

## ***CURRICULUM VITAE***

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### **Prof. Dr. Noor Khan**

Professor

Institute of Zoology

University of the Punjab, Lahore, Pakistan

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### **PERSONAL DATA**

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Marital Status                      Married (03 sons)  
Date of Birth                         12<sup>th</sup> June, 1972  
CNIC #                                 38301-1916789-9, Nationality: Pakistan  
Permanent Address                 H# 359-Block P, Street # 03, Johar Town, Lahore, Pakistan.

### **EDUCATION**

<b>University</b>	<b>Degree</b>	<b>CGPA</b>	<b>Year</b>
University of Veterinary and Animal Sciences, Lahore, Pakistan & ULaval-Quebec, Canada	PhD (Fisheries & Aquaculture)	1 <sup>st</sup>	2011
University of Agriculture, Faisalabad, Pakistan	M.Phil. (Zoology)	3.77	1997
University of Agriculture, Faisalabad, Pakistan	M. Sc. (Zoology)	3.56	1995
University of the Punjab, Lahore, Pakistan	B.Sc. (Zoology/Botany)	1 <sup>st</sup>	1992

### **INTERNATIONAL TRAINEE/ RESEARCH ASSOCIATE**

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- International Training Course, “Breeding, weaning and grow-out culture practices of Channa, Catfish (*Clarias*, *Pangasius*), Seabass and Crustacean (Shrimp and Prawn) species at AIT, Thailand from 29-07-2018 to 30-08-2018.
- International Training course, “Social Management in Fisheries Production Chain” organized by UNO-Brazilian Technical Cooperation, at Rio Grande du Sul, Brazil from 09-01-2012 to 13-01-2012.
- Research Associate in the Scottish Fish Immunology Lab. Department of Zoology, University of Aberdeen, UK (October, 2011 to September, 2014).
- Department of Sciences Animales, University of Laval, Quebec, Canada. Split Ph.D. International Research Support Initiative Programme funded by HEC (Feb. 2010 to Nov. 2010).
- Research Trainee at Station de Recherche Hydrobiologie INRA- CARRETEL, Thonon-Les-Bains, France, on “Fish population dynamics studies Funded by HEC (1<sup>st</sup> Nov. 2008 to 30<sup>th</sup> Jan, 2009).

### **RESEARCH THESIS**

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- Khan, N. 2011. Comparative growth rate and body composition of major carps (*Labeo rohita*, *Catla catla* and *Cirrhinus mrigala*) cultured under similar feeding regimes. Ph.D. Thesis. Department of Fisheries & Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan.

- Khan, N. 1997. Effect of different doses of fertilizers (Nitrophos) on the growth performance of major carps. M. Phil. Thesis. Department of Zoology and Fisheries, University of Agriculture, Faisalabad, Pakistan.
- Khan, N. 1995. Species composition of the cursorial spider guild in wheat field. M. Sc. Thesis. Department of Zoology and Fisheries, University of Agriculture, Faisalabad, Pakistan.

#### **AREA OF SPECIALIZATION**

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- Freshwater Aquaculture
- Fish Nutrition

#### **MEMBER COMMITTEES OF HEC**

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- National Curriculum Revision Committee (NCRC) for Zoology.
- Natural Sciences and Multidisciplinary (Sciences) Journals Review Committee

#### **ACHIEVEMENT/ AWARDS AND DISTINCTION**

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- International Research Support Initiative Program (IRSIP) Scholarship from HEC for University of Laval, Quebec, Canada.
- HEC Approved Supervisor
- Qualified CSS, 1999

## **POSITIONS HELD**

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31-12-2021 to date	<b>Professor:</b> Institute of Zoology, University of the Punjab, Lahore.
10-04-2020 to 30-12-2021	<b>Dean:</b> Faculty of Fisheries & Wildlife, University of Veterinary and Animal Sciences, Lahore
03-02-2015 to 10-05-2020	<b>Chairman,</b> Department of Fisheries & Aquaculture University of Veterinary and Animal Sciences, Lahore
March 2014 to August, 2020	<b>Senior Tutor,</b> UVAS, Ravi Campus
16-12-2019 to 30-12-2021	<b>Professor,</b> Department of Fisheries & Aquaculture University of Veterinary and Animal Sciences, Lahore
January 2015 to 16-12-2019	<b>Associate Professor,</b> Department of Fisheries & Aquaculture University of Veterinary and Animal Sciences, Lahore
July 2006 to 28-01-2015	<b>Assistant Professor,</b> Department of Fisheries & Aquaculture University of Veterinary and Animal Sciences, Lahore
April 2004 to July 2006	<b>Lecturer,</b> Department of Fisheries & Aquaculture University of Veterinary and Animal Sciences, Lahore
November 1993 to April 2004	<b>Herbarium-cum-Museum Incharge,</b> Ayub Agricultural Research Institute, Faisalabad, Pakistan.

