

ACADEMIC PROFILE

General information:

Name : Dr. Y.SHANTI PRABHA
Designation : Lecturer.
Department : ZOOLOGY.
Institution : Dr.V.S.Krishna Government Degree and PG college (Autonomous)
Area of Specialization : MSc. Zoology with fisheries Science (**FIRST RANK, GOLD MEDAL**).

Education Details:

Level	School/College/University	Subjects	Division/Grade/Merit
10th Class (ICSE)	MVP Public School, Visakhapatnam	Telugu, English, Maths, History Civics, Geography, Science(Physics, chemistry, Biology), Computer Science.	FIRST CLASS
Intermediate BIE, AP	A.S.RajaMahila Junior College, Visakhapatnam.	BiPC	FIRST CLASS, 2 nd Ranker
Bachelor of Science	Mrs AVN College, Andhra University	BSc	FIRST CLASS with distinction and ACADEMIC EXCELLENCE AWARD.
Master of Science	Andhra University	Zoology	FIRST CLASS with FIRST RANK & GOLD MEDAL.
Ph.D.,	Andhra University	Zoology	AWARDED

Academic accolades:

1. **Nyapati Lakshmi Srinivas Iyyengar Prize for First in Chemistry BSc Final year 1998.**
2. **D. Hymavathi Devi prize for First in Chemistry BSc Final year 1998.**
3. **SmtNyapatiRanganayakamma Memorial prize for First in Chemistry BSc Final year 1998.**
4. **Mavallapalli Sanyasi Rao Memorial prize for First in Chemistry BSc Final year 1998.**
5. **Nyapati Lakshmi Srinivas Iyyengar Prize for First in Chemistry BSc Final year 1998**
6. **Nyapati Lakshmi Srinivas Iyyengar Prize for First in Chemistry BSc Second year 1997.**
7. **Sri AVN Jagga Rao Memorial Prizefor the Academic Excellence 1997 – 1998.**
8. **D.V. Reddy Panthulu Prize for First in Zoology BSc Final year 1998.**
9. **First Rank with distinction in MSc Zoology 2000.**
10. **Smt. MaddipatiVenkataratnamma Prize in MSc.`**
11. **Prof. P.N.GanapathiShastiabdipoorthi Prize in MSc.**
12. **JayanthiVenkubai Memorial Medal in MSc (Gold Medal)**

Research details:

Research Stage	Title of work/Thesis	University where the work was carried out.
Ph.D.	STUDIES ON CHANGES IN CHEMICALQUALITY INDICES AND BACTERIA OF PATHOGENIC SIGNIFICANCE DURING FROZEN STORAGE OF TEN COMMERCIALY IMPORTANT CRUSTACEANS AND FINFISHES OF VISAKHAPATNAM.	ANDHRA UNIVERSITY

Seminars, Conferences, Symposia Workshops etc. attended:

Sl. No	Name of the Seminar/ Conference/ Symposia Workshop, etc.	Name of the Sponsoring Agency	Place and Date
01	Quality consciousness : A paradigm shift in Higher Learning Govt institutions in Andhra Pradesh.	NAAC	Dr VSK GDC (A) , Visakhapatnam, 22 nd & 23 rd March 2013.

02	Taxonomy for Managing Biodiversity : Present Scenario and future challenges.	UGC	Dr VSK GDC Autonomous, Visakhapatnam, 25 th & 26 th Oct'13
03	GPDAM - 2013	UGC	Dr VSK GDC Autonomous, Visakhapatnam, 20 th & 21 st DEC'2013
04	Higher Education – The Role of Teacher	Mrs AVN College	Mrs AVN College, Visakhapatnam, 10 th OCT – 2014
05	RDNC - 2014	UGC	Dr VSK GDC Autonomous, Visakhapatnam, 12 th Dec- 2014
06	Digital alternatives to Animal Dissections & Experimentation.	UGC	Dr VSK GDC Autonomous, Visakhapatnam, 9 th Jan 2015
07	Obesity – a Life Style Challenge	UGC	Dr VSK GDC Autonomous, Visakhapatnam, 3 rd & 4 th Feb 2015
08	The Impact of The Socio-Economic and Political Development on Environment & Biodiversity	UGC	Dr VSK GDC Autonomous, Visakhapatnam, 28 th Feb 2015.
09	Quality Enhancement in Govt. Degree Colleges-Role of Teachers	UGC	Dr BR Ambedkar Assembly Hall, AU Visakhapatnam, 10 th Oct 2015
10	Choice Based Credit System – Credit Framework for Skill Development in Under Graduate Courses.	IQAC & DRC	Dr VSK GDC Autonomous, Visakhapatnam, 16 th Oct 2015
11	Gender Perspectives – awareness on Socio-Economic and Health aspects of Women.	UGC	Dr VSK GDC Autonomous, Visakhapatnam, 7 th JAN 2016
12	Biodiversity &Phyto-Luxuriance as a Way & Means for Eternal Green Globe.	UGC	VisakhaGovt Degree & PG College for Women, Visakhapatnam, 29 th & 30 th Jan 2016.
13	International conference on Recent advances in aquaculture(RAA – 2016)	Andhra University	Dept. of Marine Living Resources, Visakhapatnam, 16 th & 17 th Dec 2016

14	RACC - 2017	UGC	Dr VSK GDC Autonomous, Visakhapatnam, 31 st Jan & 1 st Feb 2017
15	Nutritional values of Ethnic Foods.	Dept of Microbiology	Dr VSK GDC Autonomous, Visakhapatnam, 17 th feb 2017

Webinars , FDPs and TOTs attended:

1	Strategic preparedness & Socio Economic impact of COVID-19 Outbreak	International webinar	Government College(A), Rajamundry	15th May 2020
2	Research methodology	National	SVD GDC(W), Nidadavole, West Godavari, Andhra Pradesh	21st May 2020
3	Covid 19 Pandemic from chemistry's Perspectives	National	Mahatma Phule, Arts and Science & Commerce College, Panvel, Raigad.	22nd May 2020
4	Impact of Covid 19 on Indian Economy:Some challenging issues	National	Dr. VSK GDC (A), Visakhapatnam	23rd May
5	Awareness and Readiness of Covid 19	International webinar	Ch.S.D.St.Theresa's College for women(A), Eluru	26th May 2020
6	Challenges and opportunities in higher education in COVID 19 Scenario: The way forward	International FDP Webinar	St. Joseph college for women (A)	27th to 28th May 2020
7	Post - Lockdown academic challenges in Higher education institutions	National	Government College for Women (A), Guntur	28th May
8	DIABETES–PREVENTION AND MANAGEMENT	National	St. Joseph college for women (A) and IAPEN	29th May
9	Evolution from offline to online	5 day online FDP	Satish Pradhan Dhyanasadhana college, Thane and University of Mumbai	30th May to 3rd June 2020
10	Nutrition - Immune booster to Fight against viral infections	National	Ch.S.D.St.Theresa's College for women(A), Eluru	2nd June 2020
11	Creative writing of research proposals and articles	National	AdikaviNannayya University, Rajamahendravaram	4th June 2020
12	Analytical and Diagnostic Tools in Chemical and Life Sciences	National Webinar cum FDP	Andhra University and AP Akademi of Sciences.	5th & 6th June 2020
13	Soft Skills	National	GDC, Ichapuram, SKLM.	7th June, 2020
14	Cognitive decline in Alzheimer's disease and Parkinson's disease	National	St. Joseph college for women (A), Visakhapatnam	10th June 2020

15	Digital Skills for Smart Teaching	One week online FDP	Annamalai University, Tamil Nadu	12th - 18th June 2020
16	Nutraceuticals and Medicinal herbs for Health and Immunity	National	St. Joseph college for women (A), Visakhapatnam	20th June 2020
17	Digital Skills for Smart Teaching	Two day National FDP	Raja Doraisingam Government Arts college, Sivaganga, TamilNadu	22nd and 23rd June 2020
18	Biofacet - Plant health management	National	"ChikitsakSamuha's	29th June 2020
19	Genomics of SARS CORONA VIRUS -02	National	Sir Sitaram& Lady ShantabaiPatkar College of Arts & Science	11th July 2020
20	Evidence based Teaching and Learning strategies in higher education	National Workshop	and V. P. Varde College of Commerce & Economics	13th July to 15th July
21	Principles and Applications in Immunology	National Webinar	"	18th July 2020
22	Science in Current Scenario	National Webinar	Andhra Loyola college in collaboration with Maris Stella College ,Vijyawada	21st and 22nd July 2020
23	New Horizons of Aquatic Systems-Towards Sustainable Development	National Webinar	CREATES, IISER Bhopal under PMMMNMTT scheme of MHRD	24th July, 2020
24	Plants in Space	International webinar	Andhra Loyola College , Vijayawada	25th July 2020
25	Online Tools for building Communication Skills	National Webinar	St. Francis de Sales College, Bangalore	28th July 2020
26	Excellence in Higher Education - Emerging trends and Roads Ahead	2 Day National Webinar	AdikaviNannayya University, Rajamundry	27th and 28th July
27	'Special Lecture on Increasing Role of Women Entrepreneurship in Higher Educational Institutions and Impending Factors - A National and Global Perspective'	National Webinar	Andhra Loyola College , Vijayawada	31st July 2020
28	Animal Ethics and Human Genomics	International Webinar	Government College for Women (A), Srikalahasti, Chittoor	5th August 2020
29	Issue and Role of Intellectual Property Rights in Academia	National	St. Francis de Sales College, Bangalore	7th August 2020
30	Fundamentals of E - Learning	National workshop	SREE AYYAPPA COLLEGE FOR WOMEN Chunkankadai, Nagercoil, Tamil Nadu	25th August 2020
31	Nano Physics	National Webinar	GDC Araku Valley, Visakhapatnam	29th August 2020
32	COVID 19 - a Few Observations	Nationar Webinar	VisakhaGovernment Degree College for Women, Visakhapatnam	12th September 2020

33	NDLI User Awareness	National Webinar	West Bengal State University	7th September 2020
34	Biotechnology - Modern Molecular Approaches	2 Day International Webinar	GDC Razole, EG district, Andhra Pradesh	10th and 11th September 2020
35	WILDLIFE CONSERVATION IN INDIA	National Webinar	Andhra Loyola College , Vijayawada	6th November 2020
36	Parasites Health and Environment	National Seminar	NDLI , India in collaboration with Dr. VSK GDC (A), Visakhapatnam	30th December 2021
37	"SYSTEMS BIOLOGY - AN INTERDISCIPLINARY WEBINAR - Intersection of Mathematics & Biology"	National Webinar	Sri Padmavathi Mahila Viswa Vidyalayam, Tirupati	19 th January 2022
38	Popular Lecture Series	National webinar	SR&BGNR GOVERNMENT ARTS & SCIENCE COLLEGE(A), Khammam, Telangana	28th January 2022
39	Life Sciences	International Webinar	AUCST, Visakhapatnam	10th February 2022
40	The 7 assessment criteria for NAAC accreditation	Workshop	Government College for Women, Guntur.	21/02/2022 – 28/02/ 2022
41	Capacity building in Genomics and Proteomics	National seminar	GDC (Men), Srikakulam.	29/05/2022 – 31/05/2022
42	Dairy Technology	TOT	APCCE & Dr. VSK GDC (A), Visakhapatnam.	10/08/2022 – 14/08/2022
43	Poultry Farming	Five Day Residential training Programme for Teachers.	APCCE & Dr. VSK GDC (A), Visakhapatnam.	02/11/2022 – 06/11/2022
44	Internship/Apprenticeship Management and LMS	3 day ToT	APCCE & Dr. VSK GDC (A), Visakhapatnam	30 th , 31 st Jan and 01 st Feb 2023
45	English medium of Instruction, proficiency in English	6 day ToT	APCCE & Dr. VSK GDC (A), Visakhapatnam	12/06/2023 – 17/06/ 2023
46	Blended learning: Concepts and Tools.	FDP	TLC, Ramanujan College, University of Delhi under PMMMNTT	01/07/2023 to 07/07/2023

Professional Competence: Details regarding refresher courses/orientation courses attended.

Sl.no	Name of the course attended	Institution	Dates
01	Orientation course	Andhra university	24/07/2013 – 20/08/2013
02	IDRC in Life Sciences	Andhra University	07/03/2015 – 27/03/2015
03	RC in Basic Sciences	Andhra University	12/12/2016 – 01/01/2017

04	IDRC in Environmental Sciences	Andhra University	23/12/2019 – 05/01/2020
05	IDRC in Life Sciences	SVUniversity, Tirupathi	10/11/2022 – 23/11/2022
06	IDRC on Managing Online Classes & Co-creating MOOCS 23.0	TLC, Ramanujan College, University of Delhi under PMMMMNMTT	07/02/2023 – 21/02/2023
07	RC in Zoology	TLC, Ramanujan College, University of Delhi under PMMMMNMTT	10/04/2023 – 24/04/2023

Recognized as research guide, Dr. VSK GDC (A), affiliated to Andhra University, Visakhapatnam.

Three part-time scholars presently working under my guidance.

Research Publications:

1. **Shanti Prabha, Y and Manjulatha, C. 2008.** Food and Feeding habits of *Upeneus vittatus* from Visakhapatnam coast (Andhra Pradesh), of India. International Journal of Zoological research 4(1): 59-63.
2. **Shanti Prabha, Y; Manjulatha, C and Rao, L. M. 2007.** Food and Feeding habits of *Pomadasy maculatus* from Bandaruvanipeta Fishing Village of Srikakulam district, Andhra Pradesh. J.Aqua.Biology. Vol 22 (1), 2007: 143 146.
3. **Shanti Prabha, Y. 2023.** Stress as a topic of concern in Gut Health: A Review. Uttar Pradesh Journal of Zoology. Vol.44, Issue 12, Page 1-6, 2023.
4. **Diamond Rajakumar Tenali, Nyamkham P. Phom , Shanti Prabha Yamala , Suresh Babu Gudipudi , Shbuham Kashyap and Rakesh Nirmalkar . 2023.** Evaluation of Length-weight Relationship and condition Factor among the cohorts of *Labeo calbasu* in Pachipenta reservoir, Andhra Pradesh. J. Exp. Zool. India Vol. 26, No. 2, pp. 2329-2332, 2023.
5. **Shanti Prabha, Y. 2023.** Changes in some quality indices in *Thunnus albacares*, *Sardinella longiceps* and *Rastrelliger kanagurta* from Visakhapatnam harbour stored at -20°C. CIBTech Journal of Zoology ISSN: 2319–3883 Online, International Journal.
6. **Shanti Prabha, Y and Manjulatha, C. 2023.** Lipid oxidation changes in terms of PV and TBA in whole *Pampus argenteus* from Visakhapatnam stored at -20°C. Eur. Chem. Bull. 2023, 12(S2), 2278-2285.

7. **Ratna Bharathi, V and Shanti Prabha, Y.** 2023. Screening of in-vitro Antidiabetic Potentials from the Protein Extracts of *Stomopneustes variolaris*. Uttar Pradesh Journal of Zoology. Vol.44, Issue 18, Page 18-29, 2023.

Student Projects Guided:

- 1) **25 Final BSc cluster projects**
- 2) **10 Community service projects**
- 3) **9 Short term Internship Projects at the end of Semester IV for UG.**
- 4) **9 Long Term Internship Projects at the end of Semester V for UG**

Details of smart teaching FDPs attended:

1	Challenges and opportunities in higher education in COVID 19 Scenario: The way forward	International FDP Webinar	St. Joseph college for women (A)	27th to 28th May 2020
2	Evolution from offline to online	5 day online FDP	Satish Pradhan Dhyanasadhana college, Thane and University of Mumbai	30th May to 3rd June 2020
3	Analytical and Diagnostic Tools in Chemical and Life Sciences	National Webinar cum FDP	Andhra Univerity and AP Akademi of Sciences.	5th & 6th June 2020
4	Digital Skills for Smart Teaching	One week online FDP	Annamalai University, Tamil Nadu	12th - 18th June 2020
5	Digital Skills for Smart Teaching	Two day National FDP	Raja Doraisingam Government Arts college, Sivaganga, TamilNadu	22nd and 23rd June 2020
6	New Knowledge in animal Sciences – Emerging Technologies in Molecular Biology	5 Day FDP in Zoology	Commissionerate of Collegiate Education, Andhra Pradesh	6th July to 10th July 2020
7	Evidence based Teaching and Learning strategies in higher education	National Workshop	CREATES, IISER Bhopal under PMMMNMTT scheme of MHRD	13th July to 15th July

Teaching Experience

Courses Taught	Name of the University/ College /Institution	Duration
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U.G. (B.Sc. C.B.Z)	Dr. VSK GDC(Autonomous) Visakhapatnam, A.U, GDC (W) Marringalem, GDC Men Srikakulam (2011 – 2023)	More than 10 years
B.Sc. BVOC (Aquaculture)	Dr. VSK GDC (Autonomous), Visakhapatnam.	3 years
1.Environmental studies 2. Foundation courses 3.Dairy Technology 4. Poultry Farming	Dr. VSK GDC(Autonomous) Visakhapatnam, A.U. GDC (W) Marringalem, GDC Men Srikakulam (2011 – 2021)	More than 10 years Ever since the introduction of the course
PG Zoology	Dr. VSK GDC (Autonomous), Visakhapatnam. (2022 – 23)	3 Semesters

Contributions in Teaching:

a) **Design of Curriculum**

- As a member of Dept of Zoology, Dr VSK GDC (A), designed the curriculum for under graduate Zoology under CBCS Pattern.
- Also assisted in framing the general elective syllabus.
- BVOC Aquaculture syllabus framing member

b) **Teaching methods**

- Lecture method
- Project works, Seminars, Assignments , Group Discussions.
- ICT method through PPT's & you tube lessons to expand the learning dimensions.
- Through Bio-visual Charts.
- Recorded video lectures and shared through student friendly LMS platform

c) **Laboratory experiments**

- Conducted through demonstration of experiments & dissections.
- Involved Student trainers from other depts. Such as microbiology to conduct clinical science experiments.

- Through display and explanation of Spotters & Slides.
- Explained the resources in the form of animations and demo video explanations during pandemic to the maximum extent through Google meet with personal attention towards each and every student during the online class.

d) **Evaluation methods (Class test, viva voce, home assignment, university exams)**

- Continuous internal assessment through the mid sems, class tests, Assignments
- Student seminars
- Viva voce
- Study projects assigned and External evaluated.
- Practical Records verification and assessment in Google classroom during Pandemic.
- Internal exams conducted online using Google forms in GMEET during pandemic

e) **Preparation of Study material**

- Prepared in both Telugu & English Medium to enable easy assimilation of the concept taught.
- ICT enabled Diagram display for perfection of record work (collected from authenticated websites).
- Prepared and translated study material for theelectives and clusters.

f) **Remedial Teaching / Student Counseling (academic)**

- Weak learners & students who need special attention are identified & Proper guidance given to overcome their learning difficulties.
- Study hours conducted.
- Parents were also counseled especially those of girl students to help complete their minimum educational requirements (a step towards empowerment).

g) **Other**

- Detailed orientation of examination system, as the semester mode is different from the routine annual examination system.
- Prepared Question Banks.
- Continuous monitoring of attendance.
- Conducted Field trips to enrich their knowledge beyond the class room.
- Maintained marks registers of the class concerned.
- Students were involved in participatory learning.
- Motivated students to take up ADD-ON courses to improve the employability skills.
- Encouraged students to submit articles to magazines published at college level.
- Arranged Guest Lectures to expand their horizons of learning.
- Authored First, second, final year theory lessons and Practical manuals for all the three years of Undergraduation for the School of Distance education, Andhra University in the subject of Zoology.

Extension Work / Community Service :

- Participated in World Ozone Day celebrations.
- Trained students to prepare and display the exhibits in biodiversity workshop.
- Participated as judge for an elocution contest organized and conducted by RRC on the “World AIDS Day” in 2013.
- Participated and conducted several events and lectures as member and co – convener in WEC till date.
- Participated as Judge for an elocution contest conducted by RRC on “Importance of Blood Donation” on 18/12/2013.
- Acted as Judge for poster painting competitions conducted on the eve of International Women’s Day in 2014.
- Participated and motivated students to donate blood in blood donation camp organized by NSS &NCC in 2014.
- Participated and involved students in Swachh Bharat initiatives launched by the govt till date.
- Participated in Vanam – Manam activity initiated by the Govt.
- Motivated students to participate and realize the need of social responsibility.
- Assisted NSS coordinator towards preparation of water harvesting pits.
- Participated in the conduct of various departmental cocurricular activities planned for students.

Participation in various activities:

a) College/University/Institution

1. Discharged responsibilities as member in various college level committees(Attendance& issue of bus passes, Syllabus framing, WEC, Anti ragging committee, BOS).
2. Participated and motivated student participation in the conduct of various activities of the Department like wild life week celebrations, AIDS awareness Rallies, Blood donation camps etc.
3. Guided students to participate in various seminars/poster presentations/article contribution to the magazine launched by the Dept of Computer Science.
4. Nominated as subject expert to screen the biological sciences articles contributed to Connect-ED Magazine.
5. As resource person, delivered two lectures for the JL’s at an orientation program conducted at Visakha Govt Jr. College for girls, Visakhapatnam in 2015.
6. Acted as Judge for various competitions conducted during Yuvatarangam in 2014 & 2015.
7. Chosen as judge for 28th National Children’s Science Congress – 2020 organized by APCST
8. Chosen as judge for National Children’s Science Congress – 2023 organized by APCST.

b) Co-curricular Activities

1. Organised& accompanied students to field trips every year till date.
2. Assigned and guided student study projects in ES and Discipline Specific Elective of Zoology.
3. Guided students to exhibit charts in workshops and co-curricular events.

4. Conducted student seminars.

c) Enrichment of Campus Life

(Hostels, sports, games, cultural activities)

1. Addressed the need of girl students as member of WEC.
2. Judged several painting and Rangoli competitions conducted during special occasions.
3. Encouraged students to participate in district level cricket competitions.
4. Presently, taking charge as Addon Music course coordinator. Coordinated training of students to participate in singing activities conducted at college level.

d) Students Welfare and Discipline

1. Extended financial assistance to economically poor students.
2. Guided the students towards vertical progression in the field of education by giving career counseling.
3. Weak and slow learners were continuously encouraged for the betterment.
4. Students with behavioral problems were dealt with extreme care.
5. Held parent-teacher meet.

e) Membership/Participation in Bodies/Committees on Education and National Development

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Member , BOS Dept of Zoology, Dr VSK GDC Autonomous.

Member , BOS Environmental Science, Dr VSK GDC Autonomous

Details of Seminars, Conferences, Symposia organized :

Sno.	Activity		Date
01	National workshop on Digital Alternatives to Dissections	Organising committee member	09/01/2015
02	National seminar on Impact of Socio-Economic and political Development on Environment & Biodiversity	Organising committee member	28/02/2015
03	Gender perspectives	Organising committee member	07/01/2016
04	Marine Exhibition	Committee member	31/03/2022

Chapters authored for Undergraduate AUSDE theory and practical course material:

Cell Theory, Ultra Structure of animal cell & Plasma membrane	Biology of Invertebrates and Cell Biology
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Endoplasmic Reticulum and Golgi apparatus	Biology of Invertebrates and Cell Biology
Lysosomes and Ribosomes	Biology of Invertebrates and Cell Biology
Mitochondria	Biology of Invertebrates and Cell Biology
Chromosomes	Biology of Invertebrates and Cell Biology
Observation of Slides/specimens/models Protozoans to Annelids (Total 5 chapters)	Practical Manual - Biology of Invertebrates and Cell Biology
Dissections procedure description with diagrams (Total three chapters)	Practical Manual - Biology of Invertebrates and Cell Biology
Preparation of mitosis and meiosis slides	Practical Manual - Biology of Invertebrates and Cell Biology
Qualitative identification of amino acids	Practical Manual - Biology of Invertebrates and Cell Biology
Ranatigrina - type study	Biology of Chordates, Embryology, Ecology and Zoogeography
Parental Care in Amphibia	Biology of Chordates, Embryology, Ecology and Zoogeography
Columba livia - Type study	Biology of Chordates, Embryology, Ecology and Zoogeography
Migration in birds	Biology of Chordates, Embryology, Ecology and Zoogeography
Flight adaptations in birds	Biology of Chordates, Embryology, Ecology and Zoogeography

Observation of Slides/specimens/models Amphibia, Reptilia, Aves, Mammalia(Total 4 chapters)	Practical manual - Biology of Chordates, Embryology, Ecology and Zoogeography
Dissections - Cranial nerves in scoliodon, arterial system of Scoliodon, arterial system of Calotes. (total 3 chapters)	Practical manual - Biology of Chordates, Embryology, Ecology and Zoogeography
Embryology Slides and mounting experiment (total 4 chapters)	Practical manual - Biology of Chordates, Embryology, Ecology and Zoogeography
Types and formation of nitrogenous wastes, Classification of animals basing on nitrogenous wastes	Animal Physiology, Genetics and Evolution
Structure and function of kidney, nephron and counter current mechanism	Animal Physiology, Genetics and Evolution
Types of circulation, Structure and working mechanism of mammalian heart	Animal Physiology, Genetics and Evolution
Capture fisheries and Fishery resources from freshwater habitats	Aquaculture, Fisheries, clinical science and Animal Biotechnology
Fishery resources from brackish water and marine resources	Aquaculture, Fisheries, clinical science and Animal Biotechnology
Mariculture	Aquaculture, Fisheries, clinical science and Animal Biotechnology
Site selection criteria and aquaculture systems	Aquaculture, Fisheries, clinical science and Animal Biotechnology
Induced breeding	Aquaculture, Fisheries, clinical science and Animal Biotechnology
Hatchery design and management	Aquaculture, Fisheries, clinical science and Animal Biotechnology
Nursery, rearing and growout pond management	Aquaculture, Fisheries, clinical science and Animal Biotechnology

Shrimp and prawn culture	Aquaculture, Fisheries, clinical science and Animal Biotechnology
Preservation and processing	Aquaculture, Fisheries, clinical science and Animal Biotechnology
Hypersensitivity	Aquaculture, Fisheries, clinical science and Animal Biotechnology
ABO blood group determination	Practical manual - Animal Physiology, Genetics and Evolution
Problems on blood grouping	Practical manual - Animal Physiology, Genetics and Evolution
Karyotyping of human chromosomes	Practical manual - Animal Physiology, Genetics and Evolution
Identification of genetic syndromes	Practical manual - Animal Physiology, Genetics and Evolution
Problems on Mendelian inheritance	Practical manual - Animal Physiology, Genetics and Evolution
Identification of protozoan parasites	Practical manual - Aquaculture, Fisheries, clinical science and Animal Biotechnology
Identification of Helminth parasites	Practical manual - Aquaculture, Fisheries, clinical science and Animal Biotechnology
Estimation of Haemoglobin methodology	Practical manual - Aquaculture, Fisheries, clinical science and Animal Biotechnology
Total RBC and WBC count	Practical manual - Aquaculture, Fisheries, clinical science and Animal Biotechnology
Identification of cloning vectors	Practical manual - Aquaculture, Fisheries, clinical science and Animal Biotechnology

Identification of transgenic animals

Practical manual - Aquaculture, Fisheries, clinical science
and Animal Biotechnology