad
Student Signature with Name

Signature of Coordinator

Principal



NANDED EDUCATION SOCIETY'S SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University,
Nanded)

(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE
Status)

Department of Computer Science and IT CERTIFICATE COURSE IN OBJECT ORIENTED CONCEPT WITH PYTHON PROGRAMMING

For Office Use Only

Admission Number:

Category:

Batch:

Date:

Paste
Your Passport
Photo
Here

1. Name of the Student:
(IN CAPITAL LETTERS) SHREYCHAMAN SUBHASH DUPLE
2. Father's Name
(IN CAPITAL LETTERS) SUBHASH GANPATRAO DUPLE
3. Mother's Name
(IN CAPITAL LETTERS) JATISHI SUBHASH DUPLE
4. Date of Birth: 05-06-2002
5. Address for Correspondence: TAYA MONDHA NANDED

6. Contact Number: 9346791800
7. Email Id: shreyapatil1st@gmail.com
8. Caste and Category: MAHARAJ AND OBC





**NANDED EDUCATION SOCIETY'S
SCIENCE COLLEGE, NANDED**

(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)
(NAAC Re-accredited "A" grade CGPA 3.38, Recipient of DST-FIST, CPE Status)

**CERTIFICATE COURSE IN
WORKING AND APPLICATIONS OF
LATEX SOFTWARE**

ORGANIZED BY

**DEPARTMENT OF MATHEMATICS
& APPLIED MATHEMATICS**

Science College, Nanded

2023-24




PRINCIPAL
Science College, Nanded

Date: 11/12/2022

Notice

All the students those are enrolled for the two Month Certificate course, "Working and Applications of Latex", are here by informed that the course has been start as per schedule. Kindly attend the course regularly. The duration of course is of two months/Three month/one month.




Principal

Dr. D.U. Gawai
PRINCIPAL
Science College, Nanded

Short Information of Course

Sr. No.	Criteria	Particulars
1.	Title of the Course	Certificate Course in "Working and Applications of LaTeX Software"
2.	Eligibility for Admission	Candidate who passed 10+2 examination with at least 50% marks in aggregate
3.	Passing Marks	The candidate must obtain 40% of the total marks in theory and practical separately to pass the course.
4.	Duration of the Course/ Semester	Four months
5.	Level	College
6.	Pattern	Short term course
7.	To be implemented from the Academic Year	Academic year 2023-24


Dr. P.R. Kulkarni


Course Co-ordinator
Dr. K.R. Gaikwad


Principal
Dr. D. U. Gawai



CONTENT

Sr. No.	Content
1	Preamble
2	Objectives of the Course
3	Ordinance
4	Syllabus of the Course
5	Course structure
6	Practicals
7	Mode of Assessment



PREAMBLE:

In today's technology-driven world, we leave so many things to our electronic gadgets. Surprisingly, many life scientists try manically to control the appearance of their documents by hand with programs like MS word. LaTeX takes this task off your hands by providing highly efficient algorithms to properly format your texts. The results are almost always superior to everything you could have done with editor like MS word, openOffice etc.

LaTeX is a typesetting engine. Unlike Word, which is controlled by mouse, various menus and buttons, LaTeX uses text commands to define the way your document is typeset. Following are some reasons, why one should seriously consider writing the scientific documents with LaTeX.

1. Beautifully typeset output.
2. Management of internal references and citations
3. Professional-looking documents
4. LaTeX is much faster
5. Edit images at any time.
6. Focus on the content.
7. Consistency through your document

In this contest, the Certificate Course in "Working and Applications of Software" will be conducted by Department of Mathematics & Applied Mathematics.



OBJECTIVES OF THE CERTIFICATE COURSE:

1. To know about LaTeX software.
2. To install LaTeX software.
3. To impart hands on training in LaTeX software.
4. To learn typesetting of research paper, thesis, books.
5. To promote employment and entrepreneurship in typesetting using LaTeX software.

COURSE OUTCOME:

- Student will enables to install LaTeX software.
- Students will learn layout design, page styles, and fancy header.
- Students will learn insertion of symbols & fonts, matrices, arrays used in mathematics, Physics, Chemistry and life sciences.
- Student will learn bibliography management.
- Student will learn how to write report writing, research paper, thesis, book writing.
- Students knowledge about various typesetting features in LaTeX software make them self sustainable after completing certificate course.



ORDINANCES FOR CERTIFICATE COURSE:

The Certificate Course in Working and Applications of LaTeX Software, will be covered under following ordinances.

1. Intake capacity -20.
2. The admission shall be opened to any candidate who has passed 10+2 examination with at least 50% marks in aggregate.
3. The candidate after passing examination will be issued a Certificate.
4. The supplementary examination shall be held in semester end or as fixed by the department.
5. Every candidate will be required to attend minimum of 75% lectures / periods delivered .
6. The candidate must obtain 40% of the total marks in theory and practical separately to pass the course.
7. Candidates will be offered English as the medium of Instructions Examination.



SYLLABUS OF THE COURSE

TITLE OF COURSE: WORKING AND APPLICATIONS OF LATEX SOFTWARE

Course will be of 04 Credits; each Credit will have 15 hours.

Unit	Topic	Credit
I	Installation of Latex Software and Basic formulation	I
II	Design and Typesetting of text and Equations	I
III	Document classes for report writing, Book, Thesis etc.	I
	Practical	I
	Total	IV Credit



COURSE STRUCTURE

Subject: **MATHEMATICS**

Title of Course: **WORKING AND APPLICATIONS OF LaTeX SOFTWARE**

Marks - 100

Hours - 60

Duration: 4 Months

Syllabus of the course

UNIT - I

- 1) Introduction of Latex software
- 2) Installation of LaTeX software
- 3) Typesetting
 - a. Page styles
 - b. Font size
- 4) Environment
 - a. Fancy Header
 - b. Typesetting texts

UNIT - II Design and Typesetting of Equation

A) Selection of

- 1) Basic Mathematics symbols
- 2) 2 X 2 Matrices
- 3) Arrays



B) Typesetting Mathematical Formulae

- 1) Fractions
- 2) Integrals
- 3) Sums

C) Inline mathematics formulas and displayed equations.

D) Producing Mathematical Graphics

UNIT-III Document classes for Book, Thesis

- 1) Table of content, index.
- 2) Geometry
- 3) Bibliography management.

Practical

- 1) Installation of LaTeX software
- 2) Selection of font size, font style, font color.
- 3) Selection of mathematical symbols and headings.
- 4) Typesetting of mathematical equations and equation numbering.
- 5) Tables, graphs, image insertion.
- 6) Management of references.
- 7) Typing of research paper or report.



Modality of Assessment

Theory – 60 Marks.

Practical – 40 Marks

Duration – The Examination shall be of 3 hours duration.

Theory question paper pattern

- 1) There shall be 3 questions each of 20 marks, On Each Unit there will be 1 question
- 2) All question shall be compulsory with Internal choice within the question
- 3) Terms for Practical Examination

Sr. No.	Particulars	Marks
1)	Practical Exam	30
2)	Record book	05
3)	Viva	05

Programme of the course

- 1) The candidate require to attend 75% lectures/ periods
- 2) The Candidate must obtain 40% of the total marks in theory and practical
- 3) Candidate will be offer English as a Medium of Instructions/ Examination

Eligibility

12th pass student from any discipline with 50% marks.

List of Reference Books

- 1) Latex beginning guide, Stefan Kottwitz.
- 2) Practical Latex, George Gratzel, Springer.
- 3) LATEX for Beginners, Workbook, Edition 5.
- 4) Learning LATEX by Doing, Andre Heck, 2002.
- 5) The Latex companion, M.Carter, B. VanBrunt, second edition, Addison wisely, Pearson Education.
- 6) Not so short LaTeX.





**NANDED EDUCATION SOCIETY'S
SCIENCE COLLEGE, NANDED**

(Affiliated to Swami Ramkrishna Mission's Maharashtra University, Nanded)
(NAAC Re-accrédited 'A' grade CGPA 3.00, Recognition of DSE, UST, CPE, Science)

CERTIFICATE COURSE

**IN
Advanced Database Administration Using
SQL**

(Structured Query Language)

ORGANIZED BY

DEPARTMENT OF COMPUTER SCIENCE

Science College, Nanded

2023-24

Batch 2




PRINCIPAL
Science College, Nanded

Short Information of Course

Sr. No.	Criteria	Particulars
1.	Title of the Course	Advanced Database Administration Using SQL
2.	Eligibility for Admission	Candidate who have Computer Science subject as optional subject in B.Sc
3.	Passing Marks	The candidate must obtain 40% of the total marks in theory and practical separately to pass the course
4.	No. of Years/ Semester	Three month
5.	Level	College
6.	To be implemented from the Academic Year	From Academic year 2021-22

Convener
Mr. Duve JayaprakashRajaram

Principal


Dr. D. U. Gawai

PRINCIPAL
Science College, Nanded



CONTENT

Sr. No.	Content
1	Preamble
2	Objectives of the Course
3	Ordinance
4	Syllabus of the Course
5	Syllabus
6	Practical
7	Mode of Assessment



PREAMBLE:

As we know that youth is struggling for recruitment, but today getting recruitment is become very struggle full, it is one of the responsibility of institution to help these youth for their recruitment. The students came from rural area are having good logical thinking and filled with potential and strength but they are not know about these skills in themselves. This course helps the students to improving their confidence level with the skills and practical knowledge and students will able to recruit themselves

In this contest, the Certificate Course "Advanced Database Administration Using SQL" will start in Computer Department.



OBJECTIVES OF THE CERTIFICATE COURSE:

- Learn concepts of structured and unstructured DATABASE;
- Learn concepts of structured and unstructured DATABASE.
- MongoDB
- Be able to write data retrieval queries and evaluate the result set.
- Be able to write queries that edit existing data.
- Be able to write queries and statements that create database objects.
- Understand the structure and design of structured and unstructured databases.
- Understand the importance and major issues of database security and the maintenance of data integrity.

COURSE OUTCOME:

- Students will acquire the basic knowledge about RDBMS
- Able to write themselves SQL queries
- Able to retrieve records for database
- Acquire knowledge about DDL
- Fit for SQL developer Job
- Students will get prepare for DBA

ORDINANCES FOR CERTIFICATE COURSE:



The Certificate Course **Advanced Database Administration Using SQL** started with keeping view of "Career Oriented Certificate Course" will be covered under following ordinances.

1. Number of Students per batch are 20.
2. The admission/ examination shall be opened to any candidate who has computer Science as optional subject of this institute.
3. The candidate after passing examination will be awarded a separate **Advanced Database Administration Using SQL**.
4. The supplementary examination shall be held in semester end or as fixed by the department.
5. Every candidate will be required to attend minimum of 75% lectures / periods delivered to that class.
6. The candidate must obtain 40% of the total marks in theory and practical separately to pass the course.
7. Candidates will be offered English as the medium of Instructions/ Examination.



SYLLABUS OF THE COURSE

TITLE OF COURSE: Advanced Database Administration Using SQL

Course will be of 04 Credits; each Credit will have 15 hours.

Unit	Topic	Credit
I	Theory	1
II	Internal	2
III	Practical Internal	3
IV	Practical	4
	Total	4 Credit



COURSE STRUCTURE

Subject: **Advanced Database Management**

Title of Course: **Advanced Database Administration Using SQL:**

Marks - **100**

Hours - **90**

Duration: **3 Months**

Syllabus of the Course

Chapter 1: Database Architecture

20 Theory

1.1 Introduction to client-server Database Model: Two-Tier Client server model, Three-Tier Client server model.

1.2 Concurrency Control Techniques: Concurrency control protocols: Locked Based protocols, granting of locks, Two Phase Locking protocol.

1.3 Introduction to parallel databases: Parallel database system architecture, Types of parallelism, Parallel Database Implementation.

1.4 Introduction to distributed databases: Distributed database system architecture, Benefits of distributed database system, Issues with distributed database systems.

Chapter 2: Object Based Databases and XML

18 Theory

2.1 Object Based Databases overview **2.2 Complex data types**

2.3 Structured types and inheritance in SQL **2.4 Table inheritance.**

2.5 Array and multiset types in SQL **2.6 Object identity (OI) and reference types in SQL.**

2.7 XML: Introduction, structure of XML, data, XML document schema Xpaths.

XQuery: FLOWER Expressions, Joins, Nested Queries, Sorting, functions, Functions and types

Chapter 3: Advanced Database Techniques

18 Theory



3.2 NoSQL database concepts: Types of NoSQL databases, NoSQL data modeling, Benefits of NoSQL, comparison between SQL and NoSQL database system.

3.3 NoSQL using MongoDB: Introduction to MongoDB Shell, Running the MongoDB shell, MongoDB client, Basic operations with MongoDB shell, Basic Data Types, Arrays, Embedded Documents

3.4 Querying with MongoDB: find() function, specifying which keys to return, query criteria, OR queries, Types specific querying

3.5 Aggregation Introduction: Aggregation Pipeline, Aggregation using Map reduce, Single purpose aggregation

Chapter 4: Advances in database

17 Theory

4.1 Introduction to Data Warehouse :Characteristics, Types of Data Warehouse Architecture, Data Marts, Data Warehousing Lifecycle, Data Warehouse Development

4.2 Introduction to Data Mining Techniques: Data mining technology and its relation to data warehousing, Association rules, classification and clustering, Applications of data mining.

4.3 Introduction to business intelligence: Features, frameworks, Types and approaches for machine learning.

4.4 Introduction to Multimedia Databases, Mobile Databases and digital databases.

Chapter 5: Big data management

17 Theory

5.1 Big Data.

5.2 Introduction to Hadoop: Building Blocks and Components, Hadoop architecture, HBase, HIVE, Solid-State Drive

5.3 Cloudera, Oracle cloud, 5.4 Introduction to R-programming.



Modality of Assessment

Theory – 100 Marks

Practical – 50 Marks

Duration – The Examination shall be of 3 hours' duration.

Theory question paper pattern

- 1) Multiple choice objective Exam of 100 marks covering all above syllabus will be conducted.
- 2) Terms for Practical Examination

Sr. No.	Particulars	Marks
1)	Practical Exam	30
2)	Skill Acquired	10
3)	Viva	10

Programme of the course

- 1) The candidate require to attend 75% lectures/ periods
- 2) The Candidate must obtain 40% of the total marks in theory and practical.
- 3) Candidate will be offer English/ Marathi as a Medium of Instructions/ Examination

Eligibility

B.Sc. I year exam passed with computer Science subject.

List of Reference Books

Sr.No	Title of The Book	Author	Publication
1	Database Management System Application	Kogent Learning Solutions Inc.	Dreamtech Press 2014, ISBN-978-93-5119-476-7
2	Database System Concepts	Korth Henry	Tata McGraw Hill Education, 6 th Edition, ISBN - 13-978-93-329-0138-4
3	Compleat Mysql	Vansum Vikram	McGraw Hill Education,



			ISBN-13: 9780070586840
4	SQL, PL/SQL The programming language of Oracle	Ivan Bayross	BPB Publications, 3 rd Edition ISBN-13:978-8176569644



Date: 11/01/2013

Yashwantrao Chavan Science
Nanded College Nanded
Department of Computer Science and IT

Student LIST

Certificate course in Advanced RDBMS using MSF (23-24)

Sl. No.	Name of Candidate
01	Aditya S. Patil
02	Aditya S. Patil
03	Aditya S. Patil
04	Aditya S. Patil
05	Aditya S. Patil
06	Aditya S. Patil
07	Aditya S. Patil
08	Aditya S. Patil
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14	Aditya S. Patil
15	Aditya S. Patil
16	Aditya S. Patil
17	Aditya S. Patil
18	Aditya S. Patil
19	Aditya S. Patil
20	Aditya S. Patil



Controller



SCIENCE COLLEGE,

NANDED.

ATTENDANCE REGISTER		YEAR	CLASS	SUBJECT																								
Roll No.	Month and Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
	Signature of Professor	[Handwritten Signatures]																										
No. of Lectures		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	Chavan A.C.	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
2	Mule S.B.	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
3	Satyashil Konde	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
4	Kokani K.P.	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
5	Sonarkar S.S.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
6	Jadhav D.A.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
7	Burkhalwar I.D.	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
8	Rathod S.R.	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
9	Dohale A.V.	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
10	Madhure A.B.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
11	Waranbhadkar S.B.	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
12	Telange A.C.	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
13	Pandit A.A.	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
14	Pawade N.S.	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
15	Ragde S.S.	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
16	Jadhav A.V.	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
17	Kulkarni P.H.	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
18	Madhure B.M.	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
19	Ghoshale R.S.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			



ATTENDANCE REGISTER		SCIENCE COLLEGE.													NANDED.												
Roll No.	Month and Date	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	21st	22nd	23rd	24th	25th	
	Signature of Professor																										
	No. of Lectures																										
1	Chavan A.S.	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	A	
2	Mule S.B.	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	
3	Satyashil Kample	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
4	Kakani K.P.	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	
5	Sontakhe S.S.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	
6	Jadhav D.A.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	
7	Burkhasom L.D.	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
8	Rathod S.R.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	
9	Dohale A.V.	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	
10	Madhure A.G.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
11	Waranthekar S.P.	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
12	Telange A.G.	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
13	Parit A.A.	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
14	Patil V.S.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	
15	Ragde S.S.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
16	Jadhav A.V.	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
17	Karthar P.H.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
18	Madure B.M.	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	
19	Ghable R.S.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	



SI		SCIENCE COLLEGE,										NANDED.																			
ATTENDANCE REGISTER YEAR																															
Roll No.	Month and Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Signature of Professor																														
	No. of Lectures																														
1	Chavhan A. C.	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	Mule S. B.	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	Satyashil Kamble	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	Kakanf K. P.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	Sontakhe S. S.	A	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	Jadhav D. A.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	Burkharwar I. D.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	Rathod S. R.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	Dohale A. V.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	Madhure A. B.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Wankhedkar S. P.	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	Telange A. C.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	Parit A. A.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	Paude V. S.	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	Ragde S. S.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	Jadhav A. V.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	Kantkar P. H.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	Madhure B. M.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	Ghate R. S.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P



W.S.S. Education Society
Science College Nanded,
Department of Computer Science and IT

Date: 18/04/2024

NOTICE

All the students of the Department of Computer Science and IT are hereby notified that the final exam of the course is scheduled for the month of May 2024. The exam will be held in the form of a written test. The exam will be held on the following dates and times:

Sl. No.	Name of the Candidate	Roll No.	Grade
1	[Signature]	[Signature]	[Signature]
2	[Signature]	[Signature]	[Signature]
3	[Signature]	[Signature]	[Signature]
4	[Signature]	[Signature]	[Signature]
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Science College Nanded
Department of Computer Science and IT

Name list

Workshop on Advanced Web Development SQI - 20/21

No. No.	Roll No.	Name of Candidate
1	ZK101	Abhishek Chaudhari (Gangotri)
2	ZK102	Adarsh Chaudhari (Dhule)
3	ZK103	Aditya Chaudhari (Sangli)
4	ZK104	Aditya Chaudhari (Sangli)
5	ZK105	Aditya Chaudhari (Sangli)
6	ZK106	Aditya Chaudhari (Sangli)
7	ZK107	Aditya Chaudhari (Sangli)
8	ZK108	Aditya Chaudhari (Sangli)
9	ZK109	Aditya Chaudhari (Sangli)
10	ZK110	Aditya Chaudhari (Sangli)
11	ZK111	Aditya Chaudhari (Sangli)
12	ZK112	Aditya Chaudhari (Sangli)
13	ZK113	Aditya Chaudhari (Sangli)
14	ZK114	Aditya Chaudhari (Sangli)
15	ZK115	Aditya Chaudhari (Sangli)
16	ZK116	Aditya Chaudhari (Sangli)
17	ZK117	Aditya Chaudhari (Sangli)
18	ZK118	Aditya Chaudhari (Sangli)
19	ZK119	Aditya Chaudhari (Sangli)

Signature



Science College Nanded
Department of Computer Science and IT

Mark list

Discrete Mathematics, B.A. Advanced BHMCA, Group 5414, 23-24

Sl. No.	Roll No.	Name of Candidate	Score out of 100
1	C1101	Chavan, Anshu Prakash	60
2	C1102	Chavan, Anshu Prakash	60
3	C1103	Chavan, Anshu Prakash	60
4	C1104	Chavan, Anshu Prakash	60
5	C1105	Chavan, Anshu Prakash	60
6	C1106	Chavan, Anshu Prakash	60
7	C1107	Chavan, Anshu Prakash	60
8	C1108	Chavan, Anshu Prakash	60
9	C1109	Chavan, Anshu Prakash	60
10	C1110	Chavan, Anshu Prakash	60
11	C1111	Chavan, Anshu Prakash	60
12	C1112	Chavan, Anshu Prakash	60
13	C1113	Chavan, Anshu Prakash	60
14	C1114	Chavan, Anshu Prakash	60
15	C1115	Chavan, Anshu Prakash	60
16	C1116	Chavan, Anshu Prakash	60
17	C1117	Chavan, Anshu Prakash	60
18	C1118	Chavan, Anshu Prakash	60
19	C1119	Chavan, Anshu Prakash	60
20	C1120	Chavan, Anshu Prakash	60



AZ-103-02
Nanded Education Society
Science College Nanded.
Department of Computer Science and IT
CERTIFICATE COURSE EXAMINATION
May 2024

(Certificate Course in Advanced RDBMS using SQL.)

(Thursday, 04-05-2024)

Time : 10.00a.m. to 12.00 noon

Max marks (100)

Min marks (40)

Note:

- 01) All Questions are compulsory.
- 02) All questions carry 2 mark.
- 03) No negative marking.

Q1. What type of database model organizes data in tables with rows and columns?

- A Hierarchical
- B Network
- C Relational
- D Object-Oriented

Answer: Relational

Q2. In a database, what is a unique identifier for each record in a table called?

- A Primary key
- B Secondary key
- C Foreign key
- D Index key

Primary key

Q3. Which SQL statement is used to retrieve data from a database?

- A UPDATE
- B DELETE
- C INSERT
- D SELECT

Answer: SELECT

Q4. What is the purpose of normalization in a database?

- A Increase data redundancy
- B Optimize query speed
- C Reduce data redundancy
- D Improve data security

Answer: Reduce data redundancy

Q5. Which of the following is not a characteristic of a good database design?



- A Data integrity
- B Data redundancy
- C Scalability
- D Efficiency

Answer: Data redundancy

Q6 Which data type is used in SQL to store true or false values?

- A INT
- B BOOLEAN
- C VARCHAR
- D FLOAT

Answer: BOOLEAN

Q7. In SQL, which data type is best suited for storing large texts such as articles or comments?

- A TEXT
- B VARCHAR
- C CHAR
- D BLOB

Answer: TEXT

Q8. Which SQL data type is used to store numerical values with fixed precision and scale?

- A DECIMAL
- B INTEGER
- C DATE
- D VARCHAR

Answer: DECIMAL

Q9. In SQL, what is the difference between CHAR and VARCHAR data types?

- A CHAR is fixed length, VARCHAR is variable length
- B CHAR is variable length, VARCHAR is fixed length
- C No difference
- D VARCHAR is used only for numeric data

Answer: CHAR is fixed length, VARCHAR is variable length

Q10. What data type would you use in SQL to store a date and time value together?

- A DATETIME
- B DATE
- C TIME
- D TIMESTAMP

Answer: DATETIME

Q11. Which SQL command is used to create a new table in a database?



- A CREATE
- B ALTER
- C DROP
- D TRUNCATE

Answer: CREATE

Q12 What does the DROP command do in SQL?

- A Adds a new row to a table
- B Deletes an existing table
- C Modifies a table
- D Creates a new table

Answer: Deletes an existing table

Q13 In SQL, what is the purpose of the TRUNCATE command?

- A Deletes specific rows from a table
- B Removes all rows from a table
- C Changes table structure
- D Creates a new table

Answer: Removes all rows from a table

Q14 Which command should be used to change the datatype of a column in an SQL table?

- A CREATE
- B ALTER
- C DROP
- D TRUNCATE

Answer: ALTER

Q15 What is the difference between the DROP and TRUNCATE commands in SQL?

- A DROP deletes the table, TRUNCATE deletes only the table data
- B TRUNCATE deletes the table, DROP deletes only the table data
- C No difference
- D Both commands modify table data

Answer: DROP deletes the table, TRUNCATE deletes only the table data

Q16 Which part of this statement is incorrect?

"CREATE TABEL Students (ID int, Name varchar(50));"

- A TABEL
- B Students
- C ID int
- D Name varchar(50)

Answer: TABEL



Q17. Identify the error in
"ALTER TABLE Students DROP COLUMN DateOfBirth date;"

- A ALTER TABLE
- B DROP COLUMN
- C DateOfBirth
- D date

Answer: date

Q18. What needs to be changed in
"TRUNCATE Students;" to make it a valid SQL statement?

- A TRUNCATE
- B Students
- C All Correct
- D Add a WHERE clause

Answer: All Correct

Q19. Correct the syntax error in
"CREATE TABLE Students (ID int PRIMARY, Name varchar(50));"

- A PRIMARY
- B ID int
- C Name varchar(50)
- D CREATE TABLE

Answer: PRIMARY

Q20. In "ALTER TABLE Students ADD COLUMN Email varchar(50);",
what is missing for this statement to be correct?

- A ADD COLUMN
- B Email
- C varchar(50)
- D All Correct

Answer: All Correct

Q21. Which SQL command is used to add a new record to a table?

- A SELECT
- B DELETE
- C UPDATE
- D INSERT

Answer: INSERT

Q22. What does the UPDATE command in SQL do?

- A Deletes a record
- B Modifies an existing record
- C Adds a new record



D Retrieves data

Answer: Modifies an existing record

Q23. In SQL, what is the purpose of the WHERE clause in a DELETE statement?

A Specifies which database to use

B Specifies which table to delete from

C Specifies which records to delete

D Specifies how to order the records

Answer: Specifies which records to delete

Q24. Which command is used to remove a specific record from a table in SQL?

A DELETE

B UPDATE

C INSERT

D SELECT

Answer: DELETE

Q25. How does a transaction ensure data integrity in SQL?

A By locking the database

B By allowing multiple users to modify data simultaneously

C By ensuring all operations within the transaction are completed before committing

D By automatically updating all related tables

Answer: By ensuring all operations within the transaction are completed before committing

Q26. In the query "SELECT Name FROM Employees WHERE Age > 30 AND Department = HR;"

what needs to be corrected?

A All Correct

B The SELECT keyword

C The WHERE clause

D The AND operator

Answer: All Correct

Q27. Identify the error in

"UPDATE Employees SET Salary = Salary * 1.05 WHERE;"

A UPDATE keyword

B SET keyword

C WHERE clause

D No error

Answer: WHERE clause



Q28. What is missing in the following statement?

"INSERT INTO Employees (Name, Department) VALUES ('John', 'Sales');"

- A All Correct
- B Employee ID
- C A WHERE clause
- D Additional column names

Answer: All Correct

Q29. Correct the syntax error in

"DELETE FROM Employees HAVING Age < 25;"

- A DELETE keyword
- B FROM keyword
- C HAVING keyword
- D No syntax error

Answer: HAVING keyword

Q30. In "UPDATE Employees SET Age = Age + 1 WHERE Department IN ('Sales', 'HR') AND Age >= 30;", identify the error.

- A The IN operator
- B The AND operator
- C No error
- D The SET keyword

31. Point out the correct statement.

- (a) MongoDB is classified as a NoSQL database
- (b) MongoDB favors XML format more than JSON
- (c) MongoDB is column-oriented database store
- (d) All of the mentioned

Answer

Option (a)

32. Which of the following format is supported by MongoDB?

- (a) SQL
- (b) XML
- (c) BSON
- (d) All of the mentioned

Show Answer

33. NoSQL was designed with security in mind, so developers or security teams don't need to Worry about implementing a security layer. Is it true or false?

- (a) True
- (b) False



Answer:
Option (b)

34. Which of the following is not a reason NoSQL has become a popular solution for some organizations?
- (a) Better scalability
 - (b) Improved ability to keep data consistent
 - (c) Faster access to data than relational database management systems (RDBMS)
 - (d) More easily allows for data to be held across multiple servers

Answer:
Option (b)

35. NoSQL prohibits structured query language (SQL). Is it True or False?
- (a) True
 - (b) False

Answer:
Option (b)

36. When is it best to use a NoSQL database?
- (a) When providing confidentiality, integrity, and availability is crucial
 - (b) When the data is predictable
 - (c) When the retrieval of large quantities of data is needed
 - (d) When the retrieval speed of data is not critical

Answer:
Option (c)

37. Which of the following companies developed NoSQL database Apache Cassandra?
- (a) LinkedIn
 - (b) Twitter
 - (c) MySpace
 - (d) Facebook

Answer:
Option (d)

38. NoSQL databases are most often referred to as:
- (a) Relational
 - (b) Distributed
 - (c) Object-oriented
 - (d) Network

Answer:
Option (b)

39. SQL databases are:
- (a) Horizontally scalable
 - (b) Vertically scalable



- (c) Either horizontally or vertically scalable
- (d) They don't scale

Answer:

Option (b)

40. Which of the following is not an example of a NoSQL database?

- (a) CouchDB
- (b) MongoDB
- (c) HBase
- (d) PostgreSQL

Answer:

Option (d)

41. _____ is a online NoSQL developed by Cloudera.

- (a) HCatalog
- (b) Hbase
- (c) Impala
- (d) Oozie

Answer:

Option (b)

42. Which of the following is not a NoSQL database?

- (a) SQL Server
- (b) MongoDB
- (c) Cassandra
- (d) None of the mentioned

Answer:

Option (a)

43. Which of the following is a NoSQL Database Type?

- (a) SQL
- (b) Document databases
- (c) JSON
- (d) All of the mentioned

Answer:

Option (b)

44. Which of the following is a wide-column store?

- (a) Cassandra
- (b) Riak
- (c) MongoDB



(d) Redis

Answer:

Option (a)

45. "Sharding" a database across many server instances can be achieved with _____
- (a) LAN
 - (b) SAN
 - (c) MAN
 - (d) All of the mentioned

Answer:

Option (b)

46. Most NoSQL databases support automatic _____ meaning that you get high availability and disaster recovery.
- (a) processing
 - (b) scalability
 - (c) replication
 - (d) all of the mentioned

Answer:

Option (c)

47. Which of the following are the simplest NoSQL databases?
- (a) Key-value
 - (b) Wide-column
 - (c) Document
 - (d) All of the mentioned

Answer:

Option (a)

48. _____ stores are used to store information about networks, such as social connections.
- (a) Key-value
 - (b) Wide-column
 - (c) Document
 - (d) Graph

Answer:

Option (d)

49. NoSQL databases is used mainly for handling large volumes of _____ data.
- (a) unstructured
 - (b) structured
 - (c) semi-structured
 - (d) all of the mentioned



Answer

Option (a)

50. Which of the following language is MongoDB written in?

(a) Javascript

(b) C

(c) C++

(d) All of the mentioned

Answer

Option (d)



Certificate Issued:





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Co-ord. Charge


(Dr. R. A. Muneshwar)
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Dean, Computer

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(UPEER, 2024) (UPEER, 2023) (UPEER, 2022) (UPEER, 2021) (UPEER, 2020)

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Course Coordinator


(Dr. R.A. Muneswar)
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(Recognized with 'A' Grade by NAAC, Accredited with 2024, 336 CPE Points)
(UPEER, 2024) (UPEER, 2023) (UPEER, 2022) (UPEER, 2021) (UPEER, 2020)

CERTIFICATE OF COURSE COMPLETION

•Certificate Course in Advanced RDBMS using SQL•

MANDURE BHUMESHWAR MAROTI

This is to certify that Mr./Miss.

has successfully Completed three month Certificate course in
"Advanced Database Administration Using (SQL)"
conducted by department of Computer Science from Jan to March 2024. We wish him/her
all the best for bright carrier and future.


(Mr. J. R. DUVE)
Course Coordinator


(Dr. R.A. Muneswar)
HOD, Dept. of Computer
Science


(Dr. D. U. Gawai)
Principal





**NANDED EDUCATION SOCIETY'S
SCIENCE COLLEGE, NANDED**

(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)
(NAAC Re-accredited "A" grade, CGPA 3.38, Recipient of DST-FIST, CPE Status)

CERTIFICATE COURSE

IN

Advanced Excel In Data Analysis

ORGANIZED BY

DEPARTMENT OF STATISTICS

Science College, Nanded

2023-24



Principal
N.E.S. Science College,
Nanded

Short Information of Course

Sr. No.	Criteria	Particulars
1.	Title of the Course	Certificate Course in Advanced Excel In Data Analysis
2.	Eligibility for Admission	Candidate who have Statistics Subject in B.Sc.
3.	Passing Marks	The candidate must obtain 40% of the total marks in theory and practical separately to pass the course.
4.	No. of Years/ Semester	Three month
5.	Level	College
6.	To be implemented from the Academic Year	From Academic year 2021-22



Convener
Mr. H. S. Puyed



Principal
Dr. D. U. Gawai
Principal
N.E.S. Science College,
Nanded

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PREAMBLE:

As we know that youth is struggling for recruitment, but today getting recruitment is become very struggle full, it is one of the responsibility of institution to help these youths for their recruitment. The students came from rural area are having good logical thinking and filled with potential and strength but they are not knowing about these skills in themselves. This course helps the students to improving their confidence level with the skills and practical knowledge and students will able to recruit themselves

In this contest, the Certificate Course “Certificate Course in **Advanced Excel In Data Analysis**” will start in Statistics Department.



OBJECTIVES OF THE CERTIFICATE COURSE:

- The main objective of this course is to provide basic knowledge of MS-Excel for Statistical Techniques to the students.
- The purpose of this course is to teach students to identify spreadsheet terminology and concepts, create formulas and functions, use formatting features, and generate charts, graphs, and reports. At the end of the course the students are expected to be able to successfully use the program to create spreadsheets, enter data, and maintain that data, you must have more than basic knowledge.
- This course gives you the advanced skills you need to be able to fully use the program.
- This course is design for the intermediate student who has already mastered the basic skills needed to use Excel and wants to gain Statistical Functions in MS-Excel to put to work in a business environment or for personal use.

COURSE OUTCOME:

- To Provide the basic Knowledge of MS-Excel for the Statistical Technique to the Students.
- To identify the spreadsheet terminology and concepts, create formulas and functions, use the formatting features and generate charts, graph and reports.



- To analyze the numerical data by using statistical tools and functions.

ORDINANCES FOR CERTIFICATE COURSE:

The Certificate Course in “Advanced Excel In Data Analysis” started with keeping view of “Career Oriented Certificate Course” will be covered under following ordinances.

1. Number of Students per batch are 25.
2. The admission/ examination shall be opened to any candidate who has Statistics Science as optional subject of this institute.
3. The candidate after passing examination will be awarded.
4. The supplementary examination shall be held in semester end or as fixed by the department.
5. Every candidate will be required to attend minimum of 75% lectures / periods delivered to that class.
6. The candidate must obtain 40% of the total marks in theory and practical separately to pass the course.
7. Candidates will be offered English as the medium of Instructions/ Examination.



SYLLABUS OF THE COURSE

(Course will be of 04 Credits; each Credit will have 15 hours)

Unit	Topic	Credit
I	Theory	II
II	Internal	
III	Practical	II
IV	Practical Internal	
	Total	IV Credit



COURSE STRUCTURE

Title of Course: Certificate Course in *Advanced Excel In Data Analysis*.

Marks - 100

Hours - 90

Duration: 3 Months

Specific Equipment's:

Computer, LCD, Projector, Visualizer and Smart Board.

Laboratory Equipment's:

1. A Well-furnished computer lab with sufficient computers.
2. Each Computer should have MS-Excel.
3. Battery Backup with UPS.
4. Internet facility.

Syllabus of the Course:

Unit-I: Introduction to MS-Excel:

Introduction, Navigating MS Excel, Cells, Rows, and Columns, Formulas, Sheet Tabs, Page Margins, Page Orientation, Page Breaks and Printing. Worksheets and Workbooks: Definition of Worksheets and Workbooks, Naming of Worksheets, Adding and Deleting Worksheets, Hiding/ Unhiding Worksheets, Hiding Columns and Rows, Saving Workbooks, saving an Existing File, Headers and Footers, Inserting, Deleting, copy and Renaming of Worksheets.

Unit-II: Entering & Editing Information:

Entering Data, Labels and Values, Copying Cells, Rows and Columns, Pasting Cells, Rows, and Columns, paste an Item from the Clipboard, Inserting and Deleting Rows and Columns, Filling



and Editing Cell Data, Find and Replace, Go To Cell Data, Locking Rows and Columns, Spell Check, AutoCorrect.

Unit 3: Formatting & Adding Elements to a Worksheet

Change Font Styles and Sizes, Adding Borders and Colors to Cells, change a Column Width, change a Row Height, Merge Cells, Applying Number Formats, Creating Custom Number Formats, Align Cell Contents, Cell Styles, Conditional Formatting, Freeze and Unfreeze Rows and Columns, Adding and Modifying Images, Removing A Background, Cropping and Rotating an image, compressing a Picture, Inserting AutoShapes, Adding WordArt, Clip Art, and a Hyperlink.

Unit-4:

Diagrammatic and Graphical representation by using MS- Excel, Introduction to R software, Basic functions of R, Input functions of R, Data frame, Diagrammatic and Graphical Representation by using R.

Recommended Books:

1. Kumar Bittu, Microsoft Office 2010.
2. Frag Curtis, Step by Step Microsoft Excel 2013.
3. John Walkenbach, 101 Excel 2013 Tips, Tricks and Time savers.
4. Salkind Neil J. Statistics for people who (Think They) Hate Statistics, Using MS- Excel.

Learning Outcomes:

1. Students are able to draw diagram and graphs by using MS-Excel.
2. Students are creating data sheet.
3. Students are analyzing data by using statistical formulae and functions.



Practical: (24 practical)

1) Perform following using MS-Excel

- i) Create Worksheet
- ii) Rename the worksheet
- iii) Hide the worksheet
- iv) Add and Delete the worksheet
- v) Save the worksheet

2) Perform following using MS-Excel

- i) Insert and Delete Row and Column
- ii) Hide Row and Column
- iii) Change Column width
- iv) Change Row height

3) Perform following using MS-Excel

- i) Page break
- ii) Page Margin
- iii) Header and Footer
- iv) Hiding Rows and Columns

4) Perform following using MS-Excel

- i) Change Font style
- ii) Fill and Border the cell
- iii) Header and Footer
- iv) Hiding Rows and Columns

5) Execute the following commands



- i) Find
 - ii) Replace
 - iii) Go To
 - iv) Spell Check
 - v) Copy and Paste
- 6) Perform following using MS-Excel
- i) Add Border and color to cell
 - ii) Add image
 - iii) Freeze and Unfreeze Row and Column
 - iv) Merge cell
- 7) Basic functions using MS-Excel-I (e.g. SUM, Count, arithmetic operators, etc).
- 8) Basic Functions using MS- Excel-II
- 9) Conditional logic functions.
- 10) Diagrammatic representation using MS-Excel
- 11) Graphical representation using MS-Excel- I.
- 12) Graphical representation using MS-Excel- II.
- 13) Sort data, Formula copy, and drag a formula.
- 14) Measures of Central Tendency –I (Individual data)
- 15) Measures of Central Tendency –II (using function)
- 16) Measures of Central Tendency –III (freq. dist.)
- 17) Measures of Dispersion-I (Individual data)
- 18) Measures of Dispersion-II (using function)
- 19) Measures of Dispersion-II (freq. dist.)
- 20) Measures of Moments, Skewness, Kurtosis (Individual data)



- 21) Measures of Moments, Skewness, Kurtosis (freq. dist.)
- 22) Input functions of R software
- 23) Diagrammatic representation by using R-SW
- 24) Graphical representation by using R-SW.

Learning Outcomes(Practical):

After completing the practical course students are getting knowledge about the MS- Excel, Students are able to draw diagram and graphs by using MS-Excel, as well as they write small programmed in R software for drawing diagram such as Bar Diagram, Pie Diagram and Graphs such as Histogram, Ogive curve etc.

Project course: for 24 periods and 2 credits Students are submitting project based on statistical analysis and graphical- diagrammatic representation on statistical data.



Modality of Assessment

Theory – 50 Marks

Practical – 50 Marks

Duration – The Examination shall be of 1 hour duration.

Theory question paper pattern

- 1) Multiple choice objective Exam of 40 marks covering all above syllabus will be conducted.
- 2) Terms for Practical Examination:

Sr. No.	Particulars	Marks
1)	Practical Exam	30
2)	Skill Acquired	10
3)	Viva	10

Programme of the course

- 1) The candidate require to attend 75% lectures/ periods
- 2) The Candidate must obtain 40% of the total marks in theory and practical
- 3) Candidate will be offer English/ Marathi as a Medium of Instructions/ Examination

Eligibility

Candidates should be B.Sc. 1 year passed with Statistics optional subject.



N.E.S. Science College Nanded
PG Department of Statistics
 Name of the Certificate Course: Advanced Excel In Data Analysis
 Student List enrolled in certificate course
 2023-24

Sl. No.	Name of Student	Seat No.	Signature
1	SUMAYYA KHATOON MOHAMMED ILYAS	AB4001	<i>Illyas</i>
2	JADHAV SHITAL DEVRAO	AB4002	<i>Shital</i>
3	HONALE AKANKSHA PRADEPRAO	AB4003	<i>Akanksha</i>
4	RASHMI LAXMANRAO LOHHAND	AB4004	<i>Rashmi</i>
5	HENTE SUPRIYA NAGNATH	AB4005	<i>Supriya</i>
6	SONATAI SHANKAR WAGHMARE	AB4006	<i>Sonatai</i>
7	ANAMIKA SANJAY KURUDE	AB4007	<i>Anamika</i>
8	SABLE ASTIVINA RAGHUNATH	AB4008	<i>Ashita</i>
9	RATHOD RANI DILIP	AB4009	<i>Rani</i>
10	KADAM SWARUPA SHIVAJI	AB4010	<i>Kadamb</i>
11	SOHIA ANAM ATIF AHMED	AB4011	<i>Sohia</i>
12	JADHAV SNEHA SURESH	AB4012	<i>Jadav</i>
13	SHIVANI RAJKUMAR MASJE	AB4013	<i>Shivani</i>
14	CHAUDHAD PRADIP	AB4014	<i>Pradip</i>
15	JADHAV ROHINI	AB4015	<i>Rohini</i>
16	AKSHAY SHARAD SHIRSAI	AB4016	<i>Akshaya</i>
17	VISHAKHA WAGHMARE	AB4017	<i>Vishakha</i>
18	SAMIKSHA BASWARAJ	AB4018	<i>Samiksha</i>
19	KHANEADA SHAEIKH	AB4019	<i>Phaneda</i>
20	RAUT SALONI PRAMOD	AB4020	<i>Raut</i>
21	RANI PRABHU KHADE	AB4021	<i>Rani</i>
22	TARTE RAMA SHAMBAO	AB4022	<i>Rama</i>
23	MANSI MANDIKUMAR GIMKAR	AB4023	<i>Mansi</i>
24	HONALE RUTUJA RAMDAS	AB4024	<i>Rutuja</i>
25	CHAVAN SWATI ANKUSH	AB4025	<i>Swati</i>

Praveer
Exam Coordinator



N.E.S. Science College Nanded
PG Department of Statistics

Name of the Certificate Course: Advanced Excel In Data Analysis
Student List enrolled in certificate course
2023-24

Sl. No.	Name of Student	Seat No.	Signature
1	SUMAYYA KHATUN MOHAMMED ILYAS	AB4001	
2	JADHAV SHITAL DEVRAO	AB4002	
3	BHOSLE AKANKSHA PRADIPRAO	AB4003	
4	RASHMI LAXMANRAO LOKHAND	AB4004	
5	HENTE SUPRIYA NAGNATH	AB4005	
6	SONATAI SHANKAR WAGHMARE	AB4006	
7	ANAMIKA SANJAY KURUDE	AB4007	
8	SABLE ASHWINA RAGHUNATH	AB4008	
9	RATHOD RANI DILIP	AB4009	
10	KADAM SWARUPA SHIVAJI	AB4010	
11	SOBIA ANAM ATIF AHMED	AB4011	
12	JADHAV SNEHA SURESH	AB4012	
13	SHIVANI RAJKUMAR MASKE	AB4013	
14	CHAULWAD PRADIP	AB4014	
15	JADHAV ROHINI	AB4015	
16	AKSHAY SHARAD SHIRSAT	AB4016	
17	VISHAKHA WAGHMARE	AB4017	
18	SAMIKSHA BASWARAJ	AB4018	
19	KHANEADA SHAEIKH	AB4019	
20	RAUT SALONI PRAMOD	AB4020	
21	RANI PRABHU KILADE	AB4021	
22	TARTE RAMA SHAMRAO	AB4022	
23	MANSI MANOJKUMAR GIMEKAR	AB4023	
24	HONALE RUTUJA RAMDAS	AB4024	
25	CHAVAN SWATI ANKUSH	AB4025	


Exam Coordinator



Nanded Education Societies
Science College Nanded,
Department of Statistics
CERTIFICATE COURSE EXAMINATION
May 2023

(Certificate Course in Advanced Excel in Data Analysis).

Time: 10.00am. to 12.00pm

(Date: 10-05-2023)

Max marks: 100

Note:

1. All Questions are compulsory.
2. Each questions Carry equal marks.
3. No Negative marking for wrong answers.

1. Excel is a ____ program developed by Microsoft.

- A. Spreadsheet
- B. Document
- C. Data management
- D. All of the above

2. What is the extension of a Microsoft Excel file?

- A. msxcl
- B. xcl
- C. xltx
- D. xlsx

3. What is the default file name of Microsoft Excel file?

- A. Workbook.xlsx
- B. Workbook1.xlsx
- C. Worksheet.xlsx
- D. Worksheet1.xlsx

4. Shortcut key CTRL + D is used to ____.

- A. Open font dialog box
- B. Open format cells dialog box
- C. Shift current cell's value in the right cell
- D. Fill down in the selection

5. Microsoft Excel is used for?

- A. Analysis
- B. Data Entry
- C. Data Management
- D. Accounting



- E. Budgeting
- F. All of the above

6. What is the collection of worksheets called?

- A. Ledger
- B. Book
- C. Textbook
- D. Workbook

7. The total number of rows in a worksheet?

- A. Unlimited
- B. 65,535
- C. 1,048,576
- D. 1,068,576

8. The total number of columns in a worksheet?

- A. 26
- B. 256
- C. 12,834
- D. 16,384

9. What is the column width in a worksheet?

- A. 26 characters
- B. 128 characters
- C. 255 characters
- D. 256 characters

10. The total number of characters that a cell contains is?

- A. 32,767 characters
- B. 32,768 characters
- C. 65,535 characters
- D. 1,32,767 characters

11. How many hyperlinks can be there in a worksheet?

- A. 32,767
- B. 32,768
- C. 65,530
- D. 65,535

12. How many times undo levels can be used in a worksheet?

- A. 25
- B. 50
- C. 75



D. 100

13. How many users can open the Excel file at the same time?

- A. 64 users
- B. 128 users
- C. 256 users
- D. 512 users

14. The intersection of a column and a row in a worksheet is called ____.

- A. Box
- B. Cell
- C. Range
- D. Page Break

15. The fill function can be ____ to complete formulas in a range.

- A. Single clicked
- B. Double-clicked
- C. Triple clicked
- D. Right clicked

16. Which logical function returns TRUE if all arguments evaluate TRUE; FALSE if not?

- A. OR
- B. AND
- C. IF
- D. ANDIF

17. Which logical function returns TRUE if one or more arguments evaluates to TRUE; FALSE if all arguments evaluate to FALSE?

- A. OR
- B. AND
- C. IF
- D. ANDIF

18. The Excel ____ function returns the Boolean value FALSE.

- A. TRUEFALSE (0)
- B. FALSE ()
- C. Both of the above
- D. There is no such function

19. What is the correct syntax of IF () function?

- A. =IF (logical_test, [[value_if_true]], [[value_if_false]])
- B. =IF (logical_test, TRUE)[value_if_true][value_if_false]



- C. =IF (logical_test; [value_if_true]; [value_if_false])
- D. =IF (logical_test; [value_if_true]; [value_if_false])

20. Which function is used to trap and handle errors?

- A. IFERROR ()
- B. ERROR ()
- C. IFNA ()
- D. IFTRAP ()

21. Which function is used to trap and handle #N/A errors?

- A. IFERROR ()
- B. ERROR ()
- C. IFNA ()
- D. IFERRORNA ()

22. Which function is used to get a date n working days in the future or past?

- A. WORKDAY ()
- B. DAY ()
- C. WORKDATE ()
- D. DAYM ()

23. Which function is used to match multiple values and returns the first match?

- A. IF ()
- B. IFS ()
- C. IIF ()
- D. SWITCH ()

24. Which function is used to create a date with year, month, and day?

- A. DATE ()
- B. DATEDIF ()
- C. DATEVALUE ()
- D. CURDATE ()

25. Which function is used to get days, months, or years between two dates?

- A. DATE ()
- B. DATEDIF ()
- C. DATEVALUE ()
- D. CURDATE ()

26. What is the keyboard shortcut to insert a SUM formula in MS Excel?



- A. CTRL + =
- B. ALT + =
- C. ALT + S
- D. CTRL + ALT + =

27. What is the keyboard shortcut to switch between open Excel windows?

- A. CTRL + TAB
- B. ALT + TAB
- C. CTRL + ALT + TAB
- D. None of the above

28. What is the keyboard shortcut to display the Format Cells dialog box in MS Excel?

- A. CTRL + F
- B. ALT + I
- C. CTRL + SHIFT + F
- D. CTRL + I

29. What is the keyboard shortcut to copy the value from the cell above the active cell into the cell or the Formula Bar in MS Excel?

- A. CTRL + SHIFT + C
- B. CTRL + ALT + ^
- C. CTRL + SHIFT + ^
- D. ALT + SHIFT + ^

30. What is the keyboard shortcut to copy a formula from the cell above the active cell into the cell or the Formula Bar in MS Excel?

- A. CTRL + ' (apostrophe)
- B. ALT + ' (apostrophe)
- C. CTRL + ALT + ' (apostrophe)
- D. CTRL + SHIFT + F

31. What is the keyboard shortcut to view formulas instead of values in MS Excel?

- A. CTRL + ' (apostrophe)
- B. ALT + ' (apostrophe)
- C. CTRL + ALT + ' (apostrophe)
- D. CTRL + SHIFT + F

32. Which symbol is used to specify the fixed columns or rows in the formula?

- A. =
- B. *
- C. \$
- D. %

33. The currently selected cell address is displayed in _____.



- A. Name Box
- B. Formula Bar
- C. Both A and B
- D. None of the above.

34. Which programming language is used to write a Macro in MS Excel?

- A. C
- B. C++
- C. Java
- D. Visual Basic

35. What is the correct value of the function? =ROUND (1.2345,2)

- A. 24
- B. 23
- C. 25
- D. 2

36. What is the correct value of the function? =ROUND (1.9867,2)

- A. 1.98
- B. 1.99
- C. 2
- D. 1.00

37. In MS Excel, 'Merge and Center' is used to ____.

- A. Combine and center the content of the selected cell
- B. Combine and center the content of the current row
- C. Concatenate the text of the two cells and returns the text
- D. None of the above

38. Which feature is used to wrap extra-long text into multiple lines in MS Excel?

- A. Word Wrap
- B. Letter Wrap
- C. Text Wrap
- D. Wrap Text

39. Which keyboard shortcut is used to apply 'Wrap Text' on the selected text?

- A. Ctrl + H + W
- B. Alt + W + H
- C. Alt + H + W
- D. Alt + W

40. Which feature is used to rotate the text diagonally or vertically of the selected cells in MS Excel?



- A. Orientation
- B. Text Layout
- C. Text Flip
- D. Cell Orientation

41. Steps for protecting a sheet by password in MS Excel?

- A. Under the Review Tab, Click on Protect Current Sheet
- B. Under Insert Tab, Click on Protect Sheet
- C. Under Data Tab, Click on Protect Sheet
- D. Under the Review Tab, Click on Protect Sheet

42. Under which Tab, the chart options are available in MS Excel?

- A. Data
- B. Insert
- C. Review
- D. View

43. Which chart type is used to visually compare values across a few categories?

- A. Area Chart
- B. Bar Chart
- C. Doughnut Chart
- D. Hierarchy Chart

44. Which chart type is used to show trends over time and categories?

- A. Area Chart
- B. Bar Chart
- C. Doughnut Chart
- D. Hierarchy Chart

45. Which chart type is used to show the proportions of a whole?

- A. Area Chart
- B. Bar Chart
- C. Doughnut Chart
- D. Hierarchy Chart

46. Which is not a Text function in MS Excel?

- A. CODE ()
- B. CLEAN ()
- C. CHAR ()
- D. DB ()

47. Which Excel function is used to get the discount rate for security?

- A. DISCOUNT ()



- B. DISC ()
- C. DSC ()
- D. PERC ()

48. What is the keyboard shortcut to insert a new comment in a cell in MS Excel?

- A. F2
- B. Ctrl + F2
- C. Alt + F2
- D. Shift + F2

49. What is the keyboard shortcut to insert a new sheet in the current workbook in MS Excel?

- A. Shift + F9
- B. Shift + F10
- C. Shift + F12
- D. Shift + F11

50. Which option allows you to display all numbers which are less than 0 (negative numbers) in red color in MS Excel?

- A. Styling
- B. Conditional Formatting
- C. Compare Formatting
- D. Special Formatting

51. Under which menu, we can insert Header and Footer on the sheet?

- A. Format
- B. Review
- C. Data
- D. Insert

52. Show/Hide Gridlines option is available in the ____ Menu.

- A. Page Layout
- B. Data
- C. Insert
- D. Format

53. Which function is used to get the location of text in a string in MS Excel?

- A. FIND ()
- B. INDEX ()
- C. SEARCH ()
- D. STRINGSEARCH ()

54. The ____ function is used to convert to text in a number format in MS Excel.



- A. CONVERT ()
- B. TEXT ()
- C. NUM ()
- D. CONVERTTEXT ()

55. Which function is used to remove extra spaces from the text in MS Excel?

- A. REMOVE ()
- B. TRIM ()
- C. TRUNC ()
- D. All of the above

56. Which is the correct syntax of the HEX2BIN () function in MS Excel?

- A. =HEX2BIN (number, [places])
- B. =HEX2BIN (number)
- C. =HEX2BIN (number, BASE, [places])
- D. =HEX2BIN (number, BASE)

57. Which function is used to find the sum of complex numbers in MS Excel?

- A. SUM ()
- B. ADD ()
- C. CSUM ()
- D. IMSUM ()

58. Which option displays the total number of cells, formulas, charts, tables, sheets, etc. in a Workbook?

- A. Workbook Statistics
- B. Statistics
- C. Excel Statistics
- D. Workbook Analysis

59. Which option is used to hide/show the Headings in MS Excel?

- A. View Menu > Show Group > Headings
- B. View Menu > Show Group > Gridlines
- C. View Menu > Show Group > Headers
- D. View Menu > Show Group > Titles

60. Which option is used to quickly convert a range of cells to a table with its own style converted in MS Excel?

- A. Table Styles
- B. Stylish Cells
- C. Format as Table
- D. Cells as Table



1. How to remove borders applied in Cells?

1. Select None on Border tab of Format cells
2. Open the list on Border tool in Format Cell toolbar then choose first tool (none)
3. Both of above
4. None of above

2. _____ is not a valid data type in MS-Excel.

1. Number
2. Character
3. Label
4. Date/ Time

3. What is MS Excel?

1. Spreadsheet
2. Database Management
3. Presentation
4. Workbook

4. What is the row limit of MS Excel 2019?

1. 4,81,0576
2. 1,048,576
3. 1,57,648
4. 1,63, 84

5. In Microsoft Excel spreadsheets, rows are designated as _____.

- A. 1, 2, 3,
- B. A, B, C,
- C. A1, B1, C1,
- D. I, II, III,

6. _____ logical function indicates TRUE only if all arguments are assessed as TRUE, and FALSE otherwise.

- A) OR
- B) AND
- C) IF
- D) ANDIF

7. The intersection of a column and a row in a worksheet is called _____

1. Column
2. Address
3. Value



4. Cell

8. The Greater Than sign (>) exemplifies a/an _____ operator.

1. Arithmetic
2. Conditional
3. Logical
4. Greater

9. _____ is the correct syntax of IF () Function.

1. =IF (logical_test, TRUE{[value_if_true]}, FALSE{[value_if_false]})
2. =IF (logical_test, [value_if_true], [value_if_false])
3. =IF (logical_test, {[value_if_true]}, {[value_if_false]})
4. =IF (logical_test: [value_if_true], [value_if_false])

10. _____ is the function used to match multiple values and returns the first match in Windows/ MAC (if you have Office 2019, or if you have a Microsoft 365 subscription)

- A) IF ()
- B) IFS ()
- C) IIF ()
- D) SWITCH ()

11. _____ type of chart is good for a single series of data.

1. Column chart
2. Cone chart
3. Line chart
4. Pie chart

12. What do Excel formulas start with?

- A) /
- B) f
- C) =
- D) -

13. Name the keyboard shortcut to use to switch between open Excel windows.

- A) CTRL + TAB
- B) ALT + TAB
- C) CTRL + ALT + TAB
- D) None of the above

14. Name the keyboard shortcut used to copy the value from the cell above the active cell into the cell or the Formula Bar in MS Excel _____



1. CTRL + SHIFT + C
2. CTRL + SHIFT + "
3. ALT + SHIFT + "
4. CTRL + ALT + "

15. What is an Excel feature that displays only the data in column (s) according to specified criteria?

1. Filtering
2. Sorting
3. Formula
4. Pivot

16. ____ is not a function in Excel.

1. SUM
2. MIN
3. SUBTRACT
4. MAX

17. ____ Excel function returns TRUE or FALSE based on two or more conditions

1. =AVERAGEIFS
2. =CONCAT
3. =COUNTA
4. =AND

18. Why is the =COUNTIF function in Excel used?

1. Counts cells as specified
2. Counts blank cells in a range
3. Counts cells with numbers in a range
4. Returns values based on a TRUE or FALSE condition

19. What is the =NPV in Excel used for?

The NPV function is used to calculate the Net Present Value (NPV).

20. Which Excel function removes irregular spacing, leaving one space between each value?

The =TRIM function in Excel is used to remove irregular spacing, leaving one space between each value.

21. Which are the two ways to access the styling commands in Excel?

1. The Ribbon
2. Formatting menu, by right clicking cells



22. What is the COUNT () function in Excel normally used for?

The COUNT () is generally used to count a range of cells containing numbers or dates excluding blank cells and text.

23. For what is the \$ symbol used along with the cell address in Excel?

The \$ symbol is used to specify the fixed columns or rows in the formula.

24. What happens when you click on CTRL + X after selecting some cells in Excel?

1. The cell content of selected cells disappears from cell and stored in clipboard.
2. Value in the cells selected are marked for cutting
3. The selected cells are deleted and the cells are shifted left
4. The selected cells are deleted and cells are shifted up

25. ___ is the programming language used to write a Macro in MS Excel.

1. Visual basic
2. C+
3. Java
4. C++

26. Why is the "wrap text" feature used in MS Excel?

The 'Wrap Text' function in MS Excel is used to break down lengthy text into multiple lines by increasing the row height, ensuring complete visibility of the content.

27. In MS Excel, the keyboard shortcut "Ctrl+S" can be used to _____

1. Save As
2. Save
3. Start new workbook
4. Switch between opened tab

28. Which keyboard shortcut is used to easily switch open workbooks?

1. Alt+S
2. CTRL+S
3. CTRL+Alt
4. CTRL+Tab

29. ___ happens when you select a cell in MS Excel and type "=B25"

1. Selected cell will show an error message
2. Selected cell will show "=B24"
3. Selected cell will show the same value as in B25
4. Selected cell will be blank

30. For what is the Orientation feature used in MS Excel?

In MS Excel, the 'Orientation' function allows you to tilt or vertically align text within the chosen cells.



Mark List:

Nanded Education Societies
Science College Nanded,
Department of Statistics
Mark LIST
CERTIFICATE COURSE EXAMINATION
(Certificate Course in SQL)
May 2023

Sr. No.	Name of Student	Seat No.	Marks obtained out of 100
1	SUMAYYA KHATOON MOHAMMED ILYAS	AB1001	98
2	JADHAV SUHAIL DEVRAO	AB1002	98
3	BHOSLE AKANKSILA PRADIPRAO	AB1003	92
4	RASHMI LAXMANRAO LOKHAND	AB1004	98
5	HENTE SUPRIYA NAGNATH	AB1005	92
6	SONATAI SHANKAR WAGHAMARE	AB1006	85
7	ANAMIKA SANJAY KURUDE	AB1007	94
8	SABLE ASHVINA RAGHUNATH	AB1008	94
9	RATHOD RANI DILIP	AB4009	90
10	KADAM SWARUPA SHIVAJI	AB40010	97
11	SOBIA ANAM ATIF AHMED	AB40011	95
12	JADHAV SNEHA SURESH	AB40012	85
13	SHIVANI RAJKUMAR MASKE	AB40013	87
14	CHALUWAD PRADIP	AB40014	89
15	JADHAV ROHINI	AB40015	88
16	AKSHAY SHARAD SHIRSAT	AB40016	86
17	VISHAKHA WAGHAMARE	AB40017	84
18	SAMIKSHA HASWARAJ IKALE	AB40018	94
19	RAGINI VILAS DESHMUKH	AB40019	91
20	RAUT SALONI PRAMOD	AB40020	92
21	RANI PRAHNU KHADÉ	AB40021	93
22	YARTE RAMA SHAMIRAO	AB40022	97
23	MANSI MANOJKUMAR GIMEKAR	AB40023	89
24	BONALE RUTUJA RAMDAS	AB40024	90
25	CHAVAN SWATI ANKUSH	AB40025	88



Photo of students during Examination;



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(Affiliated to Swami Ramkrishna Teerth Maharashtra University, Nanded)
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DET - FIET, NIRF-72 (Year 2017) Best College Award of SRTNU Nanded



CERTIFICATE

Certificate Course in

Advance Excel in Data Analysis

This is to certify that Mr./Miss

RAGINI VILAS DESHMUKH

has successfully Completed three month Certificate course in

Advance Excel in Data Analysis conducted by Department of Statistics from

1 Jan to 31 March 2024. We wish him/her all the best for bright carrier and future.

Mr. H. S. Puyed
Course Coordinator

Dr. R. A. Muneshwar
Head of Department

Dr. D. U. Gawal
Principal