## **MEMBERSHIP OF UNIVERSITY STATUTORY BODIES**

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<b>Member:</b>	Syndicate, UVAS, Lahore (June 2013-to 29-01-2015)
<b>Convener:</b>	Faculty Board of Studies (April, 2020 to to-date)
<b>Convener:</b>	UVAS-Industry Liaison Working Group “Fisheries & Aquaculture”
<b>Member:</b>	Disciplinary Advisory Committee (July, 2014- Dec. 2016)
<b>Senior Tutor:</b>	UVAS Ravi Campus, Pattoki (February, 2014-to June, 2020)
<b>Convener:</b>	Department Board of Studies (Feb. 2015 to April, 2020)
<b>Member:</b>	Faculty Board of Studies (2004-2020)
<b>Convener:</b>	Synopsis Scrutiny Committee, FF&W, UVAS. (2018-2019)
<b>Member:</b>	Synopsis Scrutiny Committee FAPT, UVAS.
<b>Member:</b>	Inter University-Curriculum Committee (IU-CCC) (Fisheries & Aquaculture)
<b>Secretary:</b>	Disciplinary Advisory Committee (2006-2008)
<b>Member:</b>	Department Admission Committee
<b>Member:</b>	UVAS-Industry Liaison Working Group
<b>President:</b>	Body Building Club UVAS (2005-2006)
<b>Class Advisor and Tutor:</b>	(2010-2019)

## **MEMBERSHIP OF PROFESSIONAL SOCIETIES**

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<b>General Secretary:</b>	Pakistan Fisheries & Aquaculture Society
<b>Fellow</b>	Pakistan Fisheries Society
<b>Fellow</b>	UVAS Alumni Association
<b>Fellow</b>	Pakistan Society of Parasitology
<b>Chairman</b>	UVAS Fisheries & Aquaculture Society, UVAS, Lahore
<b>Fellow</b>	American Fisheries Association
<b>Fellow</b>	World Aquaculture Society (WAS)
<b>Fellow</b>	World Aquaculture Society Asia-Pacific Chapter (WAS-APC)

## **MEMBER OF STATUTORY BODIES/SELECTION BOARD OF OTHER HEIs**

1. Member/Subject Expert of Selection Board Ghazi University DG Khan.
2. Member Department Board of Studies Discipline of Fisheries & Aquaculture, University of Okara.
3. Member Department Board of Studies Department of Freshwater Fish Biology, University of Sindh, Jamshoro
4. Member DTRC Committee, Department of Zoology, GCU, Lahore.

## **ADMINISTRATIVE, FINANCIAL AND DEVELOPMENT EXPERIENCE**

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- April, 2020 to to-date Dean, Faculty of Fisheries & Wildlife, UVAS
- Feb. 2015 to April, 2020 Chairman, Department of Fisheries & Aquaculture, UVAS
- 2004 Prepared PC-1 of Establishment of Research & Training Facilities for Fisheries & Aquaculture, UVAS
- 2007 Prepared Revised PC-1 of Establishment of Research & Training Facilities for Fisheries & Aquaculture, UVAS
- 2017 Organizer of International Fisheries & Aquaculture Conference (IFAC-2017) at UVAS, Lahore.
- 2019 Organizer of International Fisheries & Aquaculture Conference (IFAC-2019) at UVAS, Lahore.
- 2006-2008: Secretary Disciplinary Advisory Committee
- 2014-2020 Member Disciplinary Advisory Committee
- 2018 to to-date Member Department of Punjab Fisheries Projects Review Committee

## **ACADEMICS AND RESERACH**

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- Member Punjab Public Service Commission, Lahore Selection Board (Zoology, Fisheries and Wildlife).
- Member Selection Board, Ghazi University of D GG Khan
- Member Advanced Studies and Research Board, UVAS
- Member Academic Council, UVAS
- Member Selection Board, UVAS For FF&W
- Member Deans Committee, UVAS
- HEC Approved Supervisor since 2012
- HEC National Curriculum Revision Committee (NCRC) for Zoology.
- HEC Natural Sciences and Multidisciplinary (Sciences) Journals Review Committee
- PI/Co-PI of 10 Research Projects of HEC, PARB, USPCAS-ASF, HEC-BC, BC
- Organizer: Organize 02 International Video Conferences, 03 International Conferences, several
- Seminars, Trainings, short courses and Industry group meetings to strengthen public-
- Private partnership
- Chief Organizer: Spring Festival as Senior Tutor since 2014 to 2018
- Initiated: Various degree programmes in the FF&W (BS(Hons.), M.Phil and Ph.D in Fisheries & Aquaculture, M.Sc Wetland Management, BS Zoology, M.Sc,

M.Phil, Ph.D Zoology, BS Biological Sciences and BS and M.Phil Botany)

- Undergraduate Students Produced: BS and M.Sc. 66 students
- Postgraduate Students Produced:
- Chairman Supervisory committee of 06 PhD students (under supervision)
- Member Supervisory Committee of 09 PhD students
- Chairman Supervisory committee of 26 M. Phil Students
- Member Supervisory committee of 30 M. Phil students

**FOREIGN VISITS AS ASSISTANT LINK CO-ORDINATOR, PRINCIPAL INVESTIGATOR UNDER HEC-BC PROJECTS AND FOCAL PERSON**

S.No.	Country	Visit Details	Sponsor
1	Turkey	Visited Ataturk University, Erzurum, Turkey as Focal Person. 5 <sup>th</sup> November 2018 to 18 <sup>th</sup> November, 2018	Mevlana Exchange Programme
2	Thailand	Visited Asian Institute of Technology, for Catfish breeding and culture techniques as Project Manager 28 <sup>th</sup> July 2018 to 28 <sup>th</sup> August, 2018	PARB
3	UK	Visited Scottish Fish Immunology Lab. Department of Zoology, University of Aberdeen, as Principal Investigator (August-September 2017)	HEC-BC KEP
4	UK	Visited Scottish Fish Immunology Lab. Department of Zoology, University of Aberdeen, as Principal Investigator (August 2016)	HEC-BC KEP
5	UK	Visited Scottish Fish Immunology Lab. Department of Zoology, University of Aberdeen, as Principal Investigator (June 2015)	HEC-BC INSPIRE
6	UK	Visited Scottish Fish Immunology Lab. Department of Zoology, University of Aberdeen, as Assistant Link Coordinator (October 2012).	HEC-BC INSPIRE
7	UK	Visited Scottish Fish Immunology Lab. Department of Zoology, University of Aberdeen, as Assistant Link Coordinator (October 2011)	HEC-BC INSPIRE
8	UK	Visited Aquaculture Wales, University of Wales, Swansea, as Assistant Link Coordinator (May-June 2007)	HEC-BC JHELP
9	UK	Visited Aquaculture Wales, University of Wales, Swansea, as Assistant Link Coordinator (April – May 2006)	HEC-BC JHELP

## **TRAVEL GRANTS**

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<b>S.No.</b>	<b>Country</b>	<b>Visit Details</b>	<b>Sponsor</b>
1	USA	Aquaculture America-2020: International Conference & Exposition from 09-12 February 2020 at Honolulu, Hawaii, USA. Oral Presentation.	PSF
2	USA	Aquaculture 2019: International Conference & Exposition from 07-11 March 2019 at New Orleans, Louisiana, USA. Oral Presentation.	HEC
3	Thailand	Attended two days International Conference, “Bangkok Conference on Science, Technology, and Innovation for Addressing Wildlife and Forest Crimes and Attaining SDGs” at AIT, Thailand from 28-08-2018 to 29-08-2018.	PARB
4	USA	Aquaculture 2016: International Conference & Exposition from 22-26 February, 2016 at Las Vegas, Nevada, USA. Oral Presentation.	PARB
5	USA	Aquaculture America 2015: International Conference & Exposition from 19-22 New Orleans, Louisiana, USA. Oral Presentation.	PARB
6	Viet Nam	Asia Pacific Aquaculture 2013: Conference & Exposition held at Ho Chi Minh, Vietnam from 10-12-2013 to 13-12-2013. Oral Presentation.	HEC
7	USA	Aquaculture 2013: Conference and Exposition held at Nashville, Tennessee, USA from 21-02-2013- 25-02-2013. Oral presentation.	HEC
8	Czech Republic	AQUA 2012: European Aquaculture Society (EAS) and the World Aquaculture Society (WAS) combined event, at Prague, Czech Republic, September 1-5, 2012. Presented Oral presentation.	HEC
9	Brazil	World Aquaculture 2011: An International Conference at Natal, Brazil, June 5-10, 2011. Presented Oral presentation and Judge Ph.D. Students Presentation.	PARB
10	USA	Standardized On-Site Cryopreservation for Respiratory Development for Zebrafish and other Aquatic Species. Feb. 21, 2015 at World Aquaculture Society Meeting, New Orleans, USA.	PARB

## **REVIEWER OF NATIONAL AND INTERNATIONAL JOURNALS**

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- Journal of Animal and Plant Sciences
- International Journal of Agriculture and Biology, Pakistan.
- International Journal of Fish and Shellfish Immunology, UK.
- Journal of World Aquaculture Society.
- International Journal of Fisheries & Aquaculture.
- Pakistan Journal of Agricultural Sciences.
- African Journal of Biotechnology.
- Aquaculture Research
- Journal of Applied Ichthyology
- Jordan Journal of Biological Sciences

## **MoUs/AGREEMENTS OF COOPERATION/LINKAGES DEVELOPED/SIGNED**

- Department of Fisheries, Govt of the Punjab, Lahore and Department of Fisheries & Aquaculture, UVAS, Lahore.
- UVAS-Industry Liaison Working Group on Fisheries & Aquaculture
- Faculty of Fisheries & Aquaculture, Ataturk University of Erzurum, Turkey and Department of Fisheries & Aquaculture, UVAS, Lahore.
- Mare Nostrum AS-Nutrimarine AS, Norway and Department of Fisheries & Aquaculture, UVAS, Lahore.
- School of Agriculture and Aquaculture, Tra Vinh University, Vietnam and Department of Fisheries & Aquaculture, UVAS, Lahore.
- School of Biological Sciences, University of Aberdeen, UK and Department of Fisheries & Aquaculture, UVAS, Lahore.
- Aqua Wales, University of Swansea, UK and Department of Fisheries & Aquaculture, UVAS, Lahore.
- Department of Animal Sciences, University of Laval, Quebec, Canada and Department of Fisheries & Aquaculture, UVAS, Lahore.
- College Of Veterinary Medicine, Chungnam National University, South Korea and Department of Fisheries & Aquaculture, University of Veterinary and Animal Sciences, Lahore-Pakistan
- Asian Institute of Technology (AIT) Thailand and Department of Fisheries & Aquaculture, UVAS, Lahore.
- Purdue University, Fort Wayne, USA and Department of Fisheries & Aquaculture, UVAS, Lahore.
- The Ohio State University, USA and Department of Fisheries & Aquaculture, UVAS, Lahore.



## **CONFERENCES/SEMINAR/WORKSHOPS ORGANIZED**

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- Organized One Day International Seminar on World Fisheries Day, 2019 at Department of Fisheries & Aquaculture, UVAS Ravi Campus on 21<sup>st</sup> November, 2019.
- Organized one day seminar on “Aquaculture Entrepreneurship” at Department of Fisheries & Aquaculture, UVAS Ravi Campus on 18<sup>th</sup> October, 2019.
- Organized International Seminar on “Scope of Aquaculture & Fisheries From Global Prospective” 1<sup>st</sup> Feb. 2019 at Block “C” UVAS, Ravi Campus, Pattoki.
- Organized International Fisheries and Aquaculture Conference-2019 on “Emerging for sustainable exploitation of aquatic resources” at Faletti’s Hotel Egerton Road, Lahore. Jan. 30-31<sup>st</sup>, 2019.
- Organized One Day International Seminar on World Fisheries Day, 2018 at Department of Fisheries & Aquaculture, UVAS Ravi Campus on 26<sup>th</sup> November, 2019.
- Organized one day seminar on; Growth and Breeding Potential of Genetically Male Tilapia in Pakistan at UVAS, Ravi Campus, Pattoki on 16<sup>th</sup> August, 2018.
- Organized One Day International Seminar on World Fisheries Day, 2017 at Department of Fisheries & Aquaculture, UVAS, Ravi Campus on 24<sup>th</sup> November, 2017.
- Organized 6<sup>th</sup> International Fisheries Symposium & Expo-2017 “Innovative and Sustainable Aquaculture for Blue Revolution” Feb. 8-9<sup>th</sup>, 2017 at Faletti’s Hotel, Lahore (Organizing Secretary/Focal Person).
- Organized One day seminar on World Fisheries Day, 2016 at Department of Fisheries & Aquaculture, UVAS, Ravi Campus on 21<sup>st</sup> November, 2016.
- Two-Day Training “Aquaculture and Feed Management” Jointly organized by ASA-USDA and Department of Fisheries & Aquaculture, UVAS from October, 25-26, 2016 at UVAS, Ravi Campus, Pattoki.
- One day workshop/Hands-on Training on Advanced Molecular Techniques used in Fisheries & Wildlife Research on 1<sup>st</sup> September, 2016.
- Organized/established UVAS-Industry Liaison Working Group “Fisheries & Aquaculture” meeting on 24<sup>th</sup> March, 2016 at UVAS, Ravi Campus, Pattoki.
- Organized one day seminar on World Fisheries Day, 2015 at UVAS, Ravi Campus, Pattoki on 24-11-2015 under HEC-BC KEP Project.
- Organized/established UVAS-Industry Liaison Working Group “Fisheries & Aquaculture” meeting on 16<sup>th</sup> September, 2015 at UVAS, Ravi Campus, Pattoki.
- One Day Onsite training/education of fish farmers, high school students and local community for Multan Division at Mianchannu fish hatchery on 13<sup>th</sup> April, 2013.
- One day seminar on “World Fisheries Day 2012” at Ravi Campus, UVAS, Pattoki, Under HEC-BC INSPIRE & BC SPEKE PROJECTS on 23<sup>rd</sup> November, 2012.
- One Day Seminar on World Water Day 2012 “Water and Food Security” at Ravi Campus, UVAS, Pattoki, Under HEC-BC INSPIRE & BC SPEKE PROJECTS on 22<sup>nd</sup> March, 2012.
- Seminar on “History of Indus River System” at UVAS, Lahore, on 26<sup>th</sup> February, 2009.
- Seminar on Earth day at Ravi Campus Pattoki, UVAS. 2008.
- Video Conference on, Fish Breeding and Genetics”, with Joint Collaboration of AqWa, UWS, UK, at UVAS, on 28<sup>th</sup> June, 2007.
- A Two days International Conference on, Solving Problems of Freshwater Fish Farming in Pakistan”, at UVAS, Lahore on 27<sup>th</sup>-28<sup>th</sup> November, 2006.

- Video Seminar on, “Sustainable and Integrated Aquaculture, with joint Collaboration of AqWa, UWS, UK, at British Council, Lahore, on 24-06-2006.
- One day Seminar on, “Development of Fisheries Research and Education in Pakistan” at UVAS, Lahore on 16<sup>th</sup> April, 2005.

## **WORKSHOPS/CONFERENCES/TRAININGS ATTENDED**

- Invited Speaker on “How to write a good research proposal for PARB grant. An online lecture in one day workshop at UVAS held by ORIC, UVAS on 26-10-2021.
- International Symposium on Innovative Teaching & Learning in Sustainable Seafood”. September 13-17, 2021, organized by School of Environment, Resources and Development (SERD) Asian Institute of Technology (AIT), Thailand as a part of dissemination of outcomes of the project “Curriculum Development for Sustainable Seafood and Nutrition Security (SSNS)” co-funded by EU Erasmus+ program. Invited Speaker.
- Aquaculture-Nutrition-Workshop-Virtual-Seminar-June-3-2020. Organized by USSEC.
- Attended One day Aqua Ideas Workshop at Uni. of Education, Township Campus, Lahore. 29<sup>th</sup> Feb. 2020.
- Attended two days International Conference of Applied Zoology (ICAZ) at GCU, Faisalabad, 19-20<sup>th</sup> December, 2019.
- Attended one day “Pakistan Oilseeds Summit” an International Conference at Avari Hotel, Lahore on 07<sup>th</sup> November, 2019.
- Attended one week International Training on Aquaculture Species and System Diversification organized by USSEC from 15-09-2019 to 21-09-2019 at Vietnam.
- Attended three days International Conference on Aquaculture Nutrition and Feed Formulation organized by USSEC from 25-06-2019 to 27-06-2019 at Kathmandu, Nepal.
- Attended two days International Conference on Collective Action of Knowledge Economy with Technologies (Cake-Tech) at Allama Iqbal Open University, Islamabad and presented Oral presentation as Invited Speaker. 25-26<sup>th</sup> Feb. 2019.
- Attended one month Training on Snakehead (Murrels), Catfish and Crustacean breeding and culture Techniques at AIT, Thailand under PARB funded research project from 30<sup>th</sup> July to 29<sup>th</sup> August, 2018.
- Attended 3-Day Workshop on Water Initiative South Asia (WISA) at Istanbul, Turkey, on 18-20<sup>th</sup> June, 2018. Organized by University of Brighton, UK and British Council.
- Attended 2-Day Workshop on Water Initiative South Asia (WISA) at Kathmandu, Nepal on 21-22<sup>nd</sup> November, 2017. Organized by British Council and Imperial College London.
- Attended 2-Day Workshop on Strategic Management for HODs of Public Sector HEIs of Pakistan held at Higher Education Commission, Regional

Center, Lahore. Nov. 14-15, 2017.

- Attended one day Seminar on Preparation of Technology Development Funds Projects, Jointly organized by ORIC, University of the Punjab and HEC, Islamabad at Environmental Law College Auditorium, New Campus, Uni. of the Punjab, Lahore. 26-10-2017.
- Attended Two Days HEC-BC Knowledge Economy Partners Event, 2017 at HEC Islamabad. 24-25<sup>th</sup> April, 2017.
- Attended one day seminar on “Emerging Ideas for Managing Fish Biodiversity” at Chashma Fish Biodiversity Hatchery, District Mianwali 21<sup>st</sup> March, 2017.
- Attended 37<sup>th</sup> Pakistan Congress of Zoological at GCU, Faisalabad from 28-02-2017 to 02-03-2017.
- Attended one day International seminar on “Fisheries & Aquaculture” at Department of Zoology, GCU, Lahore dated 10-02-2017.
- Attended two days 1<sup>st</sup> International Conference on Advancements in Biotechnology at GCWUF, Faisalabad on 30<sup>th</sup> -31<sup>st</sup> March, 2016.
- Attended one day seminar on Buffalo Feeding Strategies. Organized by Department of Livestock Production, UVAS at Ravi Campus on 19-04-2016.
- Attended one Day Seminar of Management of Fisheries in Small Dams at Kalar Kahar, Chakwal. Organized by Department of Fisheries, Punjab on 30-12-2015.
- Attended one Day Seminar on World Fisheries Day, 2015 at Virtual University Pakistan, Defense Road, Lahore Campus on 25-11-2015.
- Attended “Indigenous on Campus Training (IOT) under HEC Modern University Governance Program from September, 07-09, 2015 at UVAS, Lahore-Pakistan.
- Attended “Indigenous on Campus Training (IOT) under HEC Modern University Governance Program from September 09-13, 2014 at UVAS, Lahore-Pakistan.
- TWO DAYS TRAINING ON PUNJAB PROCUREMENT RULES 2014 from 17-06-2014 to 18-06-2014 Organized by UVAS, Lahore-Pakistan.
- In-Service Competency Enhancement Training for Teachers. Organized by Centre for Educational Policy & Administration from June 02-06, 2014. UVAS, Lahore-Pakistan.
- Two Day Feeding Pakistan Aquaculture Conference Organized by WISHH, SOyPak, USDA, ASA, FAO, UVAS and WAS on 2-3 April, 2014 at PC, Hotel, Lahore-Pakistan
- Two Day Workshop on water pollution and its mitigation, 19-20 December, 2012, Under HEC-BC INSPIRE & BC SPEKE PROJECTS, GCU, Faisalabad.
- Attended 32<sup>nd</sup> Pakistan Congress of Zoological, 6-8 March, 2012 at GCU, Lahore.
- Attended one day workshop on “Fish Diseases” held by Fisheries Research and Training Institute Manawan, Lahore, October, 2011.
- International Conference on Latest Techniques for Conservation of Animal Genetic Resources in Pakistan, 14-15<sup>th</sup> September, 2011 at UVAS, Lahore.
- Presented Talk in one day workshop on “Fish Nutrition” held by Fisheries Research and Training Institute Manawan, Lahore, January, 2011.

- Attended 4<sup>th</sup> National Symposium on Fisheries 18<sup>th</sup>-19<sup>th</sup>, March, 2009 at Jilani Hall, GOR-I, Lahore.
- Attended 28<sup>th</sup> Pakistan Congress of Zoological 18-20<sup>th</sup> March, 2008 at GCU, Faisalabad.
- Attended a two days conference on “Education for Wildlife Sustainability & Training Workshop for Natural Photography & GIS”, 30-31<sup>st</sup> January, 2008.
- Attended a two days workshop “Case Teaching Methodologies” held at HEC Regional Center, Lahore on Feb. 07-08, 2007.
- Attended one month “Staff Development Course” organized by HEC at UVAS, Lahore from 15-12-2006 to 25-01-2007.
- 34th SAARC Countries Science Conference Titled “Sustainable Pest Management in Modern Agriculture” organized by Pakistan Association for Advancement of Sciences at University of Veterinary and Animal Sciences, Lahore (Feb. 2006).
- National Workshop on Application of Biotechnology for Livestock and Poultry Development (Nov. - Dec. 2005 at UVAS and NIBGE)
- Training Workshop on **Digital Library Project**, UVAS, Lahore (September, 2005).
- **World Environment Day** Organized by ENVIRON MONITOR at Lahore (2004)

## RESEARCH AND DEVELOPMENT PROJECTS

S.No.	Title of Project	Funding Agency	Year	Value Rs. Million	Status
1	Prospects of induced breeding of Catfish species ( <i>Pangasius hypophthalmus</i> and <i>Wallago attu</i> ) for a sustainable supply of seed to the fish farming community of Pakistan” Approved Rs. 30.647 million (As Project Manager).	PARB	2021-2024	30.647	PI
2	Interactive Effects of Manipulated Artificial Feeds on Growth and Breeding Potential of <i>Channa spp.</i> Approved by PARB. Rs. 18.096million. (As Project Manager)	PARB	2018-2021	18.096	PI
3	Growth and breeding potential of genetically male tilapia (GMT) through artificial feed and molecular approach in Pakistan.	USPCAS-AFS	2016-2018	3.204	PI
4	To Strengthen Public/Private Partnership among Fisheries & Aquaculture Communities Through Education & Training in Punjab Pakistan.	HEC-BC KEP	2015-2018	6.227	PI
5	Prospects of culturing and breeding of Catfish ( <i>Pangasius pangasius</i> ) in Pakistan.	HEC	2013-2016	3.954	PI
6	Educating fish farming community with the deleterious effects of environmental pollutants. November 2011-14.	BC-SPEKE grants.		10000 (RS.1.4 Million)	Co-PI
7	Assistant Link Coordinator: Effect of environmental pollutants on the fish and fisheries of Punjab, Pakistan (Rs. Million).	HEC-BC INSPIRE	2011-2014	2.97	Co-PI
8	Co-Principal Investigator: Research Project “Development of Standard aqua feed for culturable major carps of Pakistan”.	HEC	2009-2012	6.157	Co-PI
9	Assistant Link Coordinator: HEC-BC Joint Higher Education British Council Link Program, Department of Fisheries and Aquaculture, UVAS, Lahore and University of Wales, Swansea, UK.	HEC-BC JHELP	2004-2007	2.2	Co-PI
10	Sustainable Production of Processed Fish Meat and Value-Added Fish By-Products	HEC - TDF	2019-2020	13.131	Co-PI
11	Development and Establishment of Model Poultry cum-Fish Farming with Nutrient Recycling: An Integrated Approach.	PARB	2018-2021	16.745	Team Member
12	PC-I for the Establishment of Research and Training Facilities for the Department of Fisheries and Aquaculture at new campus Bhunaikey, Pattoki	HEC	2005-2007	32.652	Team Member

13	Revised PC-1 for the Establishment of Research and Training Facilities for the Department of Fisheries and Aquaculture at new campus Bhunaikey, Pattoki	HEC	2008-2009	6.679	Team Member
<b>Total</b>				<b>144.062</b>	

### PREPARATION OF COURSE CURRICULUM FOR VARIOUS DEGREE PROGRAMME

- BS (Hons.) Fisheries & Aquaculture
- BS (Hons.) Zoology
- M.Sc. Zoology
- M. Sc. Wetland Management
- M.Phil/Ph.D. Zoology
- M.Phil/Ph.D. Fisheries & Aquaculture
- One Year Diploma Course in Fisheries & Aquaculture
- Fisheries & Aquaculture course for DVM
- Six months Fisheries & Aquaculture course for NAVTEC
- Fisheries & Aquaculture Course for Livestock Assistant Diploma Course
- Short courses for Fish Farmers

### FINAL PATENT

- Final patent is filed on “**A Method For Induced Breeding of Snakehead Murrel (*Channa marulius*) Sole**” **23<sup>rd</sup> September, 2021.**

### PUBLICATIONS

#### A. NATIONAL AND INTERNATIONAL IMPACT FACTOR PUBLICATIONS

1. S. Parveen, F. Rasool, M.N. Akram, N. Khan, M. Ullah, S. Mahmood, G. Rabbani and K. Manzoor (2021). Effect of *Moringa olifera* leaves on growth and gut microbiota of Nile tilapia (*Oreochromis niloticus*). Published in *Brazilian Journal of Biology*, Accepted August 5, 2021, Vol. 84 e250916. <https://doi.org/10.1590/1519-6984.250916> (**Impact Factor 1.36**).
2. Khalid Javed Iqbal, Irfan Baboo, Arshad Javid, Noor Khan, Hamid Majeed, Azra Anwer, Zahid Farooq, Muhammad Altaf and Muhammad Moazm Jalees. 2021. Toxicity study of iron-oxide nanoparticles on the hematology of *Cyprinus carpio*. Accepted in *Pakistan Journal of Zoology*. (**Impact Factor= 0.798**)
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## **B. HEC RECOGNIZED, OTHER NATIONAL AND INTERATIONAL JOURNAL ARTICLES WITHOUT IMPACT FACTORS**

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## **CO-AUTHOR OF PROCEEDINGS AND LINK REPORT**

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- Editor of Fisheries & Aquaculture -UVAS Newsletter 2016.
- Co-author of Souvenir of Fisheries International Conference on Solving Problems of Freshwater Fish Culture in Pakistan”. 2006.
- Co-author of Proceedings of Fisheries International Conference on Solving Problems of Freshwater Fish Culture in Pakistan”. 2007.
- Co-author of End of the Link Report HEC-BC Joint Higher Education Link Programme, 2007.

## **INTERNATIONAL BOOK AUTHOR**

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## PUBLICATIONS OTHER THAN RESEARCH ARTICLES

- Proceedings of the National Seminar on “Development of Fisheries Education and Research in Pakistan. 16<sup>th</sup> April, 2005. Organized by the Department of Fisheries & Aquaculture, UVAS under HEC-BC Joint Higher Education Link Programme.
- Abstract Book of International Conference on ‘Solving problems of Freshwater Fish Farming in Pakistan’ 27-28<sup>th</sup> November, 2006. Department of Fisheries & Aquaculture, UVAS, Lahore.
- Proceedings of International Conference on ‘Solving problems of Freshwater Fish Farming in Pakistan’ 27-28<sup>th</sup> November, 2006. Department of Fisheries & Aquaculture, UVAS, Lahore.
- End of Link Report (2004-2007) HEC-BC Joint Higher Education Linkage Programme. Department of Fisheries & Aquaculture, UVAS and Aquaculture Wales, University of Wales, Swansea, UK.
- Souvenir of the 6<sup>th</sup> International Fisheries Symposium & Expo-2017 “Innovative and Sustainable Aquaculture for Blue Revolution” Organized by the Department of Fisheries & Aquaculture, UVAS, Lahore from 8-9<sup>th</sup> Feb. 2017 at Faletti’s Hotel, Lahore.
- Abstract Book of 6<sup>th</sup> International Fisheries Symposium & Expo-2017 “Innovative and Sustainable Aquaculture for Blue Revolution” Organized by the Department of Fisheries & Aquaculture, UVAS, Lahore from 8-9<sup>th</sup> Feb. 2017 at Faletti’s Hotel, Lahore.
- Pakistan Journal of Zoology Supplementary Copy Number -13, pp 1-272. Proceedings of the 6<sup>th</sup> International Fisheries Symposium & Expo-2017. Published by the Zoological Society of Pakistan.
- Abstract Book of International Fisheries and Aquaculture Conference-2019, ‘Emerging Trends for Sustainable Exploitation of Aquatic Resources’ organized by the Department of Fisheries & Aquaculture, UVAS, Lahore from January 30-31<sup>st</sup>. 2019 at Faletti’s Hotel, Lahore.

## EXTENSION LITERATURE/BOOKS

- **Khan, N.** 2020. Mahigeeri sy hum baray fawaid hasil kar saktay hain. Article published in Daily Jang 30<sup>th</sup> June, 2020.
- **Khan, N., M.S. Mughal, Z. Yaqub and R. Tayyab.** 2016. Mahiparwari Ky Jadeed Tariqay. Extension Literature for Fish Farmers under HEC-BC KEP Project.
- **Khan, N.** and Y. Janjua. (2007). Fisheries. Department of Fisheries and Aquaculture and Directorate of Continuing Education and Extension, UVAS, Lahore.
- Janjua, Y and **N. Khan.** (2006). **Fish Farming.** Department of Fisheries and Aquaculture and Directorate of Continuing Education and Extension, UVAS, Lahore.
- **Newspaper Articles:** promoting aquaculture for food security. Daily Dawn 7<sup>th</sup> March, 2011. Business Review Page III.
- Aquaculture Scenario in Pakistan: Role of aquafeed in fish growth. Idara-i-Kisan. Feb. 2011.

## STUDENTS SUPERVISED

### A. Undergraduates (BS & M.Sc)

1. AYESHA ASHIQ: Impact of Varying Energy Level of Isonitrogenous Diets on the Enzymatic Activity and Haematology of *Channa marulius* at Fingerling Stage. (BS F&A 2017-2021).
2. ATTIA SHAHZADI: Use of Corn Cob Treated with Urea in the Diet of *Ctenopharyngodon idella* Fingerlings. (BS F&A 2017-2021).
3. Ali Faisal: Fish Market Survey of District Sahiwal, Punjab Pakistan with Respect to Commercially Importance Fish Species and Consumer Preference. (BS F&A 2017-2021).
4. SYED SHEHARYAR JHANGEER BUKHARI: Comparison of Mineral Profile of Farm Raised and Wild Catch of High Value Commercial Fish Species of Pakistan. (BS Zoology 2017-2021).
5. MUHAMMAD SHAHBAZ: Effect of Enzyme treated Sugarcane Bagasse on Liver and Intestine of *Labeo rohita* Fingerlings. (BS Zoology 2017-2021).
6. MISHAL KHALID: To Study The Effect of Particle Size of Corncob on the Growth and Body Composition
7. Ifra Kainat: Effect of varying dietary protein levels on growth, body composition and enzymes activity of *Channa marulius*. (2018-2020)
8. AYESHA HAMEED: Effect of Different stocking densities of *Labeo rohita* and tilapia on rowth and body composition under similar feeding regime. (2018-2020)
9. SHAMZA SAHER: Effect of Various Dietary Protein Feeds Level on The Growth, Body Composition, and Enzymes Activity of Catfish (*Pangasius Hypophthalmus*) (2016-2020)
10. Azeem Ullah Tariq: evaluation of bakery waste based fish feed digestibility in *Labeo rohita*. (2016-2020).
11. AMMARA SALEEM: Effect of Pectin Based Feed on Body Composition Growth Parameters and Histology of *Labeo Rohita* (2018-2020)
12. NOREEN ATTA: Effect Of Replacement of Rice Polish With Sugarcane Bagasse on Growth, Enzyme Activity and Heamatology Of *Catla Catla* (2018-2020).
13. Muhammad Awais: Effect of Commercial Feed on Growth, body Composition, Hematology and Serology of Genetically Male Tilapia (2017-2019)
14. Raeesa Fazal Mehmood: Effect of Commercial Feed on Growth, body Composition, Liver and Gut Health of Genetically Male Tilapia (2017-2019)
15. Samia Amanat: Influence of Various Concentrations of Omega 3 Fatty Acids And Supplementation of Vegetable Oil and Fish Oil For Growth, Body Composition and Hematology of Genetically Male Tilapia (207-2019)
16. Rukhsana Bibi: Effect of Commercial Fish Feed on Growth, Body Composition, Stress Responses and Ezyme Activities of Thaila (*Catla catla*) (2017-2019)
17. Sana Shehbaz: Effect of Different Commercial feed on Growth, Body Composition and Serology of *Labeo rohita* (2017-2019)
18. Ammara Mukhtar: Comparison of Growth, Nutrