

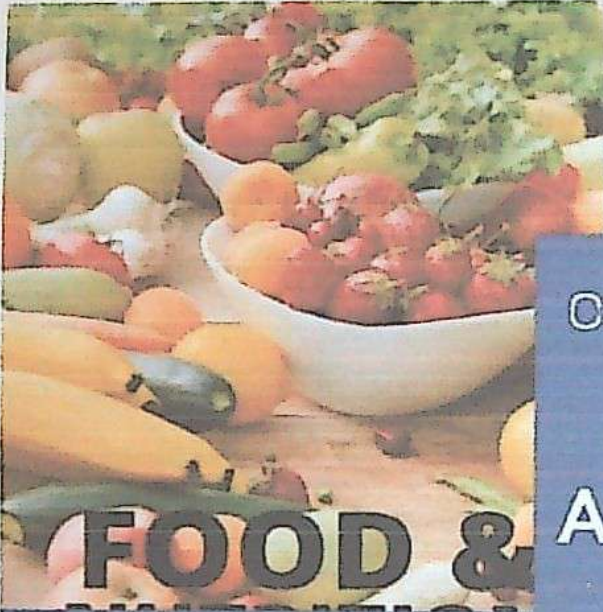


SR&BGNR

GOVERNMENT ARTS & SCIENCE COLLEGE, KHAMMAM

An Autonomous Institution

DEPARTMENT OF ZOOLOGY



SR&BGNR
GOVT ARTS &
SCIENCE
COLLEGE (A)
KHAMMAM

Certificate course on

FOOD AND NUTRITION

Organized by
Department of
zoology

2020-2021

- 30 DAYS PROGRAMME
- III B.SC LIFE SCIENCE
- ONLINE COURSE



SR&BGNR Govt.Arts & Science College Khammam (Autonomous)
ZOOLOGY
Certificate Course on
FOOD AND NUTRITION

Unit-I: Food Science & Community Nutrition (10 Hrs)


- 1.1 Basic concept of food & Nutrition, Classification of Food and Nutrients; Requirement and functions of Proteins, Lipids and Carbohydrates in diet.
- 1.2 Water-Functions, daily requirements, Water balance; Dietary Fibre sources & nutritional significance.
- 1.3 Life style related diseases-hypertension, diabetes mellitus and obesity (causes and prevention through dietary and life style modifications).

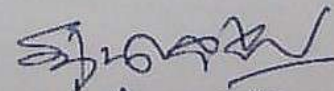
Unit-II: Nutritional Biochemistry & Diet Therapy (10 Hrs)

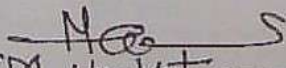
- 2.1 Vitamins - Chemistry and biochemical role of fat soluble vitamins. A, D, E, and K. Water soluble vitamins - B1, B2, B6, niacin and C.
- 2.2 Minerals-Biochemical role of inorganic elements.
- 2.3 Dietary care and management in-Viral Hepatitis, Cirrhosis of liver, Dietary care

Unit-III: Food Microbiology (10 Hrs)

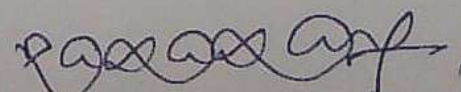
- 3.1 Introduction to important organisms in foods; Methods for destruction of microorganism in foods.
- 3.2 Causes, treatment & Prevention of social health problems-smoking, alcoholism, drug dependence and Acquired Immunodeficiency Syndrome (AIDS).
- 3.3 Food Spoilage-Contamination and microorganisms in the spoilage of different kinds of foods: Food and water borne infections and intoxications.


(1) 
(Dr. Ch. Sahivalulu)

(2) 
(G. Srinivas Kumar)

(3) 
(Dr. Venkateswara Rao)

(4)


(Dr. V. Ravi Shankar)

(5) 
(G. RAMA KUMARA SWAMY)

SR&BGNR Govt. Arts and Science College(A) Khammam
Department of Zoology
Certificate Course on "FOOD & NUTRITION"
List of Course Completed Students Nov-2020

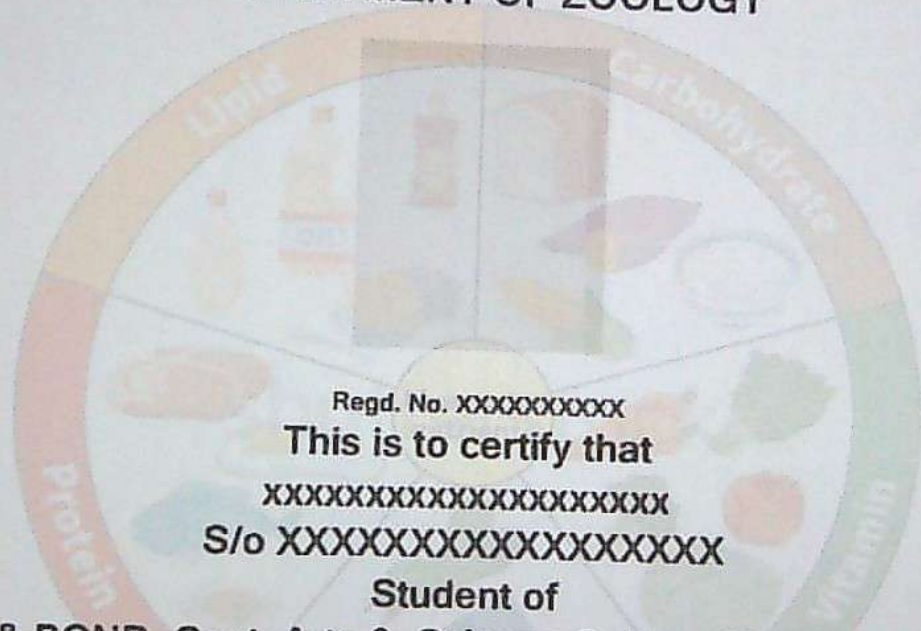
S.No	H.T.No	Name of The Student	Grade
1	FN-201	A.Vinod	A
2	FN-202	B.Mounika	A
3	FN-203	B.Ganesh	B
4	FN-204	Ch.Sai sree	A
5	FN-205	D.Venkanna	A
6	FN-206	G.Prasad	A
7	FN-207	K.Jyothermaye	A
8	FN-208	J.Nandini	O
9	FN-209	N.Uma	A
10	FN-210	M.Naveen	A
11	FN-211	P.Rupa	A
12	FN-212	S.Sindhu	A
13	FN-213	S.Triveni	A
14	FN-214	T.Srinivas	B
15	FN-215	U.Sravya	A
16	FN-216	V.Supriya	A
17	FN-217	Y.Sowmya	A
18	FN-218	Balg Sana	A
19	FN-219	G.Murali	O
20	FN-220	Ch.Srikanth	A
21	FN-221	K.Kalyani	A
22	FN-222	K.Mahesh	A
23	FN-223	P.Deepthi	A
24	FN-224	P.Sunil	B
25	FN-225	S.Gopi raj	A
26	FN-226	SK.Nazeema	A
27	FN-227	V.Arusha	A
28	FN-228	A.Srinija	O
29	FN-229	Ch.Vanesh	A
30	FN-230	G.Vijay	A

(Dr. Ch. Srinivahulu)

SR & BGNR GOVT. ARTS & SCIENCE COLLEGE (A)
KHAMMAM- 507 002 TELANGANA



DEPARTMENT OF ZOOLOGY



Regd. No. XXXXXXXXXXXX

This is to certify that

XXXXXXXXXXXXXXXXXXXXXX

S/o XXXXXXXXXXXXXXXXXXXX

Student of

SR & BGNR Govt. Arts & Science College Khammam (A)
has been declared to have qualified in the
prescribed examination for certificate course in

FOOD AND NUTRITION

whchh was held in the month of November 2020

Co - ordinator
Food & Nutrition

Incharge
Dept. of Zoology

Principal

SR&BGNR ARTS AND SCIENCE
COLLEGE(A)::KHAMMAM

DEPARTMENT OF MATHEMATICS

Certificate Course
in
LATEX

INAUGURAL SESSION

18th April 2022

Chief Guest
Dr. Mohd. Zakirullah
Principal

V. Sambasiva Rao
HOD Mathematics

K. Jyothirmai Rani
Course Co-ordinator

Faculty
B.Venkateswara Rao
P.Anuradha
U.Nagarekha Rani
J.Venkata Brahmam

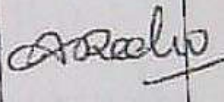
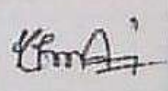

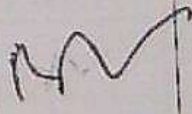
Department of Mathematics

SR&BGNR Arts and Science College (Autonomous), Khammam

Name of the Course: Basic Mathematical skills & Quantitative Aptitude

Workload Distribution

Ac. Year 2020-21

Unit No.	Topic	No. of Periods Allotted	Name of the lecturer allotted	Whether completed or not	Signature
I	Number System	7 Hours	P. Anuradha	Completed	
	H.C.F. and L.C.M.				
	Square Roots and Cube Roots				
	Average				
II	Percentage	8 hours	K. Jyothirmayi Ami	Completed	
	Profit and Loss				
	Ratio and Proportion				
	Partnership				
III	Time and Work	7 Hours	V. Sambashiva Rao.	Completed	
	Time and Distance				
	Boats and Streams				
	Problems on Trains				
IV	Problems on Ages	8 Hours	B. Venkateswar Rao.	Completed	
	Simple Interest				
	Compound Interest				
	Calendar				
	clocks				
	Total	30 Hours			

Text book: Quantitative aptitude , Dr. R. S. Aggarwal, S. Chand and Company Ltd.

Department of Mathematics - SR&BGNR. Govt. College (Autonomous), Khammam
 Certificate Course in Basic Mathematical skills & Quantitative Aptitude for the Ac. Year 2020-21
 Attendance of the participants

S.No.	Name of the student	Date																	
		12/2	15/2	16/2	17/2	18/2	19/2	20/2	22/2	23/2	24/2	25/2	26/2	27/2	1/3	2/3	3/3	4/3	5/3
1	A. Bharath	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	A	P	P
2	D. Sathish	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	A. Devendra	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	N. Madhu	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
5	P. Jayasudha	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
6	N. Saikam	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
7	R. Suman	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
8	S. Saikumar	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
9	D. Prasuni	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
10	N. Suman	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A
11	P. Rakesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	G. Mahesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	M. Naveenkumar	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	T. Nagesh	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
15	B. Saikumar	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
16	S. Charan	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P
17	Ch. Pranee	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	V. Anji	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P

Department of Mathematics - SR&BGNR. Govt. College (Autonomous), Khammam
 Certificate Course in Basic Mathematical skills & Quantitative Aptitude for the Ac. Year 2020-21
 Attendance of the participants

S.No.	Name of the student	Date																		
		12/2	15/2	16/2	17/2	18/2	19/2	20/2	21/2	23/2	24/2	25/2	26/2	27/2	1/3	2/3	3/3	4/3	5/3	
19	D. Satish kumar	P	P	P	P	A	P	P	P	P	P	P	A	P	P	A	P	P	P	
20	G. Sai Deepshitha	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	A	P	
21	L. Nagalakshmi	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	
22	P. Gopi Krishna	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	
23	T. Sathika	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	
24	E. Sravan	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	
25	K. Devanthi Kumari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
26	P. Ranjith	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	
27	Y. Yamuna	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
28	P. Vinay	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	
29	B. Vamsi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
30	G. Ramkrishna	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	
31	A. Babusap	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	
32	P. Nandini	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	
33	S. Hanuja	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P	P	
34	K. Anand kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
35	P. Mohan	P	P	P	P	A	P	P	P	P	P	P	P							

Department of Mathematics - SR&BGNR. Govt. College (Autonomous), Khammam
 Certificate Course in Basic Mathematical skills & Quantitative Aptitude for the Ac. Year 2020-21
 Attendance of the participants

S.No.	Name of the student	Date												
		6/3	8/3	9/3	10/3	15/3	16/3	17/3	18/3	19/3	20/3	22/3	23/3	
1.	A. Bharath	P	P	P	P	A	P	P	P	P	P	P	P	
2.	D. Sathish	P	P	P	P	P	P	P	P	P	A	P	P	
3.	G. Devendra	P	P	P	A	P	P	P	P	P	P	P	P	
4.	N. Madhu	P	P	P	P	P	P	A	P	P	P	P	P	
5.	P. Jayasudha	P	P	P	P	P	P	P	P	P	P	P	P	
6.	N. Saran	P	P	P	P	P	P	P	P	P	P	P	P	
7.	B. Suman	P	P	P	A	P	P	P	P	P	P	P	P	
8.	S. Saikumar	P	P	P	P	P	P	A	P	P	P	P	P	
9.	P. Tharuni	P	P	P	P	P	P	P	P	P	P	P	P	
10.	N. Suman	P	P	P	P	A	P	P	P	P	P	P	P	
11.	P. Rakesh	P	P	P	P	P	P	P	P	P	A	P	P	
12.	G. Mahesh	P	P	P	P	P	P	P	P	P	P	P	P	
13.	M. Naveen Kumar	P	P	P	P	P	P	P	P	P	P	P	P	
14.	J. Nareesh	P	P	P	P	P	P	A	P	P	P	P	P	
15.	B. Saikumar	P	P	P	P	P	P	P	P	P	P	P	P	
16.	S. Charan	P	P	P	P	P	P	P	P	P	A	P	P	
17.	Ch. Praveen	P	P	P	P	P	P	P	P	P	P	P	P	
18.	V. Anji	P	P	P	P	P	P	P	P	P	A	P	P	

Department of Mathematics - SR&BGNR. Govt. College (Autonomous), Khammam
 Certificate Course in Basic Mathematical skills & Quantitative Aptitude for the Ac. Year 2020-21
 Attendance of the participants

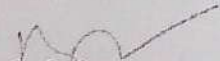
Sl.No.	Name of the student	Date												
		6/3	8/3	9/3	10/3	15/3	16/3	17/3	18/3	19/3	20/3	22/3	23/3	
19.	D. Satish Kumar	P	P	P	P	A	P	P	P	P	P	P	P	
20.	G. Sri Deepshitha	P	P	A	P	P	P	P	P	P	P	P	P	
21.	L. Nagalakshmi	P	P	P	P	P	P	A	P	P	P	P	P	
22.	P. Anji Krishna	P	P	P	P	P	P	P	P	P	P	P	P	
23.	T. Sathvika	P	P	P	P	P	A	P	P	P	P	P	P	
24.	E. Sravan	P	P	P	P	P	P	P	P	P	P	P	P	
25.	K. Devarath Kumar	P	P	P	A	P	P	P	P	P	P	P	P	
26.	P. Ranjith	P	P	P	P	P	P	A	P	P	P	P	P	
27.	Y. Yamuna	P	P	P	P	P	P	P	P	P	P	P	P	
28.	P. Vinay	P	P	P	P	P	P	P	P	P	P	P	P	
29.	B. Vamsith	P	P	P	P	P	P	P	P	A	P	P	P	
30.	A. Rambabu	P	P	P	P	P	P	P	P	P	P	P	P	
31.	A. Ravi Reddy	P	P	P	P	P	P	P	P	P	P	P	P	
32.	P. Nandini	P	P	P	A	P	P	P	P	P	P	P	P	
33.	S. Banuja	P	P	P	P	P	P	P	A	P	P	P	P	
34.	K. Anand Kumar	P	P	P	P	P	P	P	P	P	P	P	P	
35.	P. Mohan	P	P	P	P	P	A	P	P	P	P	P	P	

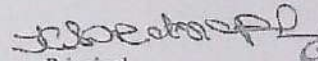
SR & BGNR GOVERNMENT ARTS & SCIENCE COLLEGE(A)
Khammam:: Telangana-507002



**Value Added Course on
Basic Mathematical skills and Quantitative aptitude**

This is to certify that Mr/Ms P. Vinay of MSCs I Year of SR & BGNR Government Arts & Science College(A), Khammam has enrolled for the Value Added Course organized by The Department of Mathematics from 12.02.2021 to 23.03.2021 with Regd. No. MCC028 and successfully completed the course with 97% score.


Co-Ordinator


Principal



SR & BGNR GOVT. ARTS & SCIENCE COLLEGE

AUTONOMOUS
KHAMMAM

CERTIFICATE COURSE

On
"BASIC COMPUTER SKILLS"

On
17.03.2021 TO 28.04.2021

Organized By
DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

Under
FACULTY DEVELOPMENT PROGRAM(FDP)



RESOURCE PERSONS

K. NageswarRao, M.C.A., M.Tech., Ph.D.

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE(A), KHAMMAM

M. SrinivasaRao, M.C.A, M.Phil.

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE(A), KHAMMAM

Ch. Jamuna Rani, M.C.A, P.G.D.C.A

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE(A), KHAMMAM

J.V.S.Arundathi, M.Tech(Ph.D), UGC NET.

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE(A), KHAMMAM

K. UshaPavani, M.C.A, M.B.A

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE(A), KHAMMAM

G.Sudha Rani, M.C.A., M.Tech.

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE(A), KHAMMAM

V. PullaRao, M.C.A, P.G.D.C.A

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE(A), KHAMMAM

VENUE

Room No: 205, COMPUTER Lab 2

&

Room No: 232, COMPUTER Lab 3

COURSE NAME : BASIC COMPUTER SKILLS

S. No.	Nature of the Activity	Title of the Activity	Resource Persons	Duration	No. of Participants
1	Certificate Course	BASIC COMPUTER SKILLS(STAFF)	Dr. K. Nageswar Rao Ch. Jamunarani M. Srinivas Rao V.Pulla Rao J.V.S .Arundathi K.Usha pavani G.Sudharani	30 hrs (17.03.2021 to 28.04.2021)	30

Objectives:

- To know how to use the most common Microsoft Office programs.
- To be able to create documents for printing and sharing.
- To be able to create and share presentations.
- To be able to manage and store data in a spreadsheet.

Syllabus:

1. **KNOWING COMPUTER 1.0** Introduction ,Objectives , What is Computer? , Basic Applications of Computer , Components of Computer System , Central Processing Unit , Keyboard, mouse and VDU ,Other Input devices Other Output devices ,Computer Memory ,Concept of Hardware and Software ,Hardware ,Software ,Application Software ,Systems software.

2. **UNDERSTANDING WORD PROCESSING** Introduction , Objectives ,Word Processing Basics ,Opening Word Processing Package , Menu Bar , Using The Help , Using The Icons Below Menu Bar , Opening and closing Documents , Opening Documents , Save and Save as , Page Setup , Print Preview Printing of Documents , Text

Creation and manipulation , Document Creation , Editing Text , Text Selection , Cut, Copy and Paste, Spell check , Thesaurus ,Formatting the Text , Font and Size selection , Alignment of Text , Paragraph Indenting , Bullets and Numbering , Changing case , Table Manipulation , Draw Table , Changing cell width and height , Alignment of Text in cell , Delete / Insertion of row and column , Border and shading

3. USING SPREAD SHEET Introduction, Objectives , Elements of Electronic Spread Sheet , Opening of Spread Sheet , Addressing of Cells BCC – Version – 2/ Revision-1 (2015) Page , Printing of Spread Sheet , Saving Workbooks , Manipulation of Cells , Entering Text, Numbers and Dates , Creating Text, Number and Date Series , Editing Worksheet Data , Inserting and Deleting Rows, Column , Changing Cell Height and Width , Formulas and Function , Using Formulas , Function.

4. INTRODUCTION TO INTERNET, WWW AND WEB BROWSERS Introduction , Objectives , Basic of Computer Networks , Local Area Network (LAN) , Wide Area Network (WAN) , Internet , Concept of Internet , Applications of Internet , Connecting to the Internet , Troubleshooting , World Wide Web (WWW) , Web Browsing Softwares , Popular Web Browsing Softwares , Search Engines , Popular Search Engines / Search for content , Accessing Web Browser , Using Favorites Folder , Downloading Web Pages , Printing Web Pages , Understanding URL , Surfing the web , Using e-governance website.

5. MAKING SMALL PRESENTATIONS Introduction , Objectives , Basics , Using PowerPoint , Opening A PowerPoint Presentation , Saving A Presentation , Creation of Presentation , Creating a Presentation Using a Template , Creating a Blank Presentation , Entering and Editing Text , Inserting And Deleting Slides in a Presentation , Preparation of Slides , Inserting Word Table or An Excel Worksheet , Adding Clip Art Pictures , Inserting Other Objects , Resizing and Scaling an Object , Presentation of Slides , Viewing A Presentation , Choosing a Set Up for Presentation , Printing Slides And Handouts , Slide Show , Running a Slide Show , Transition and Slide Timings , Automating a Slide Show.





Faculty Attendance:

24/10/2021

1	N. Venkanna	Eco	NIU
2	P. Venkateswaraiah	History	Class
3	Dr. J. ANURADHA	Telugu	J Am
4	Ch. Murali	Eco	Class
5	T. Nagar	History	NIU
6	Dr. B. Chandra Murthy	Pol. Sci	Class
7	P. Venkateswaraiah	Telugu	Class
8	Dr. R. Seetha Ramulu	Telugu	Class
9	Dr. M. V. Ramaiah	Eco	Class
10	G. Shivaji	Eco	Class
11	Dr. P. Samsam Reddy	Commerce	Class
12	K. INDIRA	Eco	Class

25/10/2021

1	Dr. J. ANURADHA	Telugu	J Am
2	T. Nagar	History	NIU
3	P. Venkateswaraiah	Telugu	Class
4	Dr. R. Seetha Ramulu	Telugu	Class
5	N. Venkanna	Eco	NIU
6	Dr. Sarveswararao	History	Class
7	Ch. Venkateswaraiah	History	Class
8	Ch. Murali	Eco	Class
9	Dr. B. Chandra Murthy	Pol. Sci	Class
10	P. Venkateswaraiah	Telugu	Class
11	Dr. M. V. Ramaiah	Eco	Class
12	G. Shivaji	Eco	Class
13	Dr. P. Samsam Reddy	Commerce	Class
14	K. INDIRA	Eco	Class

11-03-2021

1	Dr. B. Chandra Murthy	Pol. Sci	Class
2	Dr. T. Nagar	History	NIU
3	P. Venkateswaraiah	History	Class
4	G. Shivaji	Eco	Class
5	P. Samsam Reddy	Commerce	Class
6	Ch. Venkateswaraiah	History	Class
7	N. Venkanna	Economics	NIU
8	P. Venkateswaraiah	Telugu	Class
9	Dr. J. ANURADHA	Telugu	J Am
10	K. INDIRA	Eco	Class
11	Ch. Murali	Eco	Class
12	Dr. R. Seetha Ramulu	Telugu	Class
13	P. Narasimha Murthy	History	Class
14	Dr. M. V. Ramaiah	Eco	Class

26/10/2021

1	Dr. B. Chandra Murthy	Pol. Sci	Class
2	P. Venkateswaraiah	History	Class
3	P. Venkateswaraiah	Telugu	Class
4	Dr. R. Seetha Ramulu	Telugu	Class
5	Dr. J. ANURADHA	Telugu	J Am
6	K. INDIRA	Eco	Class
7	Dr. P. SARVESWARARAO	Commerce	Class
8	G. Shivaji	Eco	Class
9	Ch. Venkateswaraiah	History	Class
10	Ch. Murali	Eco	Class
11	T. Nagar	History	NIU
12	P. Venkateswaraiah	Telugu	Class
13	Dr. M. V. Ramaiah	Eco	Class

CERTIFICATE:



SR&BGNR GOVT. ARTS & SCIENCE COLLEGE, (AUTONOMOUS)

KHAMMAM

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS



CERTIFICATE

This is to certify that Mr / Ms _____ has successfully completed "BASIC COMPUTER SKILLS" course conducted by the department of computer Science & Applications during 17th March 2021 to 28th April 2021.

N.SRINIVAS RAO

Co-ordinator

K.S.S RATNA PRASAD

Principal

Workshop / Training Participants

Institution Name SR & BGNR Government Arts and Science College (A), Khammam, Telangana
 Fees LibreOffice Suite Writer
 Date Jan 1 2020
 Participants Count 18
 Organizer ANURADHA PRATHIGADAPA

#	First Name	Last Name
1	VENU	SUREPALLI
2	NIKHIL	KOTA
3	SURESH	BANGTH
4	NAGA SAMPATH	VANGARU
5	HAZIBADA	SHAIK
6	SNEHA	URUKONDA
7	DEVENDER	MOODU
8	SURESH	PUTTASANTHI
9	ANIL KUMAR	THALLA
10	SONIYA	VANKUOOTH
11	ALIYAAZEEZ	SYED
12	KITTU	AZMEERA
13	AKHIL	YEPURI
14	GANESH	KALAMCHERLA
15	NARESH	PODILA
16	PRASHANTH	POTHLA
17	SUPRIYA	PERLA
18	ASHOK	VEESAM

List of online courses with participant count for the academic year 2020-2021

15	Telangana	Khammam	SR & BGNR Government Arts and Science College (A), Khammam	LibreOffice Suite Writer	B.A Batch 1	Mapped	ANURADHA	01 Jan 2021	64	View Participants
16	Telangana	Khammam	SR & BGNR Government Arts and Science College (A), Khammam	LibreOffice Suite Writer	B.A Batch 1	Mapped	ANURADHA	01 Jan 2021	37	View Participants
19	Telangana	Khammam	SR & BGNR Government Arts and Science College (A), Khammam	LibreOffice Suite Writer	B.COM (C) (Computers)	Mapped	ANURADHA	01 Jan 2021	62	View Participants

Thallu
 SR & BGNR
 Science College (A)
 Autonomous-KHAMMAM

☰ Workshop / Training Participants

Institution Name SR & BGNR Government Arts and Science College (A), Khammam, Telangana
Fees LibreOffice Suite Writer
Date Jan. 1, 2021
Participants Count 64
Organiser ANURADHA PRATHIGADAPA

#	First Name	Last Name
1	NAVEEN KUMAR	B
2	PAVAN	A
3	KESHAV	H
4	SURESH	P
5	VIJAYKUMAR	B
6	CHANDRAKANTH	G
7	RAJA	B
8	VENKATESH	S
9	NARESH	B
10	RAMBABU	K
11	BHASKAR	G
12	GOPI	G
13	RAVINDERBABU	T
14	UDAY KUMAR	K
15	MADHU	M
16	NAVEEN	B
17	SHAREEF	SK
18	SRIHARI	A
19	VENKATESWARLU	J
20	RAMESH	N
21	AJAY	R
22	NAGA KOTI REDDY	M
23	SAIRAM	B
24	LOKESH	P
25	SAMPATH	P
26	LAXMINARAYANA	K
27	PRASAD	Y
28	PAVAN KUMAR	T
29	NAGESWAR RAO	B

30	HANUGOPI	M
31	VENKATESH	N
32	MANOHAR	T
33	AMEER	SK
34	NARENDAR	K
35	VIJENDAR	B
36	BHARATH	CH
37	INDRAJA	Y
38	MANJULA	B
39	ANITHA	B
40	SAIRUPA	K
41	KASTHURI	E
42	SAILAJA	T
43	DIVYA	R
44	SRUTHI	B
45	RUBENA	SK
46	KEERTHI	CH
47	RENUKA	D
48	NAVYA SRI	V
49	BHAVANI	T
50	SHIREESHA	H
51	PRIYANKA	B
52	DEVAKI	L
53	RAMYA SRI	B
54	SAILAJA	B
55	NAVYA	L
56	ANURADHA	K
57	VENNELA	G
58	SANDHYA	A
59	MANOHAR	D
60	RAMESH	P
61	CHARAN NAIK	B
62	ARCHANA	ARCHANA
63	VINOD	V
64	VENKATESH	B

Workshop / Training Participants

Institution Name SR & BGNR Government Arts and Science College (A), Khammam, Telangana
 Foss LibreOffice Suite Writer
 Date Jan. 1 2021
 Participants Count 37
 Organizer ANURADHA PRATHIGADAPA

#	First Name	Last Name
1	VINODKUMAR	REGALL
2	MADHU	NAGULA
3	SUDHEERGH	KOTTE
4	PRANAYKUMAR	BHUKYA
5	KUMAR	BHUKYA
6	TELLURI LAXMAN	GARIKAPADU
7	BHANU PRAKASH	VAGABOINA
8	VAGGELA NARESH	NARESH
9	MOHAMMED RUVIDA	MOHAMMED
10	RIYAZ	SHAIK
11	VAMSHI	GADDAM
12	ANIL	GUGULOTHU
13	SHAREEF	SHAIK
14	CHANDRALEKHA	EMMADI
15	RAJASEKHAR	KOPPERA
16	MALLIKHARJUN	BANDAM
17	SRIRAM	LUNAVATH
18	SURESH	NARAPOGU
19	VINAY	BANDI VINAY
20	JOHN WESLY	NALLAMOTHU
21	NAVEEN	KANDHIMALLA
22	J.NAVEEN	JARPULA
23	PRAKASH KUMAR	YATHAKULA
24	SUMAN	BHATTU
25	PAVAN	SANGU
26	VAMSHI	DOREPALLI
27	NAGARJUNA	NAKKA

Prathigadapa

PRINCIPAL
 SR & BGNR Govt. Arts &
 Science College (NAAC-B++)
 Autonomous KHAMMAM

28	JASMEEN	SHAIK
29	SANWITHA	BAYYA
30	SAI	TEEGA
31	R. CHARAN KUMAR	RAVUTLA
32	RAMESHBABU	KANDULA
33	VELAKAM SANDHYA	VELAKAM
34	ASHOK KUMAR	VANKUDOTH
35	SAI SHIVA	ANUGOJU
36	GOPIRATHOD	BHUKYA
37	B.VINAY KUMAR	BATHULA

Workshop / Training Participants

Institution Name SR & BGR Government Arts and Science College (A), Khammam, Telangana
 Place LibraOffice Dula Wiler
 Date Jan. 1 2021
 Participants Count 62
 Organizer ANURADHA PRATHIGADAPA

#	First Name	Last I
1	HARIKRISHNA	D
2	MADHU	B
3	PRASHANTH	D
4	NAGARAJU	D
5	VENKATESH	V
6	SALAJI	B
7	PRASAD	B
8	ASIF	SK
9	MURALI	B
10	KUTUBUDDIN	SK
11	CHANDRASHEKAR RAJU	J
12	PAPARAO	P
13	PARIMALA	B
14	MANOHAR	K
15	VENKATESWARAO	CH
16	KALYAN	B
17	MAMESH	V
18	SURYA	K
19	SANDEEP	G
20	SESHUKUMAR	T
21	NAYEEM	SK
22	VAMSHI	K
23	JEVAN	K
24	JOHNY	SK
25	HANEEF	SK
26	ARIF	SK
27	GANESH	CHAI
28	SUNIL	G

29	NAGA VAMSHIKRISHNA	A
30	RANJITH	T
31	SAIDA	SK
32	VENKATA SAI	K
33	NAGARAJU	J
34	NAVEEN	K
35	SAICHANDRASHEKAR	D
36	ANUSHA	K
37	BHAVANA	P
38	BHARATHI	A
39	DIVYA SRI	G
40	DIVYA	D
41	SIRISHA	P
42	UDAYKUMAR	Y
43	NIROSHA	I
44	SHIREESHA	N
45	SAI KUMAR	B

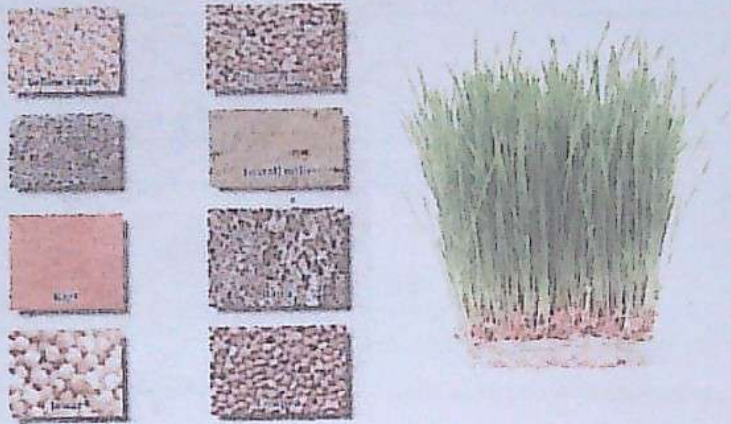
46	SHIVAJI	J
47	MAMASA	G
48	TOPTHREEKARRAMAGESHU	P
49	BHANU	DHAN
50	MAHESH	N
51	RAJU	P
52	SANDEEP	K
53	JAYASHRAGAVI	CH
54	JAYENDHAR	B
55	SUSHANI	SK
56	USMAN ALIPASHA	SK
57	KAVYA	G
58	SRAVANI	N
59	SHIVA	M
60	KISHORE	B
61	ASHOK KUMAR	V
62	VIGNESH	D

2020-2021

DEPARTMENT OF BIOTECHNOLOGY
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE, KHAMMAM

CERTIFICATE COURSE

Production of Green fodder by Hydroponic Technology



Resource person

G. Raghu

Assistant professor of Biotechnology & Incharge

**DEPARTMENT OF BIOTECHNOLOGY
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE, KHAMMAM**

CERTIFICATE COURSE

Title of the course	No of modules	No of hours for each module	Total no of hours
Production of Green fodder by Hydroponic Technology	Module -1 (Theory)	4 hours	30 hours
	Module -2 (Hands on training)	26 hours	

COURSE CONTENT

S.no	No of the module	Content of the module
1	Module-1	Hydroponics and Green fodder: Definition, Nutritional value of green fodder, Importance of Hydroponic green fodder, types of Hydroponic fodder.
2	Module-2	Production of Hydroponic fodder from maize, horse gram, sunhemp and jowar.

roduction:

Green fodder is considered as the natural diet for livestock. Its production to meet the current demand has become a challenging task among livestock farmers. Due to several reasons, green fodder production has been facing crisis and so the livestock productivity. Due to increasing intensive system of rearing livestock, the need for green fodder is enormous. As the gap between the demand and supply of the green fodder for livestock becoming unconquerable, researchers and farmers are in search for an alternative fodder or fodder production method, that would restore fodder and livestock production.

Hydroponics technology has revolutionized the green fodder production in the 21st century. Hydroponics is a method of growing green fodder without soil in an environmentally controlled houses or machines. Many of the livestock farmers are switching to hydroponic fodder production from conventional production methods, as the fodder produced by this method are highly nutritious, provide sustainable fodder production round the year and conserve water.

Module-1 (4 hours)

Hydroponics and Green Fodder:

The word hydroponics has been derived from the Greek word 'water working'. Hydro means 'water' and ponics means 'working' and it is a technology of growing plants without soil, but in water or nutrient rich solution for a short duration in an environmentally controlled houses or machine.

"Fodder" refers particularly to food given to the animals (including plants cut and carried to them), rather than that which they forage for themselves in pasture and grazing land. It includes hay, straw, silage, compressed and pelleted feeds, oils and mixed rations, and also sprouted grains and legumes.

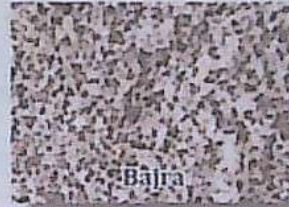
Hydroponic green fodder means "Fodder grown using hydroponics technology".

Nutritional value of Green fodder

1. Natural diet for animals.
2. Improves fat and protein percentage in milk.
3. Rich in beta carotene and minerals that help in the synthesis of vitamin A.
4. Vitamin A has greater impact on reproduction.

Types of Hydroponic fodder

Yellow Maize, Cowpea, Horse gram, Sun hemp, Ragi, Bajra, Foxtail millet and Jowar has been grown successfully given good response from the livestock as a fodder.



DEPARTMENT OF BIOTECHNOLOGY
SR & BGNR GOVT. ARTS & SCIENCE COLLEGE, KHAMMAM

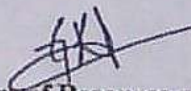
List of Students for certificate course (attended and completed) 2020-2021

S.no	Registered no	Student name	6/4	7/4	8/4	9/4	10/4	12/4
1	26213301 (BTBC)	Banoth santhosha	P	P	P	P	P	P
2	26213302	Banoth shiva	P	P	P	P	P	P
3	26213303	Eesam swathi	P	P	P	P	P	P
4	26213304	Gollamudi sravani	P	P	P	P	P	P
5	26213305	Gorintla srilaxmi	P	A	P	P	P	P
6	26213306	Itikala hari krishna	P	P	P	A	P	P
7	26213307	Jadi mahendar	P	A	P	P	P	P
8	26213308	Jogu rajesh	P	P	P	P	P	P
9	26213309	Muddishetti vedhika	P	P	P	P	P	P
10	26213451(BTBZ)	Balamala rakesh	P	A	P	P	P	P
11	26213452	Banoth vinod kumar	P	P	P	A	P	P
12	26213453	Batta sunil	P	P	P	P	P	P
13	26213454	Battu dharani	P	A	P	P	P	P
14	26213455	Bhupala geethika	P	P	P	P	P	P
15	26213456	G mounika	P	P	P	P	P	P
16	26213457	G preethima	P	P	P	P	P	P
17	26213458	G lakshmi prasanna	P	P	P	P	P	P
18	26213459	Majji mani rathnam	P	P	P	A	P	P
19	26213460	Mandadapu madhu	P	P	P	P	P	P
20	26213501(MBBTC)	Beerelli pullarao	P	A	P	P	P	P
21	26213502	Gangula upasree	P	P	P	P	P	P
22	26213503	Podugu rohith	P	P	P	P	P	P
23	26213504	Talluri saidarao	P	P	P	P	P	P
24	26213505	Tellajoywilliams	P	P	P	A	P	P

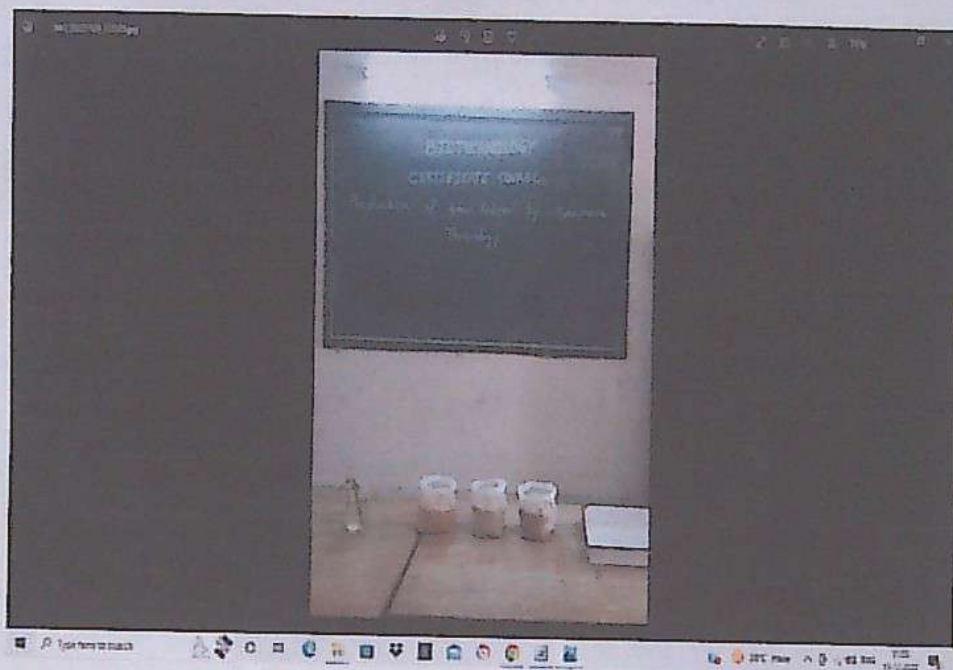
	26213551(MBBTZ)	Enapa vamshi	P	A	P	P	P	P
26	26213552	Gudidhi nikhil	P	P	P	P	P	P
27	26213553	Gundu meghana	P	P	P	P	P	P
28	26213554	Manda prakash	P	P	P	A	P	P
29	26213555	Meda haritha	P	P	P	P	P	P

Dates of certificate course 2020-21: 06-04-2021 to 12 -04-2021

Total no of students: 29


Signature of Resource person

2020-2021





SR & BGNR GOVT. ARTS & SCIENCE COLLEGE (A)

(Reaccredited at B++ by NAAC) (An ISO 9001 . 2015 Institution)

KHAMMAM, TELANGANA STATE.

DEPARTMENT OF PHYSICS

- **Skill Enhancement Course**
- **With Hands - on Experience**
- **By Experienced Faculty**

Certificate Course in

Home Electrician



SR&BGNR GOVT. ARTS & SCIENCE COLLEGE (A)

KHAMMAM

Department of Physics
Syllabus for Certificate course
on
Home Electrician

THEORY SYLLABUS

UNIT I

Basics of Electrical Engineering: Electric current - conductors - insulators Semi-conductors-Electric potential-Resistance-Ohm's Law - Resistances in series and parallel. Work, power and energy. Simple problems on power and energy. Problems on energy consumption and monthly billing. [4 Hours]

UNIT II

Safety Precautions - First Aid Precaution to be taken of various stages (while handling tools, during wiring etc) - electric fire-precautions against shocks-first aid artificial respiration. Case Studies. [4 Hours]

UNIT III

Wiring instruments: uses, sizes and handling precautions of various wiring tools. Wiring accessories: Switches, Sockets & Tops, Lamp holders, Ceiling roses, Round blocks, Main switches - distribution boards, Fuses and MCBs, Cables- and specifications. [6 Hours]

UNIT IV

Wiring Systems: Energy Distribution Systems - Distribution Board System, Wiring Circuits: Simple Lamp circuits - staircase wiring, Tube Light Circuit. Soldering of Components, ICs, wires, cables and their joints in gadgets. Earthing - Necessity, Methods of Earthing. [6 Hours]

PRACTICALS SYLLABUS

[12 Hours]

1. Measurement of power of an Appliance / Circuit
2. Determining the Fusing Current of a fuse
3. Practice of wiring on
 - i) one lamp controlled by one switch
 - ii) Two lamps controlled by one switch
 - iii) Stair case wiring
 - iv) Tube light wiring

4. Domestic Appliances:

Tube light,
Ceiling Fan,
Electric Iron Box,
Electric Stove,
Immersion Heater,
Geyser,
Table lamp,
Mixer,
Grinder.



classmate

Date

Page

classmate

Date

Page

S NO	Name of the student	H no	Signature
1.	Balanaveen	2619-4413	S. Naveen
2.	Ch. puja	2619-4417	B. Puja Ch/Pur
3.	G. Naveenkumar	2619-4404	G. Naveen
4.	Govind Venkatanarayana	2619-4436	Govind Venkatanarayana
5.	Vemula Sri Kumar	2619-4449	Vemula sukuma
6.	Yagna Indhu Priya	2619-4452	Yagna Indhu Priya
7.	Mekala vamsi	2619-4303	M. Vamsi
8.	Palem Anandapal	2619-4316	P. Anandapal
9.	Nidigonda Mahesh	2619-4433	N. Mahesh
10.	Tejavath Rajkumar	2619-4442	T. Rajkumar
11.	Neti Sravankumar	2619-4311	N. Sravankumar
12.	Palla Balaji	2619-4312	P. Balaji
13.	Priya Mahesh Babu	2619-4324	P. Mahesh Babu
14.	Malladi Sandhya	2619-4295	M. Sandhya
15.	Javupala Naveen	2619-4268	J. Naveen
16.	Kasam Ramya	2619-4276	K. Ramya
17.	Togati Akitha	2619-4445	T. Akitha
18.	Kamaram Balaswamy	2619-4626	K. Balaswamy
19.	Mareddy Swathi	2619-4634	M. Swathi
20.	Mittapalli Babu	2619-4638	M. Babu
21.	Velamasa Ravi	2619-4640	V. Ravi
22.	Pranga Devula Anil	2619-4616	P. Anil
23.	Arula Lingaraju	2619-4602	A. Lingaraju
24.	Kasali Nithish Kumar	2619-4624	K. Nithish Kumar
25.	Sivarathi Anusha	2619-4657	S. Anusha
26.	Noru Mahender	2619-4648	N. Mahender
27.	Ramineni Rakesh	2619-4640	K. Rakesh
28.	Fatinaveen	2619-4657	T. Naveen
29.	Pilli Gopichandru	2619-4325	P. Gopichandru

classmate

Date

Page

S.No	Student Name	H.No	Signature
36	Seema Sathi Upendra	2619-4349	S. Upendra
37	Suvarabina Bhavana	2619-4352	S. Bhavana
38	Tejavathi Renuka	2619-4355	T. Renuka
39	Ravula Shilpa Teja	2619-4333	R. Shilpa Teja
40	Meesala Yamini	2619-4636	M. Yamini
41	Yadra Sushma	2619-4373	Y. Sushma
42	Vemula Sujitha	2619-4371	V. Sujitha
43	Maitoth Manjunath	2619-4631	M. Manjunath
44	Banabari Venkataramma	2619-4263	B. Venkataramma
45	Bada Rakesh	2619-4226	B. Rakesh
46	Erappa Harikrishna	2619-4313	E. Harikrishna
47	Keloth Sudhakar	2619-4332	K. Sudhakar
48	Mandu Shivaji	2619-4327	M. Shivaji
49	Duggi Manika	2619-1312	D. Manika
50	Vajja Rajesh	2619-1845	V. Rajesh
51	Shaik Johnny	2619-1222	S. Johnny
52	Silla Vineetha	2619-1212	S. Vineetha
53	Banoth Venkatesh	2619-1229	B. Venkatesh
54	Tangella Gopi	2619-1244	T. Gopi
55	Kaile Praveenkumar	2619-1212	K. Praveenkumar
56	Nidalela Pavan	2619-1116	N. Pavan
57	Bada Nareesh	2619-1106	B. Nareesh
58	Banoth Mohan	2619-1127	B. Mohan
59	Kella Navya	2619-1144	K. Navya
60	Thotamalla Navneen	2619-1144	T. Navneen
61	Gaddevela Prabhakar Rao	2619-1219	G. Prabhakar Rao
62	Kopala Praveen	2619-1219	K. Praveen
63	Gajjala Pradeep	2619-2700	G. Pradeep
64	Daravath Hari	2619-2635	D. Hari

classmate

Date

Page

S.No	Student Name	H.No	Signature
65	Dubba Vinay	9690	Dubba Vinay
66	Dharavath Anilkumar	2684	D. Anilkumar
67	ESam Sravani	2693	E. Sravani
68	Jada Renuka	2733	J. Renuka
69	Tilla Raju	2742	T. Raju
70	Gunnamalla Anupama	2720	G. Anupama
71	Guggilla Sandeep	2715	G. Sandeep
72	Jarupela Venkatesh	2738	J. Venkatesh
73	Karla Hemant	2756	K. Hemant
74	Kath Akhil	2759	K. Akhil
75	Shaik Moulana	2461	S. Moulana
76	P. Venkatesh	2447	P. Venkatesh
77	G. Pallavi	2427	G. Pallavi
78	B. Madan	2408	B. Madan
79	Kodi Uday Kiran	4281	K. Uday Kiran
80	Kammaganti Srihari	422	K. Srihari
81	Kella Asokh	4286	K. Asokh
82	Manapragada Charansai	4633	M. Charansai
83	Tati Navneen	4658	T. Navneen
84	Nitta Ravikumar	4641	N. Ravikumar
85	Saranla Divesh	4619	S. Divesh

PUBLIC SPEAKING COURSE

SCHEDULE & SYLLABUS (31 hours) 2019-20

Course Coordinator: Dr. R. Seetharama Rao, Assistant Professor of Telugu

DAY	TOPIC
1.	Pretest/ Introductory Speech
2.	Basic Communication Theory
3.	Becoming A Public Speaker
4.	Preparing Your Speech
5.	Ethical Public Speaking
6.	Managing Speech Anxiety
7.	Organizing The Speech
8.	Speech Assignments / Practice
9.	Outlining The Speech
10.	Developing The Introduction
11.	Developing The Body
12.	Developing The Conclusion
13.	Developing Supporting Material
14.	Developing Arguments
15.	Speech Assignments / Practice
16.	Verbal Communication
17.	Non-Verbal Communication
18.	Effective Communication
19.	Confronting Your Fears
20.	Knowing Your Audience
21.	Speech Assignments / Practice
22.	Speech Assignments / Practice
23.	Controlling Your Voice
24.	Rehearsing Your Speech
25.	Developing Your Style
26.	Using The Internet To Support Your Speech
27.	Using Presentation Aids In The Speech/Ppt
28.	Special Occasion Speeches
29.	Speech Assignments / Practice
30.	Speech Assignments / Practice
31.	Grand Test/Final Speech



**SR & BGNR GOVERNMENT ARTS & SCIENCE COLLEGE (A)
KHAMMAM :: TELANGANA - 507 002**

**Value Added Course on
Public Speech Writing**

Certificate

This is to certify that

Mr/ Ms

Class of SR & BGNR GOVERNMENT Arts &
Science College(A), Khammam has successfully completed the

Value Added Course organized by the Department of

.....
from 02-09-2020 to 04-10-2020

Co-ordinator

Principal

15 20-21

Board of Studies Meeting

Date: 22-07-2020

The Board of Studies (B.O.S) meeting is held in the Department of Botany, SR & BANR Government Arts and Science (A) College, Khammam, under the Chairmanship of Dr. G. Valya on 22-07-2020 at 11:00 AM - 12:00 Noon.

1. Dr. G. Valya
2. Dr. M. Surekha, Department of Botany, K.U (Warangal)
3. B. Praveena. - I.D.Eo. Khammam.
4. Dr. S. Ramesh Mohan Rao, College Alumni & Subject Expert.
5. Dr. Ch. Ramesh Babu, College Alumni & Subject Expert.
6. M.A. Asif (member)
7. Dr. Ch. Chaitanya (member)
8. S. Babu (member)
9. G. Surendra Reddy (member)

The Agenda of the B.O.S meeting is as follows:

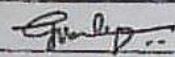
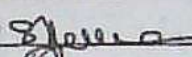

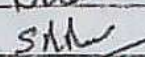
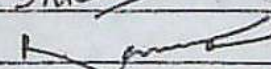



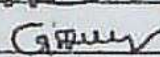
- 1) For the approval of BSc Botany II year Theory and Practical syllabus for Semester III and Semester IV under CBCS pattern for the Academic year 2020-2021.
 - 2) For the approval of BSc Botany II year Theory and Practical Model Question Paper for Semester III and Semester IV under CBCS pattern for the academic year 2020-2021.
 - 3) For the approval of list of Panel of Examiners.
 - 4) syllabus for value added courses ~~Musium Technology~~ and Biofertilizers organic farming
- The following resolutions are made Unanimously

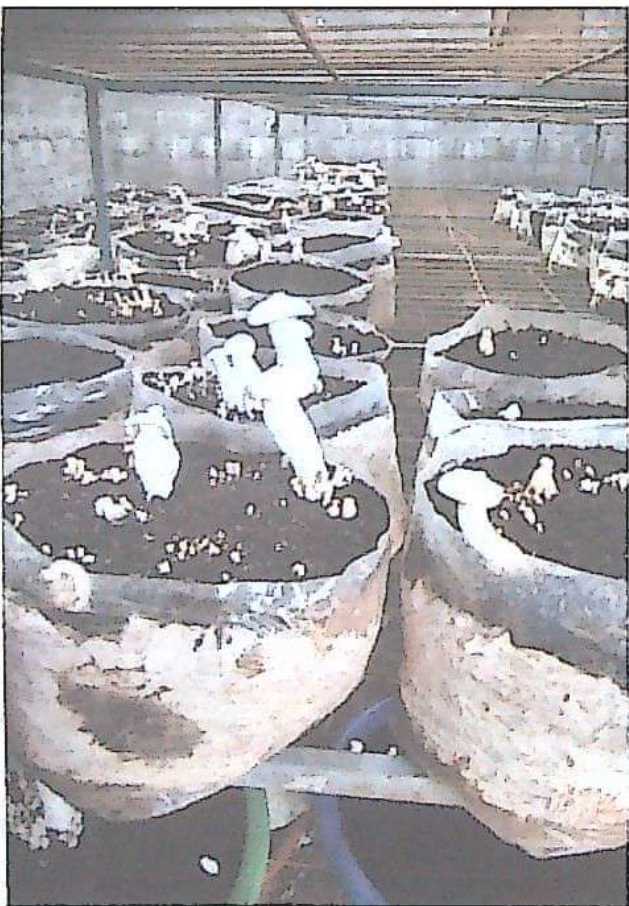
- 1) The proposed syllabus for Theory and Practical for II year, Semester III and Semester IV are approved.
- 2) The proposed model question paper for the theory

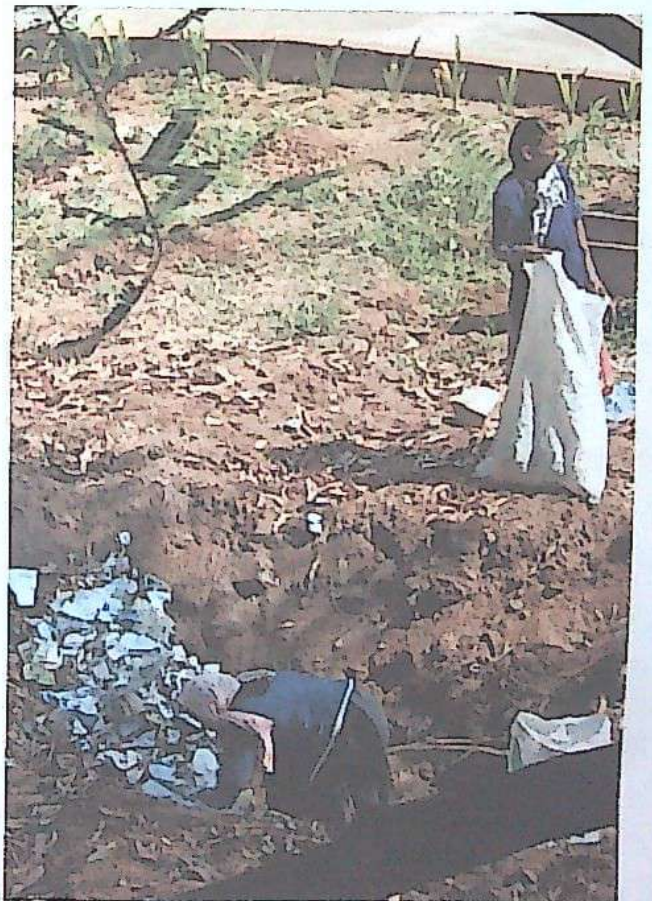
and practical examinations for II year, Semester III and Semester IV are approved.

- 3) The proposed list of Panel of Examiners is approved.
 4) It is resolved syllabus for Mushroom Technology and Biofertilizer Organic Farming Approved

Signatures.

- 1) Dr. G. Valya 
- 2) Dr. M. Surekha, Dep (B.D.S) 
- 3) B. Praveena C.D.P.O. 
- 4) Dr. S. Rama Mohan Rao 
- 5) Dr. Ch. Ramesh Babu 
- 6) Sri M.A. Asif 
- 7) Dr. Ch. Chaitanya 
- 8) Sri. S. Babu 
- 9) Sri. G. Surendara Reddy. 





About the College

S.R & B.G.N.R Government Arts and Science College was established in 1956 to cater the Educational needs of the Rural and Backward areas in and around Khammam town. Ever since then, the college is catering to the needs of the downtrodden, weaker and marginalized sections of the society.



OBJECTIVES:

The objective of the course is to learn Financial Literacy, Financial Discipline and how to behave in the Financial and Insurance Sector. Financial literacy is the cognitive understanding of financial components and skills such as budgeting, investing, borrowing, taxation, and personal financial management. The absence of such skills is referred to as being financially illiterate. Financial literacy is the confident understanding of concepts including saving, investing and debt that leads to an overall sense of financial well-being and self-trust. It starts by building basic knowledge of money matters, and improve on self financial discipline and to meet the pace of the growing overall financial knowledge.



CERTIFICATE COURSE

on

FINANCIAL LITERACY

On

23-02-2021 To 20-03-2021

Organized By

Department of Commerce & Business Management

SR & BGNR GOVERNMENT ARTS & SCIENCE COLLEGE

**AUTONOMOUS
KHAMMAM**

Organizing Committee

Dr. P. Sarveswar Rao
Dr. A.R. Satyavathi
Dr.S,Narayana Swamy
S.Ramesh
Dr. Sreenivas Dadigala

VENUE

Room No-237

SR & BGNR GOVERNMENT ARTS & SCIENCE COLLEGE(A)-KHAMMAM
DEPARTMENT OF COMMERCE AND BUSINESS MANAGEMENT
CERTIFICATE COURSE-2020-21-(1)
FINANCIAL LITERACY

Preamble:

Financial literacy is the cognitive understanding of financial components and skills such as budgeting, investing, borrowing, taxation, and personal financial management. The absence of such skills is referred to as being financially illiterate. Financial literacy is the confident understanding of concepts including saving, investing and debt that leads to an overall sense of financial well-being and self-trust. It starts by building basic knowledge of money matters, and improve on self financial discipline and to meet the pace of the growing overall financial knowledge.

Objective:

The objective of the course is to learn Financial Literacy, Financial Discipline and how to behave in the Financial and Insurance Sector.

Expected Job Roles:

- Assistant Manager in Finance and Insurance sector

Duration:

30 Hours - (Theory: 30 hrs)

COURSE CODE:VACFL

Course Outline:

Sl. No	Module Title	Duration (Hours)		
		Theory		Total
1	Financial Literacy (divided in 06 units)	30		30
	Total Duration	30		30
	Total Credits	4		4

Detailed Syllabus and Learning Outcome:

S. No	Module Title (Tally) / Units	Topics	Learning Outcome	
			Theory	
1	Unit-1- Banking	Banking Concepts-types of accounts-KYC norms-EMI-CIBIL.	5	After successful completion of the module, the students shall be able to: <ul style="list-style-type: none"> • Basic Knowledge of

SR & BGNR GOVERNMENT ARTS & SCIENCE COLLEGE(A)-KHAMMAM
 DEPARTMENT OF COMMERCE AND BUSINESS MANAGEMENT
 CERTIFICATE COURSE-2020-21-(1)
 FINANCIAL LITERACY

				Banking Concepts and different types of accounts, norms of KYC etc.,
2	Unit-2- Investment	PF- Shares, Debentures-Mutual Fund -NPS	5	After successful completion of the module, the students shall be able to: <ul style="list-style-type: none"> • Know the Shares, types of shares • Meaning of Debentures and types of Debentures • Know the Pooling Mutual Fund and Management of Mutual Fund
3.	Unit-3- Insurance	Concept of Insurance- Types of Plans-IRDA- Nomination- Claims Settlement.	5	After successful completion of the module, the students shall be able to: <ul style="list-style-type: none"> • Learn the concept of Insurance Plans and IRDA Nomination. • How to Claims Settlement
4.	Unit-4- Financial Planning	Concept- Important life stages- Social Obligations - Retirement Planning.	5	After successful completion of this module, students should be able to: <ul style="list-style-type: none"> • Importance of Life Stages. • To Know the Social Obligations • How to set Retirement Planning.

SR & BGNR GOVERNMENT ARTS & SCIENCE COLLEGE(A)-KHAMMAM
DEPARTMENT OF COMMERCE AND BUSINESS MANAGEMENT
CERTIFICATE COURSE-2020-21-(1)
FINANCIAL LITERACY

5.	Unit-5-Use of Technology Do and Don'ts.	Preparation of Vouchers- (Payment, Receipt, Journal, Contra, Purchase, Sales, Return Inward/Outward Voucher)	5	After successful completion of the module, the students shall be able to: • Importance of Life Stages. Use ATM-Internet Banking. • Online Trading and Internet Banking
6.	Unit-6-Taxes	Concept of Taxes-Types-Tax Planning Vs Tax evaluation.	5	After successful
Total Hours = 30			30	

Examination & Certification:

Sl No	Examination Pattern	Duration	in	Maximum Marks
1	Theory Paper - 1	60		40
2	Assignment -1	60		10
	Total	120		50

Examination pattern will be followed for Examination & Certification.

Note:

1. Pass percentage would be 50% marks in each component, with aggregate pass percentage of 50% and above.
2. Grading will be as under:

Grade	S	A	B	C	D
Marks Range (in %)	$\geq 85\%$	$\geq 75\%$ - $< 85\%$	$\geq 65\%$ - $< 75\%$	$\geq 55\%$ - $< 65\%$	$\geq 50\%$ - $< 55\%$

3. Theory examination would be conducted offline and the paper comprise of MCQ and each question will carry 1 mark.
4. Assignment would be evaluated internally.

Faculty & Support / Lab Instructor:

1. One Faculty having M.Com/B.Com with relevant experience in Finance.
2. One Support staff member having with relevant experience in Finance.

SR&BGNR GOVERNMENT ARTS & SCIENCE COLLEGE(A)- KHAMMAM

DEPARTMENT OF COMMERCE AND BUSINESS MANAGEMENT

CERTIFICATE COURSE-ACCOUNTING IN TRADE FINANCIAL L. TERACY

STUDENTS ATTENDANCE-ACADEMIC YEAR 2020-21-(B.Com. Gen. T/M)

Sl. No.	Hallticket No.	Name of the Student	ATTENDANCE																
			Feb-21		Mar-21														
			23	24	1	2	3	5	8	9	10	12	15	16	17	19	20		
1	26192401	P.SUNIL	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P		
2	26192413	CH.NAVEEN	A	P	P	P	P	P	A	P	P	P	P	A	P	P	P		
3	26192422	E.SIRISHA	P	P	P	P	P	A	P	P	P	A	P	P	P	P	A		
4	26192426	G.MANASA	P	A	P	P	A	P	P	P	P	P	A	P	P	P	P		
5	26192427	G.PALLAVI	P	P	A	A	P	P	P	P	P	A	P	P	P	P	A		
6	26192431	L.NIRUSHA	P	P	P	P	P	A	P	A	P	P	P	A	P	P	P		
7	26192432	J.PRIYANKUMAR	A	P	P	P	P	P	P	P	A	P	P	A	P	P	A		
8	26192434	K.STALIN	P	P	P	A	P	P	A	P	P	P	A	P	P	P	P		
9	26192438	M.PAUL	P	P	A	P	P	A	P	P	P	A	P	P	P	P	A		
10	26192446	P.RAJU	A	P	P	A	P	P	A	P	P	P	A	P	P	P	P		
11	26192447	P.VENKATESH	P	P	A	P	P	P	P	P	A	P	P	P	A	P	P		
12	26192448	P.UDAYASHANU	P	A	P	P	P	A	P	P	P	P	A	P	P	P	P		
13	26192449	P.GOPI	A	P	P	P	A	P	P	P	P	A	P	P	P	P	A		
14	26192450	P.TRIVENU	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P		
15	26192452	P.SWAINA LATHA	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P		
16	26192455	P.BHAVANI	P	P	P	A	P	P	A	P	P	P	A	P	P	P	P		
17	26192456	P.UPENDAR	P	A	P	P	P	A	P	P	P	A	P	P	P	P	A		
18	26192461	SK.NOULANA	A	P	P	P	P	A	P	P	P	P	A	P	P	P	A		
19	26192462	ER.NAGUL MEERA	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P		
20	26192463	SK.NASREEN	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P		
21	26192468	T.SHANKARAO	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P		
22	26192472	Y.UDAY	P	A	P	P	P	P	P	A	P	P	P	P	A	P	P		
23	26192473	B.NARESH	P	P	P	A	P	P	P	P	A	P	P	P	P	P	A		
24	26192474	B.SUJATHA	A	P	P	P	P	A	P	P	P	A	P	P	P	P	A		
25	26192475	B.SAIKAUMAR	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P		
26	26192476	B.DIVYA	P	A	P	P	P	A	P	P	P	P	P	A	P	P	P		
27	26192477	B.VINAY	P	P	P	P	A	P	P	P	P	P	A	P	P	P	A		
28	26192478	B.PRIYANKA	P	P	P	A	P	P	P	P	A	P	P	P	P	A	P		
29	26192479	CH.VENKATA	P	P	A	P	P	P	P	A	P	P	P	P	A	P	P		
30	26192480	CH.UPENDRA RAO	A	P	P	P	P	A	P	P	P	A	P	P	P	P	P		
31	26192481	CH.NAVEEN	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P		
32	26192482	CH.SRINU	P	P	P	A	P	P	P	P	P	A	P	P	P	P	A		
33	26192483	D.SRAVANI KUMARI	P	P	A	P	P	P	P	P	P	P	A	A	P	P	P		
34	26192484	D.SWARUPA	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P		
35	26192486	G.DEVSINGH	P	P	P	P	P	A	P	P	P	A	P	P	P	P	A		
36	26192493	K.PRANEETH	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P		
37	26192494	K.PRAVEEN	P	P	P	P	A	P	P	P	P	P	P	P	A	A	P		

38	26192495	K.SHYAM	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A
39	26192496	K.RAHUL	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
40	26192498	K.LAXMI	P	A	P	P	P	A	P	P	A	P	P	P	P	A	P	P
41	26192500	M.ASHA	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P
42	26192502	N.NAVEEN	P	P	P	A	P	P	P	P	P	A	P	P	A	P	P	P
43	26192503	N.SIRISHA	P	P	P	P	A	P	P	P	P	P	A	A	P	P	P	P
44	26192504	N.UPENDAR	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A
45	26192505	P.LOKESH	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
46	26192506	P.DURGA	P	A	P	P	P	A	P	P	P	P	P	P	P	P	A	P
47	26192508	P.GOPI	P	P	A	A	P	P	P	A	P	P	P	P	P	P	A	P
48	26192509	P.ASWINI	A	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P
49	26192511	R.RAMBABU	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P
50	26192512	SH.MUNEER	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	A

(Handwritten signature)

P. Sarveswar Rao

SR & BGNR GOVERNMENT ARTS & SCIENCE
COLLEGE(A)

DIST: KHAMMAM, TELANGANA



CERTIFICATE COURSE/ VALUE ADDED COURSE

Certified that Ms./Mr. _____ S/o D/o _____
bearing Registered Number _____ attended *FINANCIAL LITERACY* Certificate/Value
- Added course conducted by _____ department from 23.02.2021 to 20.03.2021 and
successfully achieved _____ grade.

Course Coordinator

Principal

: SR&BGNR Govt. ARTS & SCIENCE COLLEGE(A), KHAMMAM.

DEPARTMENT OF ECONOMICS
CERTIFICATE COURSE-2020-21
CONSUMERISM

Objective :

The objective of the course is to learn Consumerism, Marketing Skills and how to behave in the Self Employment Skills.

Duration :

30 Hours(Theory : 30 hrs)

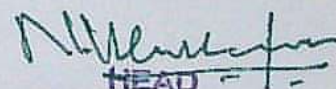
Course Outline :

Sl.No.	Module Title	Duration (Hours)		
		Theory		Total
1	Consumerism	30		30
	Total Duration	30		30
	Total Credits	4		4

Detailed Syllabus and Learning Outcome :

Syllabus

S.No.	Week	Topics
1	Week 1	Introduction to Consumer Behaviour Segmentation and Brand Positioning
2	Week 2:	Consumer Decision Making, Perception
3	Week 3	Learning,
4	Week 4	Consumer Behaviour in Practice


HEAD

Department of Economics
SR&BGNR Govt. Arts & Science College (A)
Khammam Telangana.

SR&BGNR Govt. ARTS & SCIENCE COLLEGE(A), KHAMMAM.
DEPARTMENT OF ECONOMICS
CERTIFICATE COURSE-2020-21
MARKET SKILLS

Objective :

The objective of the course is to learn Consumerism, Marketing Skills and how to behave in the Self Employment Skills.

Duration :

30 Hours(Theory : 30 hrs)

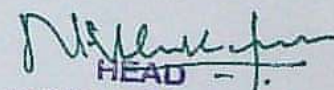
Course Outline :

Sl.No.	Module Title	Duration (Hours)		
		Theory		Total
1	Market Skills	30		30
	Total Duration	30		30
	Total Credits	4		4

Detailed Syllabus and Learning Outcome :

Syllabus

S.No.	Week	Topics
1	Week 1	Nature and scope of Management
2	Week 2.	Selling Function
3	Week 3	Approaching Customer, Retail and Whole sale
4	Week 4	Motivation and Moral sales person,


HEAD
 Department of Economics
 SR Govt. Arts & Science College (A)
 Khammam Telangana.

SR&BGNR Govt. ARTS & SCIENCE COLLEGE(A), KHAMMAM.
DEPARTMENT OF ECONOMICS
CERTIFICATE COURSE-2020-21
SELF EMPLOYMENT SKILLS

Objective :

The objective of the course is to learn Consumerism, Marketing Skills and how to behave in the Self Employment Skills.

Duration :

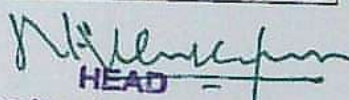
30 Hours(Theory : 30 hrs)

Course Outline :

Sl.No.	Module Title	Duration (Hours)		
		Theory		Total
1	Self Employment Skills	30		30
	Total Duration	30		30
	Total Credits	4		4

Syllabus

S.No.	Week	Topics
1	Week 1	Meaning and scope of Self Employment
2	Week 2	Skills Improvement Methods
3	Week 3	Training Centers / Capital, Investment
4	Week 4	Production Product sales


HEAD
Department of Economics
SR Govt. Arts & Science College (A)
Khammam Telangana.

(3)

SR & BGNR Govt. Arts & Science College Khammam (A)

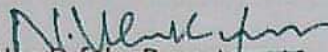
Department of Economics

Short term Certificate Course Students list for the

Academic Year 2020-21; **MARKETING SKILLS**

S.No	H.T. NO.	Applicant Name	Gender
1	2620-1002	AMARLAPUDI RAJESH	M
2	2620-1041	DHARAVATH SHIRISHA	F
3	2620-1042	DHARMARAPU AJAY	M
4	2620-1043	DONAKONDA UDAY	M
5	2620-1074	KONDRU MYNA	F
6	2620-1204	KAMA SANDEEP	M
7	2620-1301	MOOD GOWTHAMI	F
8	2620-1304	PAKIRAM PAVAN KALYAN	M
9	2620-1401	AMADALA JEEVAN KUMAR	M
10	2620-1402	AMGOTH VAMSHI	M
11	2620-1403	ANKAM GANESH	M
12	2620-1703	ESLAVATH RAVINDAR	M
13	2620-1801	CHALLAGANI ABHILASH	M
14	2620-1901	PERIKA SAI KUMAR	M
15	2620-1902	PEDDAPONGU RAVINDAR	M
16	2620-1903	GIDDE SAIKIRAN	M
17	2620-1904	RENTALA ROHIT	M
18	2620-2001	AVIRENI SANDEEP	M
19	2620-2101	AKKINAPALLI NAGARAJU	M
20	2620-2120	GUGULOTH HUSSAIN	M
21	2620-2125	KORLAPATI KIRAN KUMAR	M
22	2620-2126	KOTA ANUDEEP	M
23	2620-2127	KUNJA NITHIN	M
24	2620-2128	KURSAM VENKATESH	M
25	2620-2201	ALLADI NANDINI	F
26	2620-2223	BHUKYA ROHITH	M
27	2620-2224	BHUKYA THARUN	M

28	2620-2300	SAPAVATH GANESH	M
29	2620-2301	SEELAM KIRAN	M
30	2620-2302	TEJAVATH MANGILAL	M
31	2620-2303	TELLAM SRIKANTH	M
32	2620-2304	TELLURI KARTHIK	M

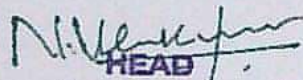

Head of the Department
HEAD


**Department of Economics
SR & BGNR Govt. Arts & Science College (A)
Khammam Telangana.**



PRINCIPAL
**S.R. & B.G.N.R. Govt. Arts &
Science College (NAACB++)
Autonomous, Khammam**

25	2619-1404	BADAVATH VALINKUMAR	BADAVATH BHAVSINGH	M	ST
26	2619-1414	CHIRUNOMIULA NAVEENKUMAR	CHIRUNOMIULA VENKATESWARLU	M	OC
27	2619-1417	ISLAVATH VIGNESH	ISLAVATH MANCHA	M	ST
28	2619-1501	BANOTH KAMAL KUMAR	BANOTH MOTHILAL	M	ST
29	2619-1503	JALADI HARITHA	JALADI PAVAN KUMAR	F	SC
30	2619-1601	ANGOTH VISHAL KUMAR	ANGOTH KRISHNA	M	ST
31	2619-1602	AREMPULA MAHESWARI	AREMPULA DARGAIAH	F	SC
32	2619-1606	SAPAVATH GANESH	SAPAVATH RAMDAS	M	ST
33	2619-1701	GODLA RAJESH	GODLA PAPAIAH	M	SC
34	2619-1712	PASUPULETI POCHESH	PASUPULETI NARASIMHA MURTHY	M	BC-A
35	2619-1801	BURRA PAVAN KALYAN	BURRA RAMAIAH	M	SC
36	2619-1808	MANGALI ASWANTH KUMAR	M DURGARAIAH	M	SC
37	2619-1901	CHATTU VENU	CHATTU KRISHNA	M	BC-A
38	2619-1902	MALLA NAGA RAJU	MALLA VENKATESWARLU	M	BC-A
40	2619-2001	KOSURI KAVYA	KOSURI SURIBABU	F	OC
41	2619-2002	NELALA VAMS!	NELALA NAGESWARA RAO	M	SC
42	2619-2101	B RAJKUMAR	B VASYA	M	ST
43	2619-2102	EESAM RAMA KRISHNA	EESAM APPAIAH	M	ST
44	2619-2121	MUKKERA CHANDRIKA	MUKKERA RAJESWARA RAO	F	BC-A
45	2619-2122	POLEBDINA SWAMY PRASAD	POLEBDINA MUSALAJAH	M	ST
46	2619-2201	YADALAPALLI SAINAVATEJA	YADALAPALLI RAVI	M	ST


HEAD
 Department of Economics
 SR & BGNR Govt. Arts & Science College (A)
 Khammam Telangana.


PRINCIPAL
 S.R. & B.G.N.R. Govt. Arts &
 Science College (NAACB+) Autonomous, Khammam.

Roll No	Name of the Student	Month															
		January 2021															
		Date	20	21	22	23	24	25	26	27	28	29	30	31	M	T	W
		Signature of Lecturer															
No. of Lecturer	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1.	Azmeera pavan	1	2	3	3	4	4	5	5	6	6	7	7	8	8	9	10
2.	Balemina sai	0	1	1	2	2	3	3	4	5	5	6	7	8	8	9	9
3.	Bandi Anitha	1	1	2	3	4	4	5	5	6	6	7	7	8	9	10	11
4.	saviti Venkatesh	0	1	2	3	4	5	6	7	8	9	10	10	11	12	13	14
5.	Shaik Akbar	1	2	3	4	5	5	6	6	7	7	8	9	9	10	10	11
6.	Tadikamalla nagalakshmi	1	1	2	2	3	4	4	5	5	6	6	7	7	8	8	9
7.	Tejavath sailaja	0	1	2	3	3	4	5	5	6	6	7	8	9	10	11	11
8.	Thati Bhavani	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
9.	Tutari Gopalkrishna	1	2	3	3	4	4	5	5	6	6	7	8	9	10	10	11
10.	Utukuri Danesh	0	1	1	2	2	3	3	4	5	5	6	6	7	7	8	8
11.	Ajmeera Suresh	1	2	3	4	5	5	6	6	7	7	8	8	9	9	10	10
12.	Punem Sangeetha	1	2	2	2	3	3	4	5	6	7	8	8	9	9	10	11
13.	Banoth Sailaja	0	1	1	2	2	3	4	5	5	6	7	8	9	10	11	12
14.	Aduri Sathish	0	1	2	3	4	5	6	7	7	8	8	9	9	10	11	12
15.	Amerabina srinasi	0	1	2	3	4	5	5	6	6	7	7	8	8	9	10	11
16.	Tilipalli vinay	0	1	1	2	3	4	5	6	7	8	9	9	10	11	11	12
17.	Kanakapudi Chandu	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
18.	Kotha vinay	1	2	2	3	3	4	5	6	7	8	9	9	10	10	11	11
19.	Chilaka Bharath	1	1	2	2	3	4	5	6	6	7	7	8	9	10	11	12
20.	Chintha vinay	0	1	1	2	2	3	3	4	5	5	6	7	8	8	9	9
21.	Darelli gopi	0	1	1	2	2	3	4	5	6	7	8	9	9	10	10	11
22.	Amarlapudi Naveenkumar	1	2	3	4	4	5	5	6	7	8	9	9	10	11	12	12
23.	Azmeera mukulikrishna	0	1	1	2	3	3	4	5	6	7	7	8	8	9	9	10
24.	Azmeera Sumanth Raja	1	1	2	3	3	4	5	6	7	7	8	9	9	10	11	12
25.	Badavath valinkumar	0	1	2	2	3	4	5	5	6	7	7	8	8	9	10	11
26.	Chirunomula Naveenkumar	0	1	2	2	3	3	4	4	5	6	7	8	9	9	10	11
27.	Islavath vignesh	1	2	2	3	3	4	5	5	6	7	8	9	10	11	12	13
28.	Banoth kamal kumar	1	1	2	2	3	4	5	6	7	8	9	10	11	12	12	13
29.	Taladi Haritha	0	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
30.	Angoth vishal kumar	1	1	2	2	3	4	4	5	5	6	7	8	8	9	9	10
31.	Arempula maheswari	0	1	1	2	3	4	5	6	6	7	8	9	9	10	11	12

17	18	19
20	21	22
23	24	25
26	27	28
29	30	31
32	33	34
35	36	37
38	39	40
41	42	43
44	45	46
47	48	49
50	51	52
53	54	55
56	57	58
59	60	61
62	63	64
65	66	67
68	69	70
71	72	73
74	75	76
77	78	79
80	81	82
83	84	85
86	87	88
89	90	91
92	93	94
95	96	97
98	99	100

Roll No.	Name of the Student	Month															
		Date															
		Signature of Lecturer															
		No. of Lecturer															
		20	21	22	23	24	25	27	28	29	30	31	3	4	5	6	
22	Sapavath Ganesh	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
33	Godla Rajesh	0	1	1	2	2	3	3	4	4	5	6	7	8	8	9	9
34	Pasupuleti Pochesh	1	1	2	2	3	3	4	4	5	6	6	7	8	8	9	10
35	Burra pavan kalyan	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
36	mangali Aswanthkumar	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
37	chattu venu	1	1	2	3	3	4	4	5	6	6	7	7	8	9	9	10
38	malla Nagaraju	1	2	3	3	4	4	5	5	6	6	7	8	9	9	10	10
39	kasuri kavya	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
40	Nelala vamsi	1	1	2	2	3	4	4	5	5	6	6	7	7	8	8	9
41	B. Rajkumar	0	1	2	3	4	5	6	7	8	9	9	10	11	12	12	13
42	Eesam Rama krishna	1	1	2	3	4	4	5	6	7	7	8	8	9	9	10	10
43	Mukkera Chandrika	1	2	3	3	4	5	5	6	6	7	8	9	9	10	10	11
44	polebolna swamy prasad	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
45	Yadlapalli Sainavateja	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8

8	10	11	12
17	18	19	20
9	10	11	12
10	11	12	13
11	12	13	14
15	16	17	18
9	10	11	12
11	12	13	14
9	10	11	12
10	11	12	13
11	12	13	14
12	13	14	15
11	12	13	14
12	13	14	15
9	10	11	12
9	10	11	12