J.M.J. COLLEGE FOR WOMEN
Estd. 1963 (AUTONOMOUS) TENALI
Hearty Welcome

SOFT SKILLS

LANGUAGE AND COMMUNICATION SKILLS

Life Skills

5.1.3. FOLLOWING CAPACITY DEVELOPMENT AND SKILLS ENHANCEMENT ACTIVITIES ARE ORGANIZED FOR IMPROVING STUDENTS' CAPABILITY.

1. SOFT SKILLS   2. LANGUAGE AND COMMUNICATION SKILLS

3. LIFE SKILLS   4. AWARENESS OF TRENDS IN TECHNOLOGY

JMJ COLLEGE FOR WOMEN (AUTONOMOUS)

TENALI - 522202, GUNTUR (Dt), A.P.
PRIVATE AIDED – MINORITY INSTITUTION
Recognized Under Section 2(f) & 12(b) by New Delhi
Re-Accredited by NAAC with B++ Grade (Cycle - IV)
(An Autonomous College in the Jurisdiction of AcharyaNagarjuna University)

Criteria - V

Metric – 5.1.3

Programmes Conducted to give Awareness about Trends in Technology for the Academic Year 2022 - 23

5.1.3

Programmes Conducted on
Awareness of Trends in Technology
For the Academic Year 2022-2023

S. No	Name of the Activity	Date	No. of students Participated
1.	Research Trends, job Opportunities and Quality in Global Education- Guest Lecture	02-04-2023	80
2.	Awareness on Entrepreneurship development Programme	04-02-2023	48
3.	Machine Learning- Certificate Course	10-12-2022 to 23-04-2023	101
4.	C with Graphics- Certificate Course	10-12-2022 to 23-04-2023	101
5.	Cut Flower Technology- Certificate Course	03-01-2023 to 30-03-2023	40
6.	Seed Technology - Certificate Course	03-01-2023 to 30-03-2023	32
7.	Artificial Intelligence - Certificate Course	02-08-2022 to 29-11-2022	101
8.	Programming in C- Certificate Course	02-08-2022 to 29-11-2022	101

Principal

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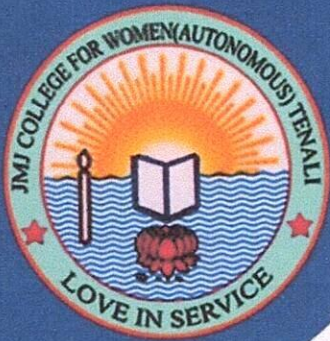**Ph: 08644 225994**

Ref: JMJ/CDSE/2022-23   Date: 31.03.2023
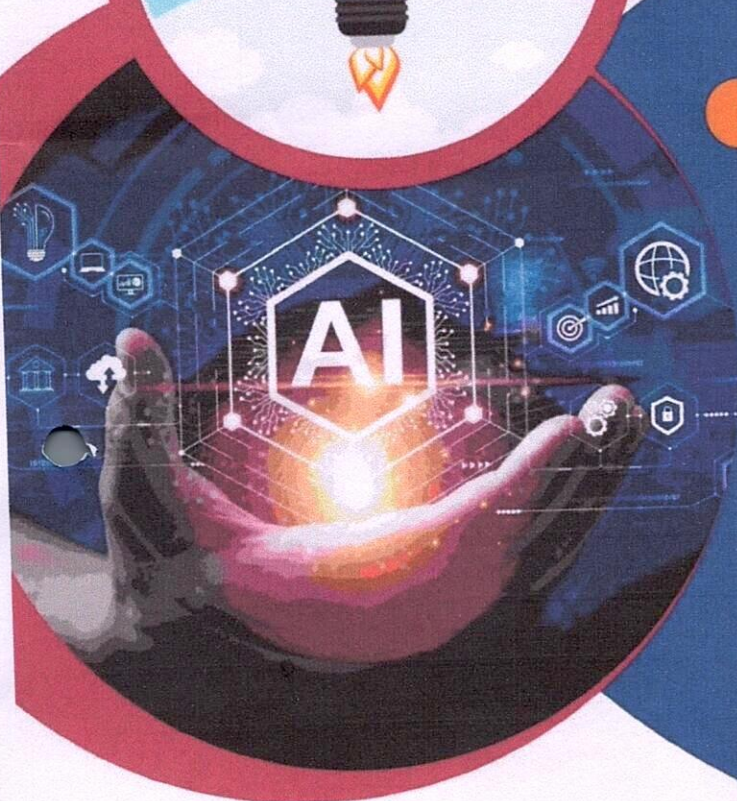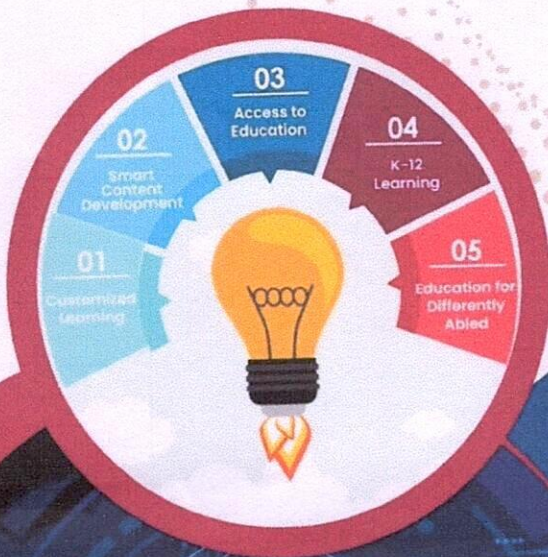
CIRCULAR

This is to inform you that the Department of Physics is going to organize a guest

lecture **on "Research Trends, job Opportunities and Quality in Global Education" by**

Dr.Rajkumar Vutukuri, Post-Doctoral fellow, University of Frankfurt, Germany to all III

B.Sc. students on **02.04.2023** in MBA seminar hall of our college.

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JMJ COLLEGE FOR WOMEN(AUTONOMOUS) TENALI
LOVE IN SERVICE

RESEARCH TRENDS, JOB OPPORTUNITIES & QUALITY IN GLOBAL EDUCATION

01 Customized Learning
02 Smart Content Development
03 Access to Education
04 K-12 Learning
05 Education for Differently Abled

AI

Resource Person:
Dr. Rajkumar Vutukuri,
Post – Doctoral Fellow, University of Frankfurt, Germany.

Organized by:
Department of Physics

Date: 02-04-2022
Time: @11AM
Venue: JMJ College For Women

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TENALI - 522 202.

📞 08644-227994   ⊕ @jmjcollege.ac.in   📍 Tenali

JMJ COLLEGE FOR WOMEN (A), TENALI

REPORT

Activity: Research Trends, Job Opportunities and Quality in Global Education

Date: 02.04.2023

No. of Participants: 80

Department of Physics organized a Guest Lecture on the topic **"Research trends, job opportunities and quality in global education"** on **02.04.2023** in MBA seminar hall of our college by **Dr.Rajkumar Vutukuri, Post-Doctoral fellow, University of Frankfurt, Germany.** He explained various job opportunities even in India, in abroad and about the research trends in various fields of Physics. The entire physics faculty and 80 III BSc (MPC, MPC's) students attended this guest lecture.

Outcome: Students are benefited by the valuable lecture on Research trends, job opportunities and quality in global education.

Tenali, AP, India
SH 261, Tenali, Tenali, 522201, AP, India
Lat 16°14'25.8693"N, Long 80°36'58.3559"E
02/04/2023 14:54 GMT+05:30

Dr.V.Rajkumar enlightening the students on Job Opportunities and Quality in Global Education

Principal

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TENALI - 522 202.

Department of Physics-Guest Lecture
"Research trends,job oppurtunities and quality in global education" on 09-4- 2023

S.No	Name of the student	Regd.No	Signature of the student
1.	BHATTU SANDHYA	J20A31131	B. Sandhya.
2.	EDULAMUDI SRAVANI	J20A31132	E. sravani
3.	GANTA SANTHI	J20A31133	G. Santhi
4.	GOVINDU BINDU MADHAVI	J20A31134	G. Bindhu madhavi
5.	INUMUKKALA ANUSHA	J20A31135	I. Anusha.
6.	KANCHARLA ANANDA KUMARI	J20A31136	K. Ananda Kumari
7.	KONDETI PAVITHRA	J20A31137	K. Pavithra
8.	KUNCHAPU KAVERI	J20A31138	K. Kaveri
9.	MULLAPUDI PRASANNA	J20A31139	M. Prasanna.
10.	MUNIPALLI VIVEKA	J20A31140	N. Rupa Devi
11.	NALLURI RUPA DEVI	J20A31141	N. Rupa Devi.
12.	NEELA SOUNDARYA	J20A31142	N. Soundarya
13.	PARIMI INDIRA	J20A31143	R. Indira.
14.	RAVURI PAVITHRA	J20A31144	R. Pavithra
15.	UDUMULA SWEETI	J20A31146	U. Sweeti
16.	UPPALA TANMAI	J20A31147	U. Tapaswi U. Tanmai
17.	UPPALA TAPASWI	J20A31148	U. Tapaswi
18.	YADAMREDDY KAVYA	J20A31149	Y. Kavya
19.	YARAGALLA LAVANYA	J20A31150	Y. Lavanya.
20.	ANUHYA BORUGADDA	J20A31151	B. Anuhya.
21.	PEDAPUDI SUJITHA	J20A31171	P. Sujitha
22.	ADIPI SNEHA LATHA	J20A31201	A. Sneha Latha.
23.	AKKALA VEDAVATI	J20A31202	A. Vedavathi
24.	AMARTHALURI LAKSHMI PRASANNA	J20A31203	A. Lakshmi Prasanna
25.	BETHAMCHARLA VENKAYAMMA	J20A31204	B. venkayamma
26.	BOLLAPALLI AKHILA	J20A31205	B. Akhila
27.	CHERUKURI DIVYAJYOTHI	J20A31206	CH. Divya Jyothi
28.	CHIMATA TRIVENI	J20A31207	C. Triveni
29.	CHINTABATTINI SUPRIYA	J20A31208	CH. Supriya.
30.	DARLA MARTHAMMA	J20A31209	D. Marthamma
31.	DASARI NANDINI	J20A31210	D. Nandini
32.	DASARI SRAVANTHI	J20A31211	D. Sravanthi

33.	DEVARAPALLI DEEPTHI	J20A31212	D. Deepthi
34.	ELICHERLA SRAVYA	J20A31213	E. Sravya
35.	GADDAM MANASA DEVI	J20A31214	G. Manas Devi
36.	GAIRUBOYINA VENKATA SRAVANI	J20A31215	G. Venkata sravani
37.	GALI MYDHILI	J20A31216	G. Mydhili
38.	GOLLAPALLI DIVYA	J20A31217	G. Divya
39.	GUNTURU ANUSHA	J20A31218	G. Anusha
40.	GYRUBOINA DHANA LAKSHMI	J20A31219	G. Dhana lakshmi
41.	JONNA LAVANYA	J20A31223	J. Lavanya.
42.	KANDULA SITAMMA	J20A31224	K. Sitamma
43.	KARRI VASAVI	J20A31225	k. Vasavi
44.	KATI HEPSIBA	J20A31226	K. Hepsiba.
45.	KATTUPALLI USHA DEVI	J20A31227	k. Usha Devi
46.	KATTUPALLI VINSI	J20A31228	k. Vinsi
47.	KAVURI SUMATHI	J20A31229	k. Sumathi
48.	KODE TIRUMALA	J20A31230	K. Tirumala
49.	KONAKALA VENKAYAMMA	J20A31231	k. Venkayamma
50.	KONDA VARALAKSHMI	J20A31232	k. Varalakshmi
51.	KONKA PRASANTHI KUMARI	J20A31233	k. Prasanthi kmari
52.	KONKA SATHVIKA	J20A31234	k. Sathvika
53.	KUKKALA SUPRAJA	J20A31235	k. Supraja
54.	KUKKALA YASASWI	J20A31236	k. Yasashwi
55.	KURAPATI MANASA	J20A31237	k. Manasa
56.	MEKA SASIKALA	J20A31244	M. Sasikala
57.	MORLA VENKATA PUSHPA	J20A31245	M. Venkata Pushpa
58.	MUDIGONDLA ARUNA KUMARI	J20A31246	M. Aruna kumari
59.	MUKKALA PRARDHANA SAGARI	J20A31247	M. Prardhana sagari
60.	NALLUREE KAVYA	J20A31248	N. Kavya.
61.	NANNEPAMU VANAJA KOKILA	J20A31249	N. Vanja kokila
62.	NEMALIKANTI PRASANNA	J20A31250	N. Prasanna
63.	NOOR BASHA GOWSIYA	J20A31251	N. Gowsiya.
64.	NOORBASHA ANEESHA BEGUM	J20A31252	N. Anneesha Begum
65.	NUTHAKKI RENUKA	J20A31253	N. Renuka
66.	NUTHALAPATI SUBHASHINI	J20A31254	N. Subhasini
67.	PATHAN RIHANA	J20A31255	P. Rihana.

68.	PULI MADHAVI	J20A31260	P. Madhavi
69.	RAYAPUDI LAVANYA	J20A31261	R. Lavanya
70.	SEELAM ANURADHA	J20A31262	S. Anuradha
71.	SEKURI SOWMYASRI	J20A31263	S. Sowmya Sri
72.	SIDDELA JWALITHA	J20A31264	S. Jwalitha.
73.	SINGAM SETTY SANDHYA RANI	J20A31265	S. Sandhya Rani
74.	THANNIRU VASANTHI	J20A31270	T. Vasanthi
75.	THATAVARTHI KAVYA SRI	J20A31271	T. Kavya Sri
76.	THIRUVEEDULA PAVANI	J20A31272	T. Pavani
77.	TULLIBILLI VENKATA BHAVANI	J20A31273	T. Venkata Bhavani
78.	TURAKA MOUNIKA	J20A31274	T. Mounika
79.	URITI KEERTHI	J20A31275	U. Keerthi
80.	VALIVETI VINEKHA	J20A31276	V. Vinekha

C. M. Asta
HoD

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Ph: 08644 225994

Ref: JMJ/CDSE/2022-23   Date: 28-01-2023

CIRCULAR

This is to inform you that the Department of Commerce is going to organize an

Entrepreneur ship awareness programme, for this purpose the department took all the final

year students to visit some of retail shops like Book stalls, cloths stalls, shoes store, and cell

phone shops in Tenali town on 04-02-2023 at 3:00 pm.

All the III B.Com Students must participate in the activity without fail.

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TENALI

REPORT

Activity: Entrepreneur ship awareness programme

Date: 04-02-2023

No. of benefitted students: 48

The Department of Commerce organized an **Entrepreneurship Awareness Programme** on February 4, 2023, at 3:00 PM to instill knowledge among students about becoming future entrepreneurs. As part of this initiative, all final-year students visited various retail shops in Tenali town, including book stalls, clothing stores, shoe stores, and mobile phone shops.

During the visit, students gained insights into starting a business, the necessary documents and registration forms, and the government support available for new entrepreneurs. This hands-on experience helped them understand the practical aspects of running a business.

The students were accompanied by Dr. M. Sambasivudu, Dr. G. Sudhakariah, and M. Vanaja, who guided and assisted them throughout the visit. The programme provided valuable exposure to real-world business operations, inspiring students to explore entrepreneurship as a career path. Students divided into three groups for thorough observation at different shops. A total of 48 students benefitted by the activity.

Dr. M. Sambasivudu, HoD, Commerce & Mrs. M. Vanaja, helping students at shops to explore entrepreneurship as a career through the activity.

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JMJ COLLEGE FOR WOMEN (A), TENALI

"Entrepreneurship Awareness Programme"

Date: 04-02-2023

List of Participants:

S. No	Regd. No	Name of the Student	Program	Signature
1.	J20A21001	Annavarapu Prathima	III B.Com	A. Prathima
2.	J20A21002	Aramalla Hadassa	III B.Com	A. Hadassa
3.	J20A21004	Bathula Swathi	III B.Com	B. Swathi
4.	J20A21005	Bethapudi Chinnammai	III B.Com	B. Chinnammai
5.	J20A21006	Bhimavarapu Kalyani	III B.Com	B. Kalyani
6.	J20A21007	Boddukuri Mahima	III B.Com	B. Mahima
7.	J20A21008	Chennam Setty Prakrutamba	III B.Com	C. Setty Pra
8.	J20A21009	Chennamsetty Suneetha	III B.Com	ch. suneetha
9.	J20A21010	Ch. Naga Ratna Kumari	III B.Com	Ch. Naju ku
10.	J20A21011	Danaboyina Devi	III B.Com	D. Devi
11.	J20A21012	Dulla Sahithi	III B.Com	D. Sahithi
12.	J20A21013	Duru Sucharithasri	III B.Com	D. Sucharithasr.
13.	J20A21014	Gantela Manasa	III B.Com	G. Manas
14.	J20A21015	Gorojanam Navya Sree	III B.Com	G. Navya Sree
15.	J20A21016	Gurajala Vijaya Kumari	III B.Com	G. vijaya kumari
16.	J20A21017	J. Dhana Sasi Rekha Devi	III B.Com	J. D. S. R. Devi
17.	J20A21018	Jangala Ishwarya	III B.Com	J. Ishwarya
18.	J20A21019	Jetti Bindu Kumari	III B.Com	J. Bindu kumi
19.	J20A21020	Kalam Hema Latha	III B.Com	k. Hemalatha
20.	J20A21021	Kasimalla Divya	III B.Com	K. Divya
21.	J20A21022	Konda Stella Mary	III B.Com	K. Stella mary.
22.	J20A21023	Koppula Hemalatha	III B.Com	K. Hemalatha.
23.	J20A21025	Kopuri Vasantha Kumari	III B.Com	K. Vasantha kum
24.	J20A21026	Maaram Lakshmi Devi	III B.Com	M. Lakshmi Devi
25.	J20A21027	Marupudi Hyma	III B.Com	M. Hyma
26.	J20A21028	Medabalimi Nagavathi	III B.Com	M. Nagavathi
27.	J20A21030	Mukthipudi Annamani	III B.Com	M. Annamani
28.	J20A21031	Munipalli Vineela	III B.Com	M. vineela
29.	J20A21032	N. C Bala Siva Kumari Bai	III B.Com	N.C.B.S.k Bai
30.	J20A21033	Nallagorla Bhargavi	III B.Com	N. Bhargavi
31.	J20A21034	Nalukurthi Yesumariyamma	III B.Com	N. yesumariyamma
32.	J20A21035	Nemalikanti Sudha Rani	III B.Com	N. Sudha rani
33.	J20A21036	Nemalikanti Swarna Latha	III B.Com	N. swarnalatha
34.	J20A21037	Nenavath Nagalakshmi Bai	III B.Com	N. Nagalakshmi
35.	J20A21038	Palaparthi Havila	III B.Com	P. Havila
36.	J20A21040	Ravuri Kalyani	III B.Com	R. Kalyani
37.	J20A21041	Rayapati Sandhya	III B.Com	R. sandhya
38.	J20A21042	Shaik Umme Athiya	III B.Com	S. Umme Athiya
39.	J20A21043	Srikakoli Latha Sree	III B.Com	S. Latha sree
40.	J20A21044	Sykam Thrishika	III B.Com	S. Thrishika
41.	J20A21045	Thanneeru Rajitha	III B.Com	T. Rajitha.
42.	J20A21046	Thoka Mounika	III B.Com	T. Mounika
43.	J20A21047	Thorati Estheru Rani	III B.Com	T. Estheru rani
44.	J20A21048	Tummapudi Soniya	III B.Com	T. Soniya.

45.	J20A21049	Turaga Revathi	III B.Com	T. Revathi
46.	J20A21050	Vedullapalli Sumathi	III B.Com	V. Sumathi
47.	J20A21051	Vemuri Sushma	III B.Com	V - Sushma
48.	J20A21052	Chodavarapu Geethika	III B.Com	C. Geethika

Principal

JMJ college for women (A)::Tenali

Department of computer science

CERTIFICATE COURSE

1. Artificial Intelligence-IBSc(MPCs&MSCs)

2. Programming in C - IB.Com(Comp), B.Com(G),B.A-Spl-Eco,BSc-CBZ

3. Machine Learning-IIBsc(MPCs&MSCs)

4. C with Graphics -II B.Com(Comp), B.com(G),B.A-spl-Tel,B.A-Spl-Eng,B.A-Spl

J.M.J COLLEGE FOR WOMEN (A), TENALI
DEPATRMENT OF COMPUTER SCIENCE
CERTIFICATE COURSE
MACHINE LEARNING

W.e.f: 2022 - 2023   **No. of Hours: 32**   **Course Code: COMPCC222**

UNIT-I:

Introduction to Machine Learning and Preparing to Model Introduction to Machine Learning-Introduction, What is Human Learning? Types of Human Learning. What is Machine Learning? Types of Machine Learning, Problems Not To Be Solved Using Machine Learning. Applications of Machine Learning. Preparing to Model- Introduction, Machine Learning Activities, and Basic Types of Data in Machine Learning. Exploring Structure of Data, Data Quality and Remediation, Data Pre- Processing

UNIT-2:

Modelling & Evaluation, Basics of Feature Engineering Modelling & Evaluation-Introduction, Selecting a Model, Training a Model (for Supervised Learning). Model Representation and Interpretability, Evaluating Performance of a Model. Basics of Feature Engineering- Introduction, Feature Transformation, Feature Subset Selection

UNIT-3:

Bayesian Concept Learning and Regression
Bayesian Concept Learning - Introduction, Why Bayesian Methods are Important?, Bayes" Theorem, Bayes' Theorem and Concept Learning, Bayesian Belief Network. Regression: Introduction, Regression Algorithms Simple linear regression, Multiple linear regression, Polynomial Regression Model, Logistic Regression, Maximum Likelihood Estimation.

UNIT-4:

Supervised Learning: Classification, Ensemble Learning
Classification- Introduction, Example of Supervised Learning, Classification Model, Classification Learning Steps, Common Classification Algorithmsk-Nearest Neighbour (kNN), Decision tree, Random forest model, Support vector machines. Ensemble Learning-Boosting, Bagging
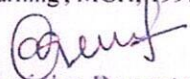
UNIT-5:

Unsupervised learning
Unsupervised Learning- Introduction, Unsupervised vs Supervised Learning, Application of Unsupervised Learning, Clustering-Clustering as a Machine Learning task, Different types of clustering techniques, Partitioning methods, Hierarchical clustering, Density-based methods: DBSCAN.
Finding Pattern using Association Rule Definition of common terms, Association rule, and Apriori algorithm.
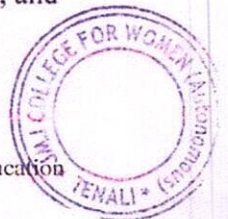
Reference Books:

1. Subramanian Chandramouli, Saikat Dutt, Amit Kumar Das, "Machine Learning", Pearson Education India, 1" edition.

2. Tom M. Mitchell, "Machine Learning', MGH, 1997.

8K Kaveemunnesa
Lecturer Incharge

Head of the Department
Department of COMPUTER SCIENCE
J.M.J. College for Women
(Autonomous), TENALI

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J.M.J. COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
DEPATRMENT OF COMPUTER SCIENCE
CERTIFICATE COURSE
MACHINE LEARNING

MODEL QUESTION PAPER

Time: 3 Hrs   Max. Marks: 60M

SECTION- A

Answer any Five Questions.   **5x2=10 Marks**

1. What is Machine Learning?
2. What is Human Learning?
3. Define Supervised Learning?
4. Define Bayesian Rule?
5. What is Classification?
6. Define Unsupervised Learning?
7. Define linear regression?
8. Define polynomial regression?

SECTION-B

Answer all the Questions   **5x10=50Marks**

1. (a) Explain Life Cycle of Machine Learning?
        (OR)
    (b).Explain briefly about Data preprocessing?

1. (a). Explain basic features of modelling Engineering?
        (OR)
    (b). Explain various types of super learning methods?

2. (a). Explain Bayesian network??
        (OR)
    (b).Briefly explain about polynomial linear regression model?

3. (a). Explain KNN algorithm?
        (OR)
    (b). Explain briefly about classification model in ML?

4. (a).Explain unsupervised learning?
        (OR)
    (b). Explain clustering?

SK.Kareemunnesa
Lecturer Incharge

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JMJ COLLEGE FOR WOMEN (A): TENALI
Department of Computer Science
Machine Learning
Report

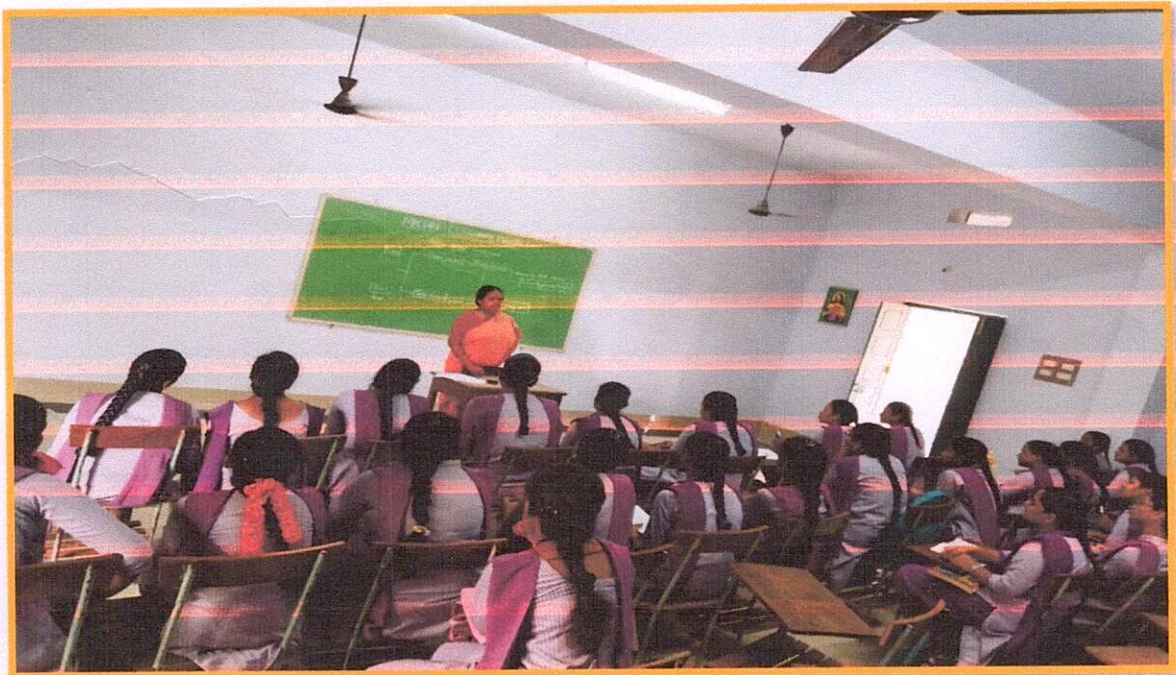**Activity:** Machine learning

Duration: 32 hours

Instructor: Sr. Amul Mary, Head of the Department of Computer Science

Date: 10th December 2022 to April 2023

No. of students enrolled: 101

       The Department of Computer Science offered an intensive 30-hour certificate course on ***Machine Learning*** from 10th December 2022 to April 2023. The course was led by Sr. Amul Mary, the Head of the Department of Computer Science, renowned for her expertise and engaging teaching methods. Foundations of Machine Learning, Types of machine learning, coverage of regression and classification techniques are the key factors explained by Sr. Amul Mary in the class. She also taught about Key algorithms, Supervised Learning, and unsupervised Learning. The 32-hour certificate course on Machine Learning, led by Sr. Amul Mary, provided students with a robust education in both the theoretical and practical aspects of the field. A total 101 students were benefitted by the certificate course.

Dr.Sr.Amul Mary explaining a project in Machine learning

Title of Certificate Course: machine learning
Class: III B.Sc (MPCS/MSCS)   Semester: IV (CSE)
No. of Hours: 32

Reg. No.	Name of the Student
151	A. Vijaya Kumari
152	A. prathusha
153	A. Sri prasanna
154	B. Siddhu
156	B. Hemalatha
157	B. poojitha
160	Ch. Neelima
161	Ch. Ramya
162	D. Keerthana
163	D. Dhana lakshmi
164	D. Keerthi
165	G. Nandini
166	G. kiran mai
167	G. keerthi
168	G. Satya Keerthi
169	G. mythili
170	K. Haasini
171	K. Bhargavi
173	K. Sandhya Rani
175	K. Swarna Kumari
176	K. Sirhya
178	K. keerthana
179	K. mary
181	K. meghana
182	L. Sandhya Rani
183	m. Bala Keerthi
184	m. priskilla
185	m. Bala Bhavani
186	m. Siva harika
189	N. kavya
190	p. Sasika
191	p. Haleena
192	p. Dhanya Rejoice
193	p. Srilatha
194	p. Durga Bhavani
195	S. vennela
196	C. Raja Rajeswari
197	S. Sree poojitha
198	St. Rachuritha
199	St. Nagur Saidabi
200	Sk. Shabira
201	S. Bhargavi
202	SD. Afroja
203	C. Tejaswi
204	Y. Gowri Sarathi
155	B. Janaki
158	B. Kavya Kumari
159	Ch. modhika
172	K. Deepthi
174	K. Swathi
177	K. Divya
180	K. vijaya lakshmi
186	m. krishnaveni
188	N. Yamini

Department of Computer Science

Title of the certificate course: Machine Learning   Semester: IV (Current)   No. of class: 32
Incharge Lecturer: B. Arch   Class: III B.Sc (MPCS, MSCS)

Regd no	Name of the student	Attendance marks
220	A. Kamakavali	x a x a a x x x a x a x x x a x x a a x x x x a x a a a x x x a a
221	B. Sandira	a x a x x a x a a x a a x a a x x a a x x a a x x a a x a x
222	B. Sony	x x a x a a x a x x a x a x a a x x x a a x a a x x a x x a x x
223	B. Sowanya	x x x a x x x x x a x x x x x x x x x x a x x x x x a x x x x
224	Ch. Papitha	x x a x a x x x x x a x x a x x a x x x x a x a a a x a x a x
225	D. Kavya	x x x x a x x a x x x x a x x x a x a a x x x a x x x a x a
226	D. Divya	a x a x x a x x a x x x a x a a x a x x x a x a x x a x x a x x
227	D. Navya	x a a x a a x a x a x a x x a x a a a a a a x x a a x x a x x a
228	G. Anusha	x x a x x x x x a x x x x x a a x x x a x a x x x a x a x x
229	G. Lavanya	a a x a x x a x x a a x a x a x a a x a x x a a x x a x a x x a
230	G. Smileyee	x x a x a x a x x a x a x a x x a a x x a x x a x a x a x a x x
231	G. Nagi Navya	a a a x a x a a a a a x x a a a a a a a a a a a a a a a a a
232	T. Supriya	x x a x a x x a a x x x a x x a x x a x x a a x x a x x x a v
233	K. Usha Rani	x x x a x x a x x a x a x x a x x a x a x a x a x x a x a x a x
234	K. Jyothika	x x x x a x x x x a x a x x a x x a x a x a x a x x a x x a x x
235	K. Lakya	x x a x a x x a x a x x a x a x x a x a a x x x a x x a a x x a
236	K. Mounika	x x x x a x x x x x a x x x x x x a x x x x x a x x x x x x
237	K. Yamuna Rani	a x x x x x a a x x a x a a x x a x x x x x a x x x x a x x
238	K. Akhila	x a x a a x x x a a x x a x a x a a x x x a x a a x x a x x
239	K. Amulya	a x a x x a a x a x x x a x a x x a x a x a x x a x a x a x a x
240	K. Vijaya Lakshmi	x x x a a x x a x a x a x a x x a a x a x a x x a x x x a x a
242	L. Soumya	x a x a x a x a x x a x a x x a x x a x x a x x a x x a x a x x
244	L. Srikala	x x a x a x a x x a a x x a x a a x x a x a x a x x a x a x x
245	L. Jeevana Jyothi	x x x x a x x a a x x a x x a x x a x a x a x a x x a x a a x
246	m. Gowthami	a a x a x x a x x a x x a a x x a x x a x x a x x a a x a x x a
247	m. Devi	x a x a x x a a x x a x x x a x x a x x a x x a x x x x a x a
248	m. Mounika	a a x x a x x a x x a x a a x x a x a x a x x a a x x x a x x a

250	m. Siyami Kumari	x x a a x x a a x x x a a x x a x x a x x a x x a x x a x a x
251	m. Valli Padma	a x x a x x x x a a a x x a x a x a x x a a x x a x a x x a x x
252	m. Shavani	a x a x x a a x x a x a x x a x x a x x x a x a x x a a a x x a
253	m. Jyothsna	x x a x a x x a x x a x x a x x a x a a x a x x a x x x a a x
254	n. pravallika	x a x x a x x a x x x a x x a x a x a x x x a a x a a x a x x
255	N. Anitha	x x a x a x a x x a a x x a x x x a a x a x a a x a x a a x x a
256	D. Bala Saraswathi	a x a x x a x x a x x x a x a x x a x x x a a x x a x x a x a x
257	P. Samritha	x a x a x x a x x a a x x a x x a x x x a x a a x a x x a x a
258	P. Aparna	a x x a x a x x a x x a a x a a x x a a x a x x a x x a x x x
259	R. mohana parameswari	a x x x x x a x x x a x x a x x a x x a a x x a x x a a x x x
261	P. Siyami Kumari	x x a x x a x x a x a x a x x a x a x x x a a x x a x a x x a
262	Sk. Noorjahan	x a x a x x a a x x x a x a a x x a x x a a x x a x a x x a x x
263	T. Ramya	a x x a x x x a a a x x a x x a x x a x x a a x x x a a x x x
264	T. Chandu Rani	a x a x x a a a x x x a x a x a x a x a x x x a a x a a x a x a
265	T. Amulya	x a x x a a x x a x a x x x a x x a x x a a a x x a x x x a x
266	V. Sanjana	a x x a x x a a x a x a a x a x a x x a x x a x a a x a x a x a
267	V. Padmaja	x x x a x x x x a a x x a x a x a a x a x a x a x a x a a x x a
268	V. Yuva Rani	x x x a a x a x a x x a x x a x x a x x x x a x x a x x x x
269	V. Bhuvaneswari	a a x x a x x a x x x x a x x x a x x a a x x x x a x x x a x x
260	B. Mounika	a a x a a x x a a a x a a a a a x a x x x a x a x a a a a x x a

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This is to certify that Ms. / Mr. _G.Kiranmai_

Daughter / Son of Sri/Smt. _Sambasiva Rao_ has successfully completed

Software Development certificate course in _Mechine Learning_

from _10-12-2022_ to _11-04-2023_ held at **JMJ College For Women (A), TENALI.**

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JMJ college for women (A)::Tenali

Department of computer science

CERTIFICATE COURSE

1. Artificial Intelligence-IBSc(MPCs&MSCs)

2. Programming in C - IB.Com(Comp), B.Com(G),B.A-Spl-Eco,BSc-CBZ

3. Machine Learning-IIBsc(MPCs&MSCs)

4. C with Graphics -II B.Com(Comp), B.com(G),B.A-spl-Tel,B.A-Spl-Eng,B.A-Spl

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DEPATRMENT OF COMPUTER SCIENCE
CERTIFICATE COURSE
C WITH GRAPHICS
SYLLABUS

W.e.f: 2022 - 2023   **No. of Hours: 32**   **Course Code: COMPCC222**

Unit I   4 Hours

Introduction – Different types of graphic modes, BGI, about object files, about fonts.

Unit II   7 Hours

Functions - arc - bar - bar3d - circle - cleardevice - closegraph - drawpoly - ellipse - fillellipse - fillpoly - floodfill - getarccords - getbkcolor - getcolor - getdrivername - getimage - getmaxcolor - getmaxx - getmaxy

Unit III   10 Hours

getpixel - getx - gety - graphdefaults - grapherrormsg - imagesize - line - lineto - linerel - moveto - moverel - outtext - outtextxy - pieslice - putimage - putpixel - rectangle - sector - setbkcolor - setcolor - setfillstyle - setlinestyle - settextstyle - setviewport - textheight – textwidth

Unit IV   7 Hours

MouseProgramming - Moving car - Smiling face animation - Paint program - Press me button game - bar chart - pie chart - 3d bar chart

Unit V   6 Hours

captcha - Circles in circles - Countdown - Web browser program - Traffic Light Simulation - Mouse pointer restricted in circle - Captcha program

Reference Books:

Let us C, Yashavant kanetkar, BPB Publications

Graphics under C, BPB Publications

Complete Reference in C Graphics, McGraw Hill

SK kareemunnesa
Lecturer Incharge

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DEPATRMENT OF COMPUTER SCIENCE
CERTIFICATE COURSE
C WITH GRAPHICS

MODEL QUESTION PAPER

Time: 3 Hrs   Max. Marks: 60M

SECTION- A

Answer any Five Questions.   5x2=10 Marks

1. Write font functions?
2. Define the term BGI?
3. Explain arc function with syntax?
4. What is the use of flood fill function?
5. Explain get bk color function with example?
6. Explain about graph defaults function?
7. What is the use of set viewport function?
8. How to draw a rectangle using graphics?

SECTION-B

Answer any one question from each section.   5x10=50 Marks

1. (a) Explain about BGI with example program.
          Or
   (b) Explain the font operations with a program.
10. (a) Write a program which performs countdown for 20 seconds using graphics in C.
          Or
   (b) Explain the following with simple programs:
       1. Cleardevice function   2. Ellipse function
11. (a) Write a program for Traffic Light Simulation.
          Or
   (b) Explain the following with simple programs:
       1. fillpoly function   2. getcolor function
12. (a) Explain the following with simple programs:
       1. imagesize function   2. gety function
          Or
   (b) Explain the following with simple programs:
       1. closegraph function   2. textwidth function
13. (a) Write a program to generate captcha using graphics in C.
          Or
   (b) Explain the following with simple programs:
       1. setfillstyle function   2. putpixel function

Sk. Kareemunnesa
Lecturer Incharge

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Report

Title	: "C with Graphics"
Name of the Activity	: Certificate Course
Date	: 10-12-2022
In charge	: Mrs. K. Yojitha
Organized by	: Department of Computer Science
Number Students	: 23

The Department of Computer Science conducted a certificate course on "C with Graphics" from **December 10, 2022, to April 11, 2023**. The course was overseen by **Mrs. K. Yojitha**, faculty of the Department of Computer Science. A total of **23 students from III B.Com Computers** enrolled in this program.

The course focused on integrating **graphics programming with C**, covering topics such as **graphics functions, coordinate systems, drawing shapes, animations, and user interface design using C graphics libraries**. Hands-on practical sessions helped students apply theoretical concepts effectively.

The course concluded successfully, providing students with a strong foundation in **C programming and graphical applications**, enhancing their coding and visualization skills.
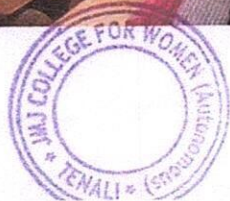
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Department of Computer Science
Certificate Course –II-C with Graphics

Mrs.Yojitha Explaining GUI Techniques in **"C with Graphics"**

Department of Computer Science

Title of the certificate course: **C with graphics**

Incharge Lecturer: Sk. kareemunnesa

Semester: IV (even)   No. of Hours:- 32

Class: II B.com(comp.adw), B.A(goint), spl.eco, spl.ed) C62

Regd no	Name of the student																															
20B1000	A. krupamani (B.com(comp)	x	x	x	a	x	a		x	a	x	x		a	a	a		x	x	x	x	x	x		x	a	x	a	x	x	a		x	x	x	x
1008	B. Debora	x	x	a	a	x	x	a	x	x	x	x		a	x	x		x	x	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x
14	D. priyanka	a	x	x	x	x	x	x	x	x	x	x		a	x	a		x	x	x	x	a	x	a	x	x	x	x	a	x	x	a	x	x	x
25	K. sridhu	x	x	a	x	x	x	x	a	x	x	x		a	x	x		x	x	a	x	x	x	x	x	x	x	x	x	a	x	a	x	x	a
28	m. Harika lakshmi	x	x	x	a	x	x	a	x	x	x		x	x	x		x	a	x	x	x	x	x	x	x	x	x	x	a	x	x	x	x
30	m. Sallu Bai	x	a	x	x	a	x	x	a	x	x		x	x	x		x	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x	x
33	m. vijaya Bharathi	x	x	x	x	x	x	x	x	x		x	a	x		a	x	a	x	a	x	x	x	x	x	x	x	x	a	x	x	x	x
47	T. meghana	x	x	a	x	x	a	a	x	x		x	x	x		x	a	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x
49	Y. Sandhya Rani	x	a	a	a	x	a	x	x	x		x	x	x		a	x	x	x	x	x	x	x	x	x	a	a	x	a	x	x
52	D. mounika	x	x	x	a	x	x	a	x	x		x	x	x		x	x	x	x	x	a	x	x	x	a	x	x	x	x	a	x
20B1007	m. lohitha B(B.com Com)	x	a	x	x	x	x	a	x	x		x	a	a		a	x	x	x	x	x	x	a	x	x	a	x	x	x	x	x
1008	D. kartikajani B(B.A spl.Tel)	x	a	a	a	a	a	x	x	x		x	x	x		x	x	x	x	a	x	x	x	x	x	x	x	x	a	x	x	x
20B2001	A. suneetha	x	x	x	a	x	a	a	x	a	x		x	x	x		a	x	x	a	x	x	x	x	a	x	x	x	x	a	x	a	x	x	x
002	k. madhavi (II B.com spl.Com)	x	x	a	x	x	a	x	x	a	a		x	x	x		a	a	x	x	x	x	x	a	a	x	x	x	x	x	x	x	a	x	x
20B4003	k. manisha Rani	x	x	x	x	x	x	x	x	x		x	x	x		x	x	x	x	a	x	x	x	x	x	x	a	x	x	x	x	x	x
27	D. Sasi Kalyani	a	x	x	x	x	x	x	x	x		x	x	x		x	x	x	a	x	x	x	x	x	x	x	x	x	x	x	a	x
29	R. yalasui	x	x	x	x	x	x	x	x	x		x	a	x		a	a	x	x	x	x	x	x	y	x	x	a	x	x	x	a	x
31	V. Bhargavi (II B.A spl.eco)	x	x	x	x	x	x	x	x	x		x	a	x		x	x	y	a	x	x	x	x	x	a	x	x	x	x	x	x	a
20B4001	A. Jyoshna	a	x	a	x	x	x	x	x	x		x	x	x		x	x	x	x	a	x	x	x	x	x	x	y	a	x	x	a	x	x	x
55	G. pushpalatha	x	a	x	a	x	x	x	x	x		x	x	x		x	x	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x	y	x
59	N. Srilakshmi (II B.sc C62)	x	x	x	x	x	x	x	x	x		x	a	x		x	x	a	x	x	x	x	a	x	x	x	x	x	x	a	x	x
20B5003	B. manjamma	a	x	x	x	x	x	x	x	x	x		x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	a	x	x	x
08	D. mounika	0	x	x	x	x	x	x	a	x		x	x	a		x	x	x	x	x	x	a	x	x	a	x	x	a	x	x	x	x

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LOVE IN SERVICE

CERTIFICATE

This is to certify that Ms. / Mr. __K. Sendhu.__

Daughter / Son of Sri/Smt. __Srinivasa Rao. K.__ has successfully completed

_____ certificate course in __C With Graphics__

from __10-12-22__ to __11.04.23.__ held at **JMJ College For Women (A), TENALI.**

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JMJ COLLEGE FOR WOMEN (AUTONOMOUS) :: TENALI

DEPARTMENT OF BOTANY

CERTIFICATE COURSE

BROUCHER

JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

Affiliated to Acharya Nagarjuna University
Morrispet (P.O), TENALI-522202, Guntur Dt., Andhra Pradesh.
College Email: jmjtenali@gmail.com Website: jmjcollege.ac.in Phone: 08644-227994

About College & Dept of Botany

Jesus Mary and Joseph College for women is one of the minority institutions inspired by the teaching and the life of Jesus Christ in A.P. It awakens and inspires the student's high ideals of social service and the prominent role they play as makers of home and society.

The college was started on July 2nd 1963, with 75 students. From this humble beginning the college has emerged as one of the best colleges in Acharya Nagarjuna University. At present the college offers 21 UG and 4 PG courses. The college has well furnished classrooms fully equipped laboratories, English Language Lab, Internet facility, Seminar room Auditorium, Gym, Playground and excellent hostel with hygienic conditions. The college was accredited by NAAC at A Level in 1999, reaccredited at B++ in 2006, B in 2013 and B++ in 2019.

Department of botany established in the year 1953 and very soon it becomes one of the best department to study undergraduate level. At present department offers mushroon cultivation,Tiissue culture in final year.Some of the important areas which are being taught at UG Level are plant nursery,fruits and vegetable preservation,cell biology,genetics and plant breeding.Our department collabrates with Zoology and Chemistry.

Certificate Courses Offered

CUT FLOWER TECHNOLOGY

Faculty In-Charge **Mrs.K.Bhavani**
Duration: 40 hrs

HERBAL BOTONY

Faculty In-Charge **Mrs.K.Bhavani**
Duration: 40 hrs

SEED TECHNOLOGY

Faculty In-Charge **Ms.CH.Anujya**
Duration: 40 hrs

BIOFERTILIZER PREPARATION

Duration: 40 hrs
Faculty In-Charge **Ms.CH.Anujya**

Mrs. K.Bhavani Devi
Head of the Department

Dr. Sr. Shiny K.P
Principal

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JMJ COLLEGE FOR WOMEN (AUTONOMOUS) TENALI
CUT FLOWER TECHNOLOGY w.e.f 2021-2022
(Online Certificate course)
ONLINE EXAM
Total hours 30 (Teaching 15 hrs & practical 15 hrs)

Time: 2hrs   Marks: 50

SYLLABUS

UNIT -1
1. Ornamental plants
2. Indoor Gardening

UNIT -2
1. Devine Vines (Climbers) ex : 1. Artabotrys , 2. Jasminum
2. Indoor gardening

UNIT - 3
1. Cultivation of plants in pots
2. Production & packing of cut flowers
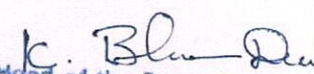
UNIT -4
1. Cultivation of important cut flowers
2. Cultivation of Roses & Cultivation of Gerbera

UNIT -5
1. Management of pest & diseases
2. Flower arrangement & Vase life of flower

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Head of the Department
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JMJ COLLEGE FOR WOMEN (AUTONOMOUS): TENALI
CUT FLOWER TECHNOLOGY w.e.f 2021-2022 (Certificate course)
Total hours 30 (Teaching 15 hrs & practical 15 hrs)
MODEL QESTION PAPER- ONLINE EXAM

TIME: 2 Hrs   Max marks: 50 M

SECTION – A
ANSWER ALL THE QUESTIONS
Each question carries 1 mark

1. Multiple choice questions   1 x 20 = 20 M

1. Chemical is used to increase the vase life of cut flower is?   [   ]
   a. Cycocel
   b. Gibberellin
   c . 8- HQC
   d. Glucose

2. Scientific name of Sampangi?   [   ]
   a. Antigonon leptopus
   b. Artabotrys
   C. A. elegans
   d. None of the above

3 .Chemical compound which is not found in rose oil?   [   ]
   a . Bita pinene
   b. Eugenol
   c . Benzyl alcohol
   d . non of the above

4 .Plant pigment found in the petal of marigold?   [   ]
   a).Myxoxanthophyll
   b.)Xanthophyll
   c).Chlorophyll
   d).All of the above

5. Which is a pest of dried flowers?   [   ]
a.Book caterpillar
b. Silver Fish
C. Termites
D. Silver Moth

6. Which the Group Of Flowering Plants?   [   ]
A).Pteridothyta
 B).Magnoliothyta
C).Ginkhophyta
D).Gymnospermae

7 Which Ornamental Plant Does Not Produce Flowers   [   ]
 A).Archid
 B).Peony
C).Hyacinth
D).All Of the Above

8).Curry Leaf Tree Is Native To Which Country?   [   ]
A).Usa
B).China
C).Indonesia
D).India

9. Which is not used for garland   [   ]
A). Marigold
 B).Crossandra
C). Jasmine
D). Gladiolus

10. Plants of marigold should not be planted near which crop ?   [   ]
a).fiber crops
b). oil seed crops
c). cereal crops
d). legume crops

11. Sterility which is common in ornamental plants?   [   ]
a).self Sterility
b). cytoplasmic-gamatic
c). cytoplasmic-genetic
d). cytoplasmic

12. Out Of Four Which One Is Biggest Flower?   [   ]
a). amorphopholus
b). rafflesia
c).corypha
d).ponda

13). Scientific name of marigold   [   ]
a). tagetus erecta
 b). tagetus. patula
 c). a and b
d). non Of the Above

14). Vase life of Gladiolous   [   ]
a). 5-10 days
b). 6-12 days
c). 3-4 weeks
d) 2-14 days

 15). Grbera belongs to which family   [   ]
a). Rosaceae
b). Asteraceae
c). convolvulaceae
d). All of the above

16).   Sunflower is also known as   [   ]
a). Helianthus
b). Heliotropisum
c). Hemerocallis
d). Helichrysum

17). Which one is related with Lord Buddha ?   [   ]
a). Delonix regia
b). Butea monosperma
c). Neolamarkia cadamba
d) Bauhinia

18). Which has important place in modern home garden   [   ]
a). Lawn
b). rose
c). Bonsai
d). Christmas tree

19). Bull head rose is caused by [ ]
a). Aphid
b). Thrips
c). Hoppers
d). White fly

20). Rose is propagated by? [ ]
a). Ring Budding
b). Patch Budding
c). T- Budding
d). Divis

II. **ANSWER ALL THE QUESTION (Each question carries)**   15X 2 = 30

SECTION – B

1. What is plant propagation?

2. Give any two examples of Devine climbers

3. Which type of plants are cultivated in pots.

4. Define indoor gardening

5. What is floral production?

6. What is the importance of vase life of cut flowers?

7. Give any two precautions to control pest

8. Give any two examples of climbing Roses

9. Give any two uses of Gerbera

10. Write any two examples of cacti plants

11. Write two important succulents

12. Write any two packing methods for cut flowers

13. How to improve vase life of cut flowers

14. Give two examples of ornamental bulbous plants?

15. Define Floriculture

JMJ COLLEGE FOR WOMEN (AUTONOMOUS) TENALI
DEPARTMENT OF BOTANY
ONLINE EXAM CUT FLOWER TECHNOLOGY
CERTIFICATE COURSE

REPORT

Online Certificate Course namely Cut flower Technology, where 50 pupils from III CBZ were registered in the Academic Year 2022-2023. Faculty of Botany K.Bhavani Devi who taught the students to learn about different methods in the syllabus. After successful completion of the course students were appeared for online examination in the month of July 5th 2022. Students learned how to Prepare Bouquet, Garlands, Ornamental plants propagation strategies

Head of the Department
BOTANY
J.M.J. College for Women
TENALI

Principal
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TENALI - 522 202

PHOTOGRAPH OF CERTIFICATE COURSE EXAM ON CUT FLOWER TECHNOLOGY

JMJ COLLEGE FOR WOMEN
Affiliated to Acharya Nagarjuna University
Re-accredited by NAAC with B++ Grade 2.93/4 (4th Cycle)

CERTIFICATE

This is to certify that Ms. / Mr. _Ch. Anu Sree_

Daughter / Son of Sri/Smt._____ has successfully completed

Botany Online certificate course in _cut flower Technology_

from _Jan_ to _March_ held at **JMJ College For Women (A), TENALI.**

K. Bhavani Devi
Head of the Department
BOTANY
J.M.J. College for Women
TENALI

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CERTIFICATE FOR CUT FLOWER TECHNOLOGY

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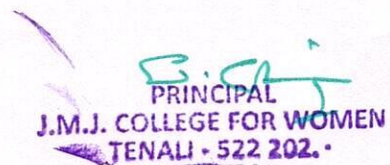
Online Certificate Course Exam-2022-23
Students enrolled in the course

J.M.J. COLLEGE FOR WOMEN :: TENALI
I/II/III/IV/V/VI SEMESTER END/MID EXAMINATIONS.........

Date of Examination : 29/3/23 online Certificate Course

Room No.

Subject & Paper : Cut flower technology

Sl.No.	Regd. No. of the Candidate	Main Answer Booklet No.	Total Addl. Sheets used	Signature of the Candidate
1.	J20A31001			A. Prasanna
2.	002			B. Hema
3.	003			B. Mounika
4.	004			B. keeathi Sowjanya
5.	005			ch. Lakshmi Prasanna
6.	006			ch. Anusree
7.	007			D. Bindupaneathi
8.	009			Vasinta
9.	010			D. Divya
10.	012			G. Vijaya
11.	013			
12.	014			G. Manya
13.	017			J. Deepthi
14.	018			J. Hima Bindu
15.	019			J. Priyanka
16.	020			K. Kusuma
17.	022			K. Honey Jyoshna
18.	023			K. Lavanya
19.	024			K. Soumya
20.	027			K. Nikhila
21.	029			L. Keerthi
22.	030			Laxmipriya Behera
23.	031			cl. Clary cteena
24.	032			N. Haritha
25.	034			M. Lavanya

Total No. of Main Answer Books used :

Total No. of Addtionals used :

ch. A

Signature of the Invigilarge

J.M.J. COLLEGE FOR WOMEN :: TENALI
I/II/III/IV/V/VI SEMESTER END/MID EXAMINATIONS.........

Date of Examination :

Cut flower technology
Online certificate
Course Exam

Room No.

Subject & Paper :

Sl.No.	Regd. No. of the Candidate	Main Answer Booklet No.	Total Addl. Sheets used	Signature of the Candidate
	120A31037			Md. N. Nazira...
	038			M. Padma Leelavathi
	039			
	040			P. Amulya
	041			R. Anuindra Bai
	042			R. Rachel Jyothi
	043			R. Navya sri
	044			S. Mary Sofiya
	046			S. Keerthi
	047			T. kusumar
	048			P.
	049			T. Tejaswini
	050			V. chaitanya.
	051			Y. Mary Jyoshna
	082			Ch. swathi
	083			D. Kotesuvari
	085			k. usha Rani

Total No. of Main Answer Books used :

Total No. of Addtionals used :

K. Bhavani Devi

Signature of the Invigilator

JMJ COLLEGE FOR WOMEN (AUTONOMOUS) :: TENALI

DEPARTMENT OF BOTANY

CERTIFICATE COURSE

BROUCHER

JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

Affiliated to Acharya Nagarjuna University
Morrispet (P.O), TENALI-522202, Guntur Dt., Andhra Pradesh.
College Email: jmjtenali@gmail.com Website: jmjcollege.ac.in Phone: 08644-227994

About College & Dept of Botany

Jesus Mary and Joseph College for women is one of the minority institutions inspired by the teaching and the life of Jesus Christ in A.P. It awakens and inspires the student's high ideals of social service and the prominent role they play as makers of home and society.

The college was started on July 2nd 1963, with 75 students. From this humble beginning the college has emerged as one of the best colleges in Acharya Nagarjuna University. At present the college offers 21 UG and 4 PG courses. The college has well furnished classrooms fully equipped laboratories, English Language Lab, Internet facility, Seminar room Auditorium, Gym, Playground and excellent hostel with hygienic conditions. The college was accredited by NAAC at A Level in 1999, reaccredited at B++ in 2006, B in 2013 and B++ in 2019.

Department of botany established in the year 1953 and very soon it becomes one of the best department to study undergraduate level. At present department offers mushroon cultivation,Tiissue culture in final year.Some of the important areas which are being taught at UG Level are plant nursery,fruits and vegetable preservation,cell biology,genetics and plant breeding.Our department collabrates with Zoology and Chemistry.

Certificate Courses Offered

CUT FLOWER TECHNOLOGY

Faculty In-Charge Mrs.K.Bhavani

Duration: 40 hrs

HERBAL BOTONY

Faculty In-Charge Mrs.K.Bhavani

Duration: 40 hrs

SEED TECHNOLOGY

Faculty In-Charge Ms.CH.Anujya

Duration: 40 hrs

BIOFERTILIZER PREPARATION

Faculty In-Charge Ms.CH.Anujya

Duration: 40 hrs

Mrs. K.Bhavani Devi
Head of the Department

Dr. Sr. Shiny K.P
Principal

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS): TENALI,
Academic Year 2022-23,
DEPARTMENT OF BOTANY
SEED TECHNOLOGY
SYLLABUS -CERTIFICATE COURSE:
Total hours 30 Hrs (Teaching Hours 30)

Objectives:
1. To familiarize the students with Morphology Hybrid Seed Production technology.
2. To learn various conventional and non-conventional Hybrid Seed Production technologies.
3. To learn the principles and need for the production of hybrid seeds particularly in field crops.

1.Heterosis and inbreeding depression.
1) Definition
2) Genetic basis of Heterosis.
3) Genetic basis of inbreeding depression

2.Apomixis
1) Definition
2) Types of apomixes
3) Significance.

3.Male sterility
1) Definition, types of male sterility.
2) GMS – Introduction and its use in hybrid seed production.
3) CMS- Introduction and its use in hybrid seed production.

4.Self- incompatibility
1) Definition
2) Kinds and utilization.

5.Devices for hybrid seed production
1) Manual Emasculation and hand / insect pollination.
2) Use of genetic male sterility.
3) Use of Gametocides.

K. Bha---Dev
Head of the Department
BOTANY
J.M.J. College for Women
TENALI

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS): TENALI,
DEPARTMENT OF BOTANY
SEED TECHNOLOGY
CERTIFICATE COURSE
MODEL QUESTION PAPER-:

SECTION – A
ANSWER ALL THE QUESTIONS
Each question carries 1 mark

1. Multiple choice questions
1 x 20 = 20 M

Question 01. A seed consists..?

(a). Intact embryo.
(b). Food materials.
(c). Seed coat.
(d). All of the above.

Question 02. Nucleus seed is produced by..?

(a). Breeder seeds.
(b). Foundation seed.
(c). Plant breeders.
(d). Nucleus seeds.

Question 03. Nucleus seed is the source of..?

(a). Breeder seed.
(b). Foundation seed.
(c). Both a and b.
(d). None of the above.

Question 04. Foundation seed is the progeny of..?

(a). Foundation seed.
(b). Nucleus seed.
(c). Breeder seed.
(d). None of the above.

Question 05. .…. has golden brown tag?

(a). Nucleus seeds.
(b). Golden seeds.
(c). Breeder seeds.
(d). All of the above.

Question 06. National Seed Corporation was founded in..?

(a). 1950.
(b). 1953.
(c). 1960.
(d). 1963.

Question 07. Headquarter of National Seed corporation?

(a). New Delhi.
(b). Mumbai.
(c). Bangalore.
(d). Kolkata.

Question 08. National seed corporation produces..?

(a). Breeder seed.
(b). Foundation seed.
(c). Nucleus seed.
(d). None of the above.

Question 09. Foundation seed has …. certified tag colour?

(a). White.
(b). Blue.
(c). Golden brown.
(d). Green.

Question 10. Registered seed is also known as..?

(a). Certified seed.
(b). Breeder seed.
(c). Both a and b.
(d). Foundation seed.

Question 11. Which is the progeny of registered seed?

(a). Certified seed.
(b). Foundation seed.
(c). Both a and b.
(d). None of the above.

Question 12. What is the colour tag of certified seed?

(a). White.
(b). Azure blue.
(c). Golden brown.
(d). None of the above.

Question 13. The state seed corporation of Haryana was established in..?

(a). 1973.
(b). 1972.
(c). 1975.
(d). 1974.

Question 14. Example of epigeal germination..?

(a). Beans.
(b). Papaya.
(c). Both a and b.
(d). None of the above.

Question 15. Example of hypogeal germination..?

(a). Peas.
(b). Gram.
(c). Mango.
(d). All of the above.

Question 16. There are four stages of seed development:

1. globular stage.
2. Heart shape stage,
3. Torpedo shape.
4. Cotyledonary stage.

In precocious germination..?

(a). Seed germinates by undergoing all stages.
(b). Seed germinates without undergoing all stages.
(c). Seed germinates by undergoing 1st two stages.
(d). Seed germinates by undergoing 1st, 2nd and 3rd stages.

Question 17. Why Grow Out Test..?

(a). To determine the genetic purity of any cultivar.
(b). To determine the genetic purity of any hybrid cultivar.
(c). To determine the genetic purity of a notified cultivar.
(d). All of the above.

Question 18. Seed act in India was enacted in..?

(a). 1964.
(b). 1966.
(c). 1967.
(d). 1956.

Question 19. There is a pre-requisite for seed certification of hybrids of..?

(a). Cotton.
(b). Musk memon.
(c). Brinjal.
(d). All of the above.

Question 20. Sample size for grow out test for jute is..?

(a). 100 g.
(b). 250 g.
(c). 500 g.
(d). 150 gm.

ANSWER ALL THE QUESTIONS

Each question carries   6 X 5 = 30M

SECTION – B

1. Who is the father of seed technology?
2. Define Genetic basis of Heterosis and inbreeding depression
3. Describe the types of male sterility.
4. Explain GMS and its use in hybrid seed production.
5. Give a brief account on Self- incompatibility.
6. Explain about Manual Emasculation and hand / insect pollination.

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TENALI - 522 202.

Certificate Course Exam on Seed Technology
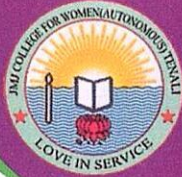
JMJ COLLEGE FOR WOMEN

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CERTIFICATE

This is to certify that Ms. / ~~Mr.~~ B. Kavitha

Daughter / Son of Sri/Smt. B. Subba Reddy. has successfully completed

_____ certificate course in Seed Technology

from January 2023 to March 2023. held at **JMJ College For Women (A), TENALI.**

Principal

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TENALI - 522 202.

JMJ college for women (A)::Tenali

Department of computer science

CERTIFICATE COURSE

1. Artificial Intelligence-IBSc(MPCs&MSCs)

2. Programming in C - IB.Com(Comp), B.Com(G),B.A-Spl-Eco,BSc-CBZ

3. Machine Learning-IIBsc(MPCs&MSCs)

4. C with Graphics -II B.Com(Comp), B.com(G),B.A-spl-Tel,B.A-Spl-Eng,B.A-Spl

J.M.J COLLEGE FOR WOMEN (A), TENALI
DEPATRMENT OF COMPUTER SCIENCE
CERTIFICATE COURSE
ARTIFICIAL INTELLIGENCE
SYLLABUS

W.e.f: 2022 - 2023   **No. of Hours: 33**   **Course Code: COMPCCOL221**

COURSE OUTCOMES:
Upon successful completion of this course, students will be able to:
1. Understand the need of AI and Intelligent Agents.
2. Understand knowledge based agents and prepositional logic.
3. Gain knowledge about learning agents and decision trees.
4. Gain knowledge about practical applications of NLP.

UNIT-I: Introduction to Al & Intelligent Agents
Introduction to Al: What is Al? Foundations of Artificial Intelligence, History of Al.
Intelligent Agents: Introduction, How Agents should act? Structure of Intelligent Agent-agent programs, Simple reflex agents, Goal-based and Utility-based agents.

UNIT II: Problem Solving:
Solving problem by searching uninformed search strategies-informed (heuristic) search Strategies-local search searching partially observable environments

UNIT-III: Adverasal search and consonant satisfaction problems:
Game theory, optimal discussion in games-Heuristic alpha-beta, tree search Monte Carlo tree search-Stochastic games, partially observable games, limitations of game search algorithms constraints satisfaction problems(CSP)examples, Constraints ,propagation back tracking search CSPs local search for CSPs

UNIT-IV: Knowledge and Reasoning
Knowledge and Reasoning: Knowledge-based Agents, Representation, Reasoning and Logic, Prepositional logic syntax, semantics, validity and inference, models, rules of inference for propositional logic, complexity of propositional inference; First-order logic syntax and semantics, extensions and notational variations, Using First-order logic - Inference in First-order logic, Forward and Backward Chaining

UNIT-V: Learning
Learning: Learning from observations-General model of learning Agents, Inductive Learning. Learning Decision trees Decision trees as performing elements, expressiveness of decision trees, inducing decision trees from examples, practical uses of decision tree learning, why learning works, learning in Neural and Belief networks comparing brains with digital computers, neural networks-notation, simple computing elements, and network structures.

Reference Books:

1. Artificial Intelligence,2nd Edition, E.Rich and K.Knight9TMH)
2. Artificial Intelligence and Expert Systems-Patterson PHI
3. Artificial Neural Networks B.Yagna Narayana, PHI

Lecturer Incharge

Head of the Department
Depar... ... SCIENCE
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J.M.J. COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
DEPATRMENT OF COMPUTER SCIENCE
CERTIFICATE COURSE
ARTIFICIAL INTELLIGENCE

MODEL QUESTION PAPER

Time: 3 Hrs   Max. Marks: 60M

SECTION-A

Answer any Five Questions.   5x2=10M

1. Define Intelligent Agent?
2. Define propositional inference?
3. What is First-order logic?
4. Define decision learning tree?
5. What is neural network?
6. Define NLP?
7. Define Data mining?
8. Define Sensors?

SECTION-B
Answer any Five Questions.   5X10=50M

1. (a).Explain History of Artificial Intelligence?
   (OR)
   (b). Explain the structure of Intelligent agent?
2. (a). How many logics are available in Artificial Intelligence? Explain briefly?
   (OR)
   (b).Explain inference models in AL? Briefly
3. (a). What are the various general model of learning agency?
   (OR)
   (b).Briefly explain about neural networks?
4. (a). Explain briefly about image processing operations in NLP?
   (OR)
   (b). Explain briefly about speech recognition in NLP?
5. (a) Explain Machine learning cycle process?
   (OR)
   (b) Explain the architecture and configuration spaces of Robotics?

Lecturer Incharge

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J.M.J. College for Women
(Autonomous), TENALI

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TENALI - 522 202

JMJ COLLEGE FOR WOMEN (A): TENALI
Department of Computer Science
Artificial Intelligence
Report

Activity: Artificial Intelligence

Duration: 33 hours

Instructor: Mrs. B.Aruna, Lecturer in the Department of Computer Science

Date: 2nd August 2022 onwards.

No. of students benefitted: 101

The Department of Computer Science offered a certificate course on Artificial Intelligence (AI) from 2nd August 2022 onwards. The 33-hour course was conducted by Mrs. Aruna, a lecturer in the Department of Computer Science, known for her expertise and engaging teaching methods. The course equipped students with the necessary skills to excel in the rapidly evolving field of artificial intelligence, preparing them for advanced studies and professional opportunities in technology and AI-related domains. The 33 - hour certificate course on Artificial Intelligence, led by Mrs. Aruna, provided students with a thorough education in both the theoretical and practical aspects of AI. A total 101 students were benefitted by the certificate course.
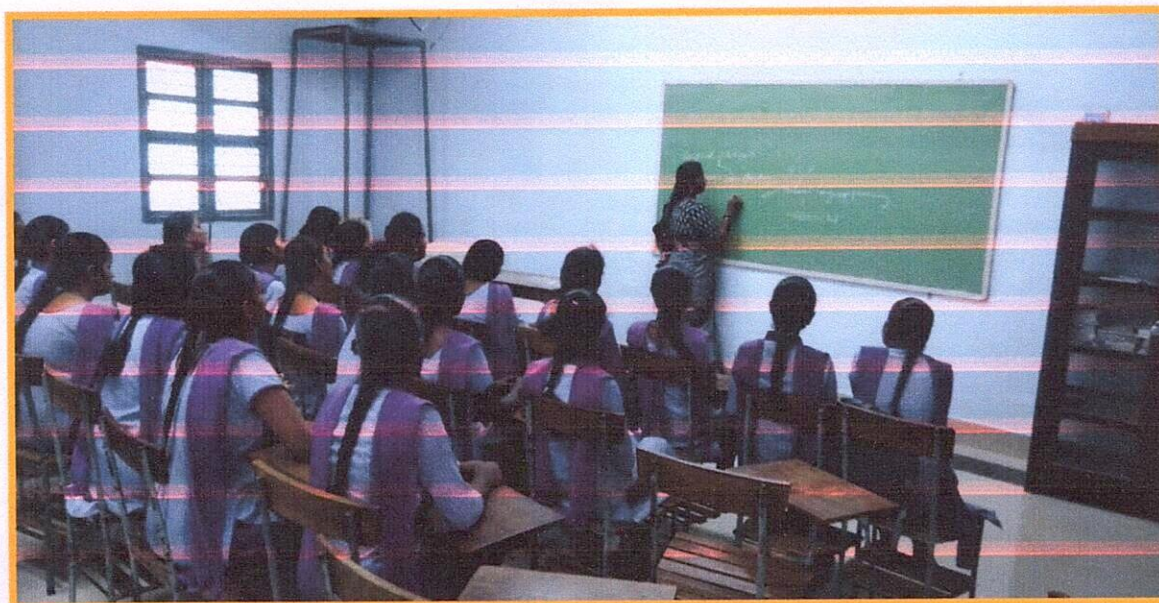
Mrs. Aruna explaining about Artificial Intelligence

Title of certificate course : Artificial Intelligence   Semester : III (odd)
Class : II BSc (mpcs)   Incharge : B. Aruna   No. of Hours : 33

Regd No	Name of the students
152ura	A. Vijaya Kumari
151	A. Prathusha
153	A. Sai Prasanna
154	B. Sindhu
156	B. Hemalatha
157	B. poojitha
160	Ch. deepika
161	Ch. Pooja
162	D. Keerthana
163	D. Ghana Lakshmi
164	D. keerthi
165	G. Nandini
166	G. Kiranmai
167	G. Keerthi
168	G. Satya keerthi
169	G. mythili
170	K. bharathi
171	K. Bhargavi
173	K. Sandhya Rani
175	K. Swarna Kumari
176	K. Supriya
178	K. Keerthana
179	K. mary
181	K. Meghana
182	L. Sandhya Rani
183	m. Bala Keerthi
184	m. priscilla
185	m. Bala Bhavani
187	m. Siva Kavita
189	m. kavya
190	P. Swisna
191	P. Heleena
192	P. Dhanya Rejoice
193	P. Sri Ratna
194	P. Durga Bhavani
195	S. Vennela
196	S. Raja Rajeswari
197	S. Sree poojitha
198	Sk. Bashimira
199	Sk. Noor Saidabi
200	Sk. Shakira
201	S. Bhargavi
201	Sp. Afrija
202	S. Tejaswi
204	Y. Guru Santhi
155	B. Janaki
158	B. kavya Kumari
159	Ch. moulika
174	K. Deepthi
177	K. Santhi
147	K. Divya
180	K. Vijaya Lakshmi
186	m. Krishnaveni
188	N. Nandini

Title of Certificate course: Artificial Intelligence, Class: II B.Sc (MPCs/MSCs), Teaching member: B. Aruna
Semester: IV (covid), No. of class: 33

Reg. No	Name of the Student
291	A. Karnakavali
292	B. Indira
293	B. Sony
294	B. Sravanya
295	Ch. prajitha
296	D. Kavya
297	D. Divya
298	D. Navya
229	G. Anusha
230	G. Lavanya
231	G. Smiley
232	G. Indu navya
233	J. Ajmira
234	K. Usha Rani
235	K. Jyothika
236	K. Laya
237	K. Mounika
238	K. Vamma mani
239	K. Akhila
240	K. Amulya
242	K. vijaya Lakshmi
244	L. Soumya
245	L. Sukala
246	L. Jeshma Jyothi
247	m. Gowthami
248	m. Devi
249	m. mounika
250	M. Syamu kumari
251	m. Valli padma
252	m. Sravani
253	m. Jyothna
254	n. pravallika
255	p. Anusha
256	p. Bala sai soumya
257	p. Samritha
258	p. Aparna
259	R. mohana parameswari
261	Sk. Noorjahan
262	T. Ramya
263	T. chandu Rani
264	T. Amulya
265	V. Sanjana
266	V. Ratraja
267	Y. Yuva Rani
268	Y. Bhuvaneswari
269	B. mounika
260	R. sharon Rani

Head of the Department
Department of COMPUTER SCIENCE
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CERTIFICATE

This is to certify that Ms. / Mr. **Bodda. Ishwarya**

Daughter / Son of Sri/Smt. **B. Ramana** has successfully completed

certificate course in **Artificial Intelligence**

from **02-08-2022** to **29.12.2022** held at **JMJ College For Women (A), TENALI.**

Principal

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Department of computer science

CERTIFICATE COURSE

1. Artificial Intelligence-IBSc(MPCs&MSCs)

2. Programming in C - IB.Com(Comp), B.Com(G),B.A-Spl-Eco,BSc-CBZ

3. Machine Learning-IIBsc(MPCs&MSCs)

4. C with Graphics -II B.Com(Comp), B.com(G),B.A-spl-Tel,B.A-Spl-Eng,B.A-Spl

J.M.J COLLEGE FOR WOMEN (A), TENALI
DEPATRMENT OF COMPUTER SCIENCE
CERTIFICATE COURSE
PROGRAMMING IN C
SYLLABUS

W.e.f: 2020 - 2021 **No. of Hours: 33** **Course Code: COMPCC202**

UNIT- I

Introduction to Algorithms and Programming Languages: Algorithm – Key features of Algorithms – Some more Algorithms – Flow Charts. **Introduction to C:** Structure of C Program – Writing the first C Program – File used in C Program – Compiling and Executing C Programs – Using Comments – Keywords – Identifiers – Basic Data Types in C – Variables – Constants – I/O Statements in C- Operators in C- Programming Examples – Type Conversion and Type Casting

UNIT- II

Decision Control and Looping Statements: Introduction to Decision Control Statements – Conditional Branching Statements – Iterative Statements – Nested Loops – Break and Continue Statement – Go to Statement

UNIT- III

Functions: Introduction – using functions – Function declaration/ prototype – Function definition – function call – return statement – Passing parameters – Scope of variables – Storage Classes – Recursive function

UNIT- IV

Arrays: Introduction – Declaration of Arrays – Accessing elements of the Array – Storing Values in Array – Calculating the length of the Array – Operations on Array – one dimensional array for inter-function communication – Two dimensional Arrays –Operations on Two Dimensional Arrays.
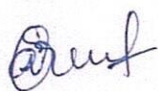
UNIT-V

Strings:- Introduction string and character functions.

Reference Books:

1. Reema Thareja, Introduction to C programming, Oxford University Press.
2. E Balagurusamy, Computing Fundamentals & C Programming – Tata McGraw-Hill, 2008.
3. Ashok N Kamthane, Programming with ANSI and Turbo C, Pearson Publisher, 2002.
4. Henry Mulish & Hubert L.Coo Reema Thareja: The Spirit of C: An Introduction to Modern Programming, Jaico Publishing House, 1996.

Lecturer Incharge

Head of the Department
Department of COMPUTER SCIENCE
J.M.J. College for Women
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TENALI - 522 202

J.M.J. COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
DEPARTMENT OF COMMERCE
CERTIFICATE COURSE
PROGRAMMING IN C

MODEL QUESTION PAPER

Time: 3 Hrs   Max. Marks: 60M

SECTION-A

Answer any FIVE questions.   5X2=10 M

1. What is an Algorithm?
2. What is Type Casting?
3. What is Go to Statement?
4. Explain about 'break' and 'continue' statements.
5. Define Function.
6. What is Recursion?
7. Define 2D array?
8. What is a String?

SECTION-B

Answer ALL Questions   5X10=50 M

9. a. Explain the structure of a C program

    (or)

   b. Explain the basic Data types in C with syntax and example.

10. a. Explain about the Decision Control Statements in 'C'?

    (or)

   b. Explain about the Looping Statements in 'C'?

11. a. Write C Program on function with passing parameters with return function.

    (or)

   b. Explain storage classes in C with syntax and example.

12. a. Define Array. Explain about How to declare, access, storing values in Array.

    (or)

   b. Write a C Program on Matrix Multiplication.

13. a. Explain about String Functions in C.

    (or)

   b. Explain about character functions in C.

Lecturer Incharge

Head of the Department
Department of COMPUTER SCIENCE
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TENALI - 522 202

Report

Title	: "Programming in C"
Name of the Activity	: Certificate Course
Date	: 02-08-2022
In charge	: **Sk. Karimunnisa**
Organized by	: Department of Computer Science
Number Students	: 24

The Department of Computer Science conducted a certificate course on **"Programming in C"** from **August 2, 2022, to December 29, 2022**. The course was overseen by **Sk. Karimunnisa**, faculty of the Department of Computer Science. A total of **24 students from III B.A & B.Com Computers** enrolled in this program.
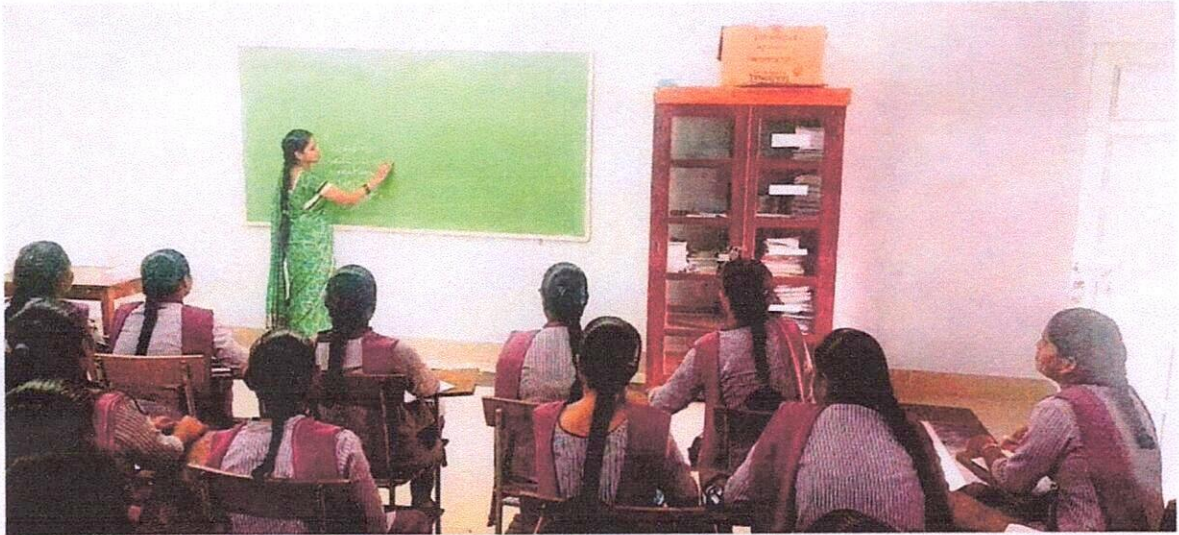
The course aimed to provide fundamental knowledge of C programming, covering essential concepts such as **data types, control structures, functions, arrays, pointers, and file handling**. Practical sessions and assignments were included to enhance hands-on experience.

The course concluded successfully, equipping students with basic programming skills essential for their academic and professional growth.
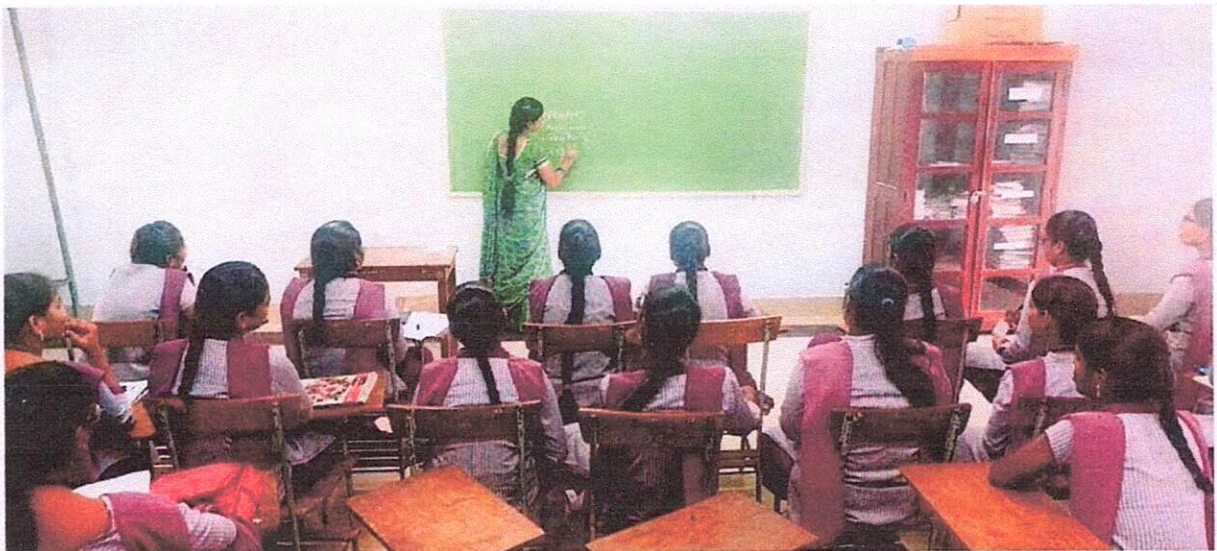
Principal

PRINCIPAL
JMJ COLLEGE FOR WOMEN (Autonomous)
TENALI

JMJ COLLEGE FOR WOMEN(A)::TENALI
Department of Computer Science
Certificate Course –I-Programming in C

Mrs.Sk.Kareemunnesa Explaining Coding in Programming in C

Title of the certificate course: Programming in C   Semester: III (odd)
Incharge Lecturer: Sr. caree munnesa   Class: III B.com (comp), Gen, D C B A-Sp. Tel, Sp. Eco, Sp (Eco), CBZ.
No. of Hours: 33

Regd. no. & name of the student		Attendance
10100	A. Brupamani (III B.com comp)	x x x a x x x a / x x / X X a x x / X X X a x x x a x / x X a x X x x a x
1003	B. Debara	X a x x x a x x / a x / X X x a x / x x x x a x x x a / x x a x x x a x a
14	D. Priyanka	X a x x x x x x / a x / x x x a x / x x x x a x x a x / X a x x a x x x a
25	K. Sindhu	X x x a x x a x / X x / X a x a x / X X x a X X X a x / X a x x x a x x a
28	M. Timika Lakshmi	a x a x a x x x / X X / X X a x x / a x x x a a x X a / x x a x a x x a x
32	M. Sallu Bai	X x x x x a x x / X X / x a x x a / X X a X a X X a / a x x a x x a x x
33	M. Vijaya Bharathi	X a x x a x x x / a a / X X a x x / a x x x a x x x x / x x x x a a x x x
47	T. Meghana	X x x x a x x x / a x / a x x x a / x x x x a x x x a / a x x x a a x x a
49	Y. Candhya Rani	X x a x x a x x / X a / X X a x x / x a x x x a x x / x x a x x a x x
52	D. Manika	a x x x x x x a / X X / a x x a x / x x x x a x x x X / x a x a x x a x
10100	M. Lahitha (III B.com Gen)	x a x x a x x x / X X / x a x x x / x a x x x x a x x / x a x x x x a x a
1003	P. Koteswari	a x x a x x x a x / x X / X X x a x / x a x x a x x x x / a x x a x x a x
01000	A. Suneetha (III B.com-Tel)	x X x x x x x a x / a x / X a x x a / x a x x a x x x a / a x a x x a x x a
1000	K. Madhavi	X a x a x x x a / a x / X x a x x / a x x a x x x a x / x x x x a x x x
10100	K. Monisha Rani	a x x x a x x x / a a / a x a x x / a x x a x x x a x / a x x x a x x x a
27	P. Sasi Kalyani	X a x a x x x a / X X / X X x a x / X X a x x a x x x / x x a x a x x a x
29	R. Yasaswi	a x a x x a x a / a x / a x x x a / x a x x x x a x x / a x x x x a x x x
31	V. Bhargavi	X x a x x x a x / x a / x x x a x / X X x a x X X x a / x x a x x x x a x
01000	A. Jyoshna	x x x x x a x a / X X / X x a x x / x a x x x a x x a / a x x a x x a x a
05	G. Pushpalatha (B.A.)	a x x a x x a x / X X / X a x x x / X X a x x x a x x / x x a x x a x x a
09	N. Sribhmi (Eco)	a a a x x a x x / X X / X x x a x / a x x a x x a x x / x a x x x x x a x
01000	B. Maniamma (B.com CBZ)	x x x x a x x x / X X / a x x x x / X X a x x x a x x / a x x a x x x x
08	D. Mounika	x x x a x x x x / X x / x x x a x / X X x a x x x a x / x a x x a x a x x

JMJ COLLEGE FOR WOMEN

Affiliated to Acharya Nagarjuna University
Re-accredited by NAAC with B++ Grade 2.93/4 (4th Cycle)

CERTIFICATE

This is to certify that Ms. / Mr. Badugu Debora

Daughter / Son of Sri/Smt. B. Varaprasad has successfully completed

certificate course in Programming in C

from 02. 08. 2022 to 29-12-2022 held at **JMJ College For Women (A), TENALI.**

Principal

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