

Government Degree College

Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Visakhapatnam -District, AP.

Est:1985 NAAC " C "Grade phone no: 08935 250013 Email.ID :Paderu,jkc@gmail.com.




DEPARTMENT OF ZOOLOGY

ADD ON/CERTIFICATE COURSE

ACADEMIC YEAR : 2021 - 2022

Name of the Add on/Certificate Course offered: **ZOO21223-APICULTURE**

SL.NO	INDEX	PG.NO
1.	Permission	02
2.	Circular	03
3.	Aims and Objectives	04
4.	Course Syllabus	05
5.	Course Outcomes	06
6.	Minutes of the Meeting	07
7.	Willing Students list	08
8.	Course Delivery	09
9.	Resource Person Details	10
10.	Student List	11
11.	Attendance	13
12.	One page report	15
13.	Assessment test	16
14.	Assessment Pattern	19
15.	Signature Sheet	20
16.	Award list	22
17.	Course completion list	24
18.	Course completion certificates	26


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PADERU-531024
Aturi Sitharama Raju Dist.



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Date : 24.01.2022

DEPARTMENT OF ZOOLOGY

Proposal for certificate course on Apiculture Academic Year - 2021- 2022

From

The Course Coordinator
Department of Zoology
Govt.Degree College,paderu.

To

The Principal
Govt.Degree College
Paderu, Visakhapatnam Dist.

Respected Sir,

Sub: Proposal for introducing Certificate Course in **Apiculture**-Department of Zoology
Request -Regarding.

We The Department of Zoology writing to propose the implementation of a Certificate Course in **Apiculture** for our B.Sc/B.Com/B.A Students at our esteemed Institution from 01.02.2022 to 26.03.2022.

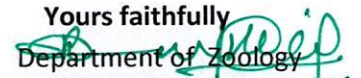
So kindly grant permission for The Department of Zoology to conduct the Certificate Course, Additionally, please allow the faculty to discuss the Syllabus and Course outcomes during the staff council meeting.


Thanking you sir for considering this Proposal.

Name of the Certificate Course : Apiculture

Course Coordinator : Mr.P.Ramesh Kumar

Yours faithfully


Department of Zoology
Mr. P. Ramesh Kumar
Course Coordinator


Principal
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Date : 28.01.2022

DEPARTMENT OF ZOOLOGY CERTIFICATE COURSE ON APICULTURE COURSE SYLLABUS

Name of the Course : APICULTURE

Course Code : ZOO21223-APICULTURE

Course Coordinator : Mr.P.Ramesh Kumar

Academic Year : 2021-2022

Total work load : 44 Hours

Unit I : BIOLOGY OF BEES

1. History, Classification and Biology of Honeybees.
2. Social Organization of Honey bees.

Unit II : REARING OF HONEY BEES

3. Artificial Bee Rearing (Apiary), Bee hives- Newton and Langstroth, Bee Pasturage, Selection of Bee Species for apiculture,
4. Bee keeping equipment, Methods of extraction of honey (Indigenous and Modern) and procedures used in keeping of artificial bee hives.


Unit III : DISEASES AND ENEMIES


5. Bee diseases and enemies.
6. Control and preventive measures.

Unit IV : ECONOMY OF BEES AND ENTREPRENEURSHIP

7. Products of Apiculture industry and its uses (Honey, Bee wax, Propolis, Pollen etc.).
8. Bee keeping industry- Recent efforts, Modern methods in employing artificial believes for Cross pollination in horticulture gardens.


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Date : 28.01.2022

DEPARTMENT OF ZOOLOGY

Name of the Course : APICULTURE

Course Code : ZOO21223-APICULTURE

Course Coordinator : Mr.P.Ramesh Kumar

Academic Year : 2021-2022

Total work load : 44 Hours

LEARNING OUTCOMES

- 1.Ability to know and explain the life history and social life of honey bee species.
- 2.Student have the capability to maintain Apiary.
3. Ability to correctly describe and act on bee production, cultivation and harvesting practices.
4. Appreciate the economic importance of products and byproducts of apiculture.
- 5.They should know how do they will get the loan from bank.
- 6.To detect and take precautionary measures against the different bee diseases and predators.


REFERENCE BOOKS

- 1.An Introduction to Apiculture –Abdul Quium Osmami,Ashok Publications,Panbazar,Guwahati-1.
2. Apiculture - Prost, P. J. (1962), Oxford and IBH, New Delhi.
3. Apiculture - Bisht D. S., ICAR Publications.
- 4.Dr.B.R.Ambedkar Open university-Karshak Print Pvt.Ltd,Hyderabad.
5. Bee Keeping in India - Indian Council of Agricultural Research, New Delhi - 4.
- 6.The Honey Bee –C.Gordan, Hewitt,Legare street press,Canada.


Course Coordinator


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Date :29.01.2022

DEPARTMENT OF ZOOLOGY

MINUTES OF MEETING

The following are the minutes of the meeting is held on 29.01.2022 at 11.00 am for starting a certificate course in **Apiculture** for B.Sc, B.COM ,B.A students for the academic year **2021-2022**.

The following minutes have been discussed and resolved unanimously.

1. It is proposed to star a certificate course in 'Apiculture' for the students of B.Sc, B.COM, B.A during the academic year 2021-2022.
2. It is proposed to endorse Sri P.Ramesh Kumar as course coordinator.
3. It is suggested to the coordinator to enrol maximum number of students for the certificate course.
4. It is also discussed to useVirtual class room and other equipment to teaching an easy way.
5. It is also discussed how we can motivate the students towards the course.

Members of the committee during minutes

- 1.
- 2.
- 3.
4. K. D.
5. M. A.

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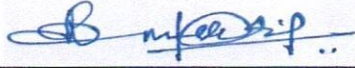
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Date : 01.02.2022

DEPARTMENT OF ZOOLOGY

RESOURCE PERSON DETAILS

Title of the Programme	APICULTURE
Course Code	ZOO21223-APICULTURE
Duration and Timing of the Programme	3MONTHS
Name of the Resource Person	Mr.P.RAMESH KUMAR
Photo of the Resource person	 
Email address	rameshpittala1319@gmail.com
Contact number	9966562790
Designation	LECTURER IN ZOOLOGY
Educational Qualifications	M.Sc.,B.Ed.,APSET.,
Experience	10 YEARS

V. G. P.

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Date : 30.03.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE ON APICULTURE

TEST ANALYSIS REPORT

Name of the Course : APICULTURE

Course Code : ZOO21223-APICULTURE

Course Coordinator : Mr.P.Ramesh Kumar

Academic Year : 2021-2022

Total work load : 44 Hours


I hereby affirm that the entire course content in the certificate course "Apiculture" listed in the certificate course syllabus have been performed by the students as the part of the prescribed co-curricular activities through Add on Course by NAAC and NBA.

I confirmed that the certificate course title as "Apiculture" was done by me in the beginning of the semester and course delivery with attendance of the students were recorded.

I confirmed that all the students for this certificate course were actively attended and performed well through out the duration and eligible students received the participation certificates.


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Date : 30.03.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE ON APICULTURE

CERTIFICATE PROGRAM ASSESSMENT TEST

COURSE END EXAMINATION

Name of the Course : APICULTURE	Course Code : ZOO21223-APICULTURE
Course Coordinator : Mr.P.Ramesh Kumar	Academic Year : 2021-2022
Total work load : 40 Hours	System of Assessment:Internal
<u>Total marks : 50</u>	<u>Duration : 1 Hour 30 Minutes</u>

I.Very Short answer type questions 10 X 1 = 10 M

- 1.Apiculture
- 2.Apiary
- 3.Language of bees
- 4.Cape bees
- 5.Stingless bees
- 6.Queen bee
- 7.Parthinogenesis
- 8.Swarming
- 9.Trophallaxis
- 10.Bee wax

II. Long Answer type questions **4 X 5 = 20 M**

11. Write about honeybee and hive accessory equipment ? or

Write about honey bee species ?

12. Write about bee products ? or

Detail about protozoan diseases caused by Nosema ?

13. Write about bee colony ? or

Write about alternative methods of harvesting ?

14. Write about sac brood disease ? or

Write a note on prevention and control honey bee pest and parasites ?

III. One word answers **20 X 1 = 20 M**

A. Fill in the blanks **5 X 1 = 5 M**

15. Example for Rock bee -----.

16. Name the stingless honeybee are -----.

17. The larvae of honey bee -----.

18. no. of setoff chromosomes being in drone -----.

19. Expand BIS -----.

B. Matching **5 X 1 = 5 M**

Mites

Host

20. Varroa destructor () a. A. florea

21. Euvarroa sinhai () b. A. cerania

22. Tropilaelaps sps. () c. A. Millifera

23. Acarapsi woodi () d. A. dorsata

24. Neocyphaelaps sps. () e. A. Sps.

C. Choose the following

5 X 1 = 5 M

25. Cape bee ()

a. *A. mellifera syriaca* b. *A. mellifera capensis* c. *A. mellifera carnica* d. *A. mellifera lamellicornis*

26. Number of queen bees present in the colony ()

a. 2 b. 4 c. 1 d. 3

27. Types of cells in honey comb ()

a. 4 b. 5 c. 8 d. 1

28. Moisture in honey hive causes ()

a. Fermentation b. Fragmentation c. Condensation d. Decoloration

29. The number of moults occur in honey bee ()

a. 2 b. 4 c. 8 d. 6

D. True or False

5 X 1 = 5 M

30. Temperature of wax is 45 °C to 48 °C.

31. A queen gate is made up of with Iron.

32. If food source is nearby bees perform wag – tail dance.

33. Honey production takes place in super chamber.

34. Nosema disease is caused by bacteria.


Course Coordinator


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Date :30.03.2022

DEPARTMENT OF ZOOLOGY

ASSESSMENT PATTERN

COURSE END EXAMINATION

Name of the Course : APICULTURE	Course Code : ZOO21223-APICULTURE
Course Coordinator : Mr.P.Ramesh Kumar	Academic Year : 2021-2022
Total work load : 40 Hours	System of Assessment:Internal
<u>Total marks : 50</u>	<u>Duration : 1 Hour 30 Minutes</u>

The assessment pattern for the certificate course is on Apiculture for the academic year 2021-2022 is based on the norms laid for the certificate course.


Assessment shall hence forth be done on written basis, based on different type of questions, as per the syllabus question paper and blue print set for this purpose.

Approved:

1. Very short answers type questions : write at least two key points 10 X 01 = 10 Marks
2. Long answer type : write at least ten key points 02 X 05 = 10 Marks
3. Fill in the blanks 05 X 01 = 05 Marks
4. Matching 05 X 01 = 05 Marks
5. Choose the following 05 X 01 = 05 Marks
6. True or False 05 X 01 = 05 Marks


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Date: 25.01.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE IN APICULTURE

Sub: Introduction of Certificate Course in Apiculture.

Dear Students,

Department of Zoology is pleased to announce the implementation of a new Certificate Course on **Apiculture** for the Academic year 2021-2022 to B.Sc /B.Com/B.A students.

The Certificate Course is a short term Certificate course on Sericulture, aimed at equipping individuals with valuable skills and knowledge in the field of Silk production. The Certificate Course which is designed and offered by our department for the benefit of our students. Course will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

We encourage all interested individuals to register their names with the Course Coordinator and to take advantage of this learning opportunity.

Thanking you for your attention and cooperation.

Name of the Certificate Course	: Sericulture
Course Coordinator	: Mr.P.Leela Prasad
Eligibility of the course	: 10+2
Fees structure	: Unpaid course
Intake capacity	: Total numbers of seats 60
Duration of the course	: 44 Days/1 Hour Per day
Commencement of Date and time	: 01.07.2019 (9.00 am to 5.00 pm)

Course Coordinator

IQAC Coordinator

Principal
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Date : 27.01.2022

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE ON APICULTURE

Name of the Course: Apiculture

Course Code: ZOO21223-Apiculture

Course Coordinator: Mr.P.Ramesh Kumar

Academic Year: 2021-2022

Total work load:44 days/1 Hour per day

INTRODUCTION:

Zoology is aimed at priming the students for their future careers and study in the fields of biological sciences. The students are prepared for pursuing their post-graduate studies. They would also be able to take up entrepreneurship related to biological sciences. Additionally, the students could choose to join public or private sectors like fishery, forestry, wildlife conservation, agricultural research, health services, environmental management and restoration.

The students to become reasonably self-sufficient thereby increase their employability. Acquisition of these skills by students will open better opportunities for them in the fields of higher studies and research in addition to increasing their employability.

AIMS AND OBJECTIVES

1. To learn about life history and social structure of honey bee species.
2. To study bee rearing and farming methods and the equipment involved.
3. To learn about apiculture benefits and different byproducts & their economic scope.
4. To study the different bee diseases and predators and their control measures.
5. To learn how to get the loan from banks.



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Date: 01.02.2022

DEPARTMENT OF ZOOLOGY CERTIFICATE COURSE ON APICULTURE

COURSE DELIVERY

Name of the Course: APICULTURE

Course Code: ZOO21223-APICULTURE

Course Coordinator: Mr.P.Ramesh Kumar

Academic Year: 2021-2022

Total work load: 44 days/1 Hour per day

SL.NO	TOPIC TO BE COVERED	HOURS	DATE OF DELIVERY
1	History, Classification and Biology of Honeybees.	06 (4+2)	01.02.2022
2	Social Organization of Honey bees.	06 (4+2)	14.02.2022
3	Artificial Bee Rearing (Apiary)	06 (4+2)	21.02.2022
4	Bee keeping equipment	06 (4+2)	03.03.2022
5	Bee diseases and enemies, Control and preventive measure	06 (4+2)	07.03.2022
6	Products of Apiculture industry and its uses	06 (4+2)	14.03.2022
7	Bee keeping industry	06 (4+2)	21.12.2022

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Date: 30.01.2022

DEPARTMENT OF ZOOLOGY CERTIFICATE COURSE ON APICULTURE

WILLING STUDENTS LIST

Name of the Course: APICULTURE Course Code: ZOO21223-APICULTURE

Course Coordinator: Mr.P.Ramesh Kumar Academic Year: 2021-2022

SL.NO	REGD.NO	STUDENT NAME	COURSE
01	720125405114	A.UMA MAHESWARI	BSc BZH
02	720125405004	B.NAGA MALLESH	B.Sc MPC
03	721125405050	B.BALA RAJU	B.Sc MPCs
04	720125405077	B.ASHOK KUMAR	B.Sc CBZ
05	720125405082	G.CHANDRA SEKHAR NAIDU	B.Sc CBZ
06	720125405120	G.RAM MURTHY	B.Sc BZH
07	720125405119	G.NEELA VENI	B.Sc BZH
08	720125405011	G.KALYAN	B.Sc MPC
09	720125405196	G.UDAY KIRAN	B.Sc MPC
10	721125405046	J.HARASHA VARDAN HEMANTH KUMAR	B.Sc MPCs
11	720125405058	J.SUBBA RAO	B.Sc MPC
12	720125405083	J.RASI	B.Sc CBZ
13	720125405096	K.SRUJANA	B.Sc CBZ
14	720125405088	K.DAVID RAJU	B.Sc BZH
15	720125405126	K.NAYOMI	B.Sc BZH
16	721125405100	K.SUDHEER KUMAR	B.Sc CBZ
17	720125405024	K. DHANA LAKSHMI	B.Sc MPC
18	721125405012	K.SAI MADHURI	B.Sc MPC
19	721125405065	K.KALAVATHI	B.Sc MPCs
20	721125405025	K.GANI KIRAN	B.Sc MPC
21	720125405125	K.VENKATA RAO	B.Sc BZH
22	720125405092	M.MOUNIKA	B.Sc BZH
23	721125405106	M.ANITHA	B.Sc CBZ
24	721125405031	M.ASHOK KUMAR	B.Sc MPC
25	721125405206	N.AJAY	B.Sc MPW
26	720125405163	O.RADHA KRISHANA	B.Sc BZH
27	720125405095	P.MATSYA RAJU	B.Sc CBZ
28	720125405139	P.LOVA THALI	B.Sc BZH

29	721125405119	P.KALAVATHI	B.Sc CBZ
30	721125405169	P.UDAYA BHANU	B.Sc BZH
31	720125405061	P.BHARAGAV CHANDHU	B.Sc MPCs
32	721125405079	P.DILEEP KUMAR	B.Sc MPCs
33	720125405069	P.PRAMEELA	B.Sc MPCs
34	720125405102	S.JAGAN	B.Sc CBZ
35	720125405125	S.SAI RAM	B.Sc CBZ
36	721125405176	S.KASI	B.Sc BZH
37	720125405144	S.RAJU	B.Sc BZH
38	720125405145	T.SURYA VAMSI	B.Sc BZH
39	720125405108	U.BANGARU BABU	B.Sc CBZ
40	721125405131	V.NAVEEN	B.Sc CBZ
41	719125405074	A. DHANA LAXMI	B.Sc CBZ
42	719125405107	A.MOHAN BABU	B.Sc BZH
43	719125405081	G.LAILA DEVI	B.Sc CBZ
44	719125405083	K.DIVYA BHARATHI	B.Sc CBZ
45	719125405085	K.CHANDRA KALA	B.Sc CBZ
46	719125405114	K.VIJAYA LALITHA	B.Sc BZH
47	719125405116	K.ESWARAMMA	B.Sc BZH
48	719125405121	K.DIVYA TEJA	B.Sc BZH
49	719125405123	K.VAMSI KRISHNA	B.Sc CBZ
50	719125405088	M.VENKATA RAMANA	B.Sc CBZ
51	719125405090	M.RAMU	B.Sc CBZ
52	719125405092	M.SESHU BABU	B.Sc CBZ
53	719125405094	P.AMARENDRA	B.Sc CBZ
54	719125405095	P.PENTANNA	B.Sc CBZ
55	719125405132	P.JOY SNEHITH	B.Sc BZH
56	719125405135	P.RAMYA SRI	B.Sc BZH
57	719125405136	P.SUJATHA	B.Sc BZH
58	719125405138	S.MALLIKA	B.Sc BZH
59	719125405101	S.KAMESWARI	B.Sc CBZ
60	719125405142	S.SRAVANI	B.Sc BZH

Course Coordinator

IQAC Coordinator

V. M. Principal
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Date: 31.01.2022

DEPARTMENT OF ZOOLOGY CERTIFICATE COURSE ON APICULTURE STUDENTS LIST

Name of the Course: APICULTURE Course Code: ZOO21223-APICULTURE

Course Coordinator: Mr.P.Ramesh Kumar Academic Year: 2021-2022

Total work load: 44 days/1 Hour per day

SL.NO	REGD.NO	STUDENT NAME	COURSE
01	720125405114	A.UMA MAHESWARI	BSc BZH
02	720125405004	B.NAGA MALLESH	B.Sc MPC
03	721125405050	B.BALA RAJU	B.Sc MPCs
04	720125405077	B.ASHOK KUMAR	B.Sc CBZ
05	720125405082	G.CHANDRA SEKHAR NAIDU	B.Sc CBZ
06	720125405120	G.RAM MURTHY	B.Sc BZH
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15	720125405126	K.NAYOMI	B.Sc BZH
16	721125405100	K.SUDHEER KUMAR	B.Sc CBZ
17	720125405024	K. DHANA LAKSHMI	B.Sc MPC
18	721125405012	K.SAI MADHURI	B.Sc MPC
19	721125405065	K.KALAVATHI	B.Sc MPCs
20	721125405025	K.GANI KIRAN	B.Sc MPC
21	720125405125	K.VENKATA RAO	B.Sc BZH
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28	720125405139	P.LOVA THALI	B.Sc BZH
29	721125405119	P.KALAVATHI	B.Sc CBZ
30	721125405169	P.UDAYA BHANU	B.Sc BZH
31	720125405061	P.BHARAGAV CHANDHU	B.Sc MPCS
32	721125405079	P.DILEEP KUMAR	B.Sc MPCS
33	720125405069	P.PRAMEELA	B.Sc MPCS
34	720125405102	S.JAGAN	B.Sc CBZ
35	720125405125	S.SAI RAM	B.Sc CBZ
36	721125405176	S.KASI	B.Sc BZH
37	720125405144	S.RAJU	B.Sc BZH
38	720125405145	T.SURYA VAMSI	B.Sc BZH
39	720125405108	U.BANGARU BABU	B.Sc CBZ
40	721125405131	V.NAVEEN	B.Sc CBZ
41	719125405074	A. DHANA LAXMI	B.Sc CBZ
42	719125405107	A.MOHAN BABU	B.Sc BZH
43	719125405081	G.LAILA DEVI	B.Sc CBZ
44	719125405083	K.DIVYA BHARATHI	B.Sc CBZ
45	719125405085	K.CHANDRA KALA	B.Sc CBZ
46	719125405114	K.VIJAYA LALITHA	B.Sc BZH
47	719125405116	K.ESWARAMMA	B.Sc BZH
48	719125405121	K.DIVYA TEJA	B.Sc BZH
49	719125405123	K.VAMSI KRISHNA	B.Sc CBZ
50	719125405088	M.VENKATA RAMANA	B.Sc CBZ
51	719125405090	M.RAMU	B.Sc CBZ
52	719125405092	M.SESHU BABU	B.Sc CBZ
53	719125405094	P.AMARENDRA	B.Sc CBZ
54	719125405095	P.PENTANNA	B.Sc CBZ
55	719125405132	P.JOY SNEHITH	B.Sc BZH
56	719125405135	P.RAMYA SRI	B.Sc BZH
57	719125405136	P.SUJATHA	B.Sc BZH
58	719125405138	S.MALLIKA	B.Sc BZH
59	719125405101	S.KAMESWARI	B.Sc CBZ
60	719125405142	S.SRAVANI	B.Sc BZH

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Date: 01.02.2022

DEPARTMENT OF ZOOLOGY

SIGNATURE SHEET

COURSE END EXAMINATION

Name of the Course: Apiculture Course Code: ZOO21223-Apiculture

Course Coordinator: Mr.P.Ramesh Kumar Academic Year: 2021-2022

Total work load: 40 Hours System of Assessment: Internal

Total marks: 50 Duration: 1 Hour 30 Minutes

SL.NO	REGD.NO	STUDENT NAME	COURSE	STU.SIGNATURE
01	720125405114	A.UMA MAHESWARI	BSc BZH	
02	720125405004	B.NAGA MALLESH	B.Sc MPC	
03	721125405050	B.BALA RAJU	B.Sc MPCs	
04	720125405077	B.ASHOK KUMAR	B.Sc CBZ	
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08	720125405011	G.KALYAN	B.Sc MPC	
09	720125405196	G.UDAY KIRAN	B.Sc MPC	
10	721125405046	J.HARASHA VARDAN HEMANTH KUMAR	B.Sc MPCs	
11	720125405058	J.SUBBA RAO	B.Sc MPC	
12	720125405083	J.RASI	B.Sc CBZ	
13	720125405096	K.SRUJANA	B.Sc CBZ	
14	720125405088	K.DAVID RAJU	B.Sc BZH	
15	720125405126	K.NAYOMI	B.Sc BZH	
16	721125405100	K.SUDHEER KUMAR	B.Sc CBZ	
17	720125405024	K. DHANA LAKSHMI	B.Sc MPC	
18	721125405012	K.SAI MADHURI	B.Sc MPC	
19	721125405065	K.KALAVATHI	B.Sc MPCs	
20	721125405025	K.GANI KIRAN	B.Sc MPC	
21	720125405125	K.VENKATA RAO	B.Sc BZH	
22	720125405092	M.MOUNIKA	B.Sc BZH	
23	721125405106	M.ANITHA	B.Sc CBZ	
24	721125405031	M.ASHOK KUMAR	B.Sc MPC	
25	721125405206	N.AJAY	B.Sc MPW	

26	720125405163	O.RADHA KRISHANA	B.Sc BZH
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Date: 31.03.2022

DEPARTMENT OF ZOOLOGY

AWARD LIST OF COURSE END EXAMINATION

Name of the Course: Apiculture Course Code: ZOO21223-Apiculture

Course Coordinator: Mr.P.Ramesh Kumar Academic Year: 2021-2022

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Date: 31.03.2022

DEPARTMENT OF ZOOLOGY

CANDIDATES SUCCESSFULLY COMPLETED COURSE

Name of the Course: Apiculture Course Code: ZOO21223-Apiculture

Course Coordinator: Mr.P.Ramesh Kumar Academic Year: 2021-2022

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CERTIFICATE OF COMPLETION

This is to certify that Sri/Kmr.A.MOHAN BABU, Regd. No. 719125405074 of B.Sc, CBZ of Govt. Degree College, Paderu, has completed Certificate Course in APICULTURE organized by Department of Zoology for the Academic Year 2021-2022.He/she passed the Course Successfully in A+ Grade. The overall performance of an individual is found to be Satisfactory.

SIGNATURE OF THE COORDINATOR



SIGNATURE OF THE PRINCIPAL

V. G. M. Degree College
PADERU-531024
Principal

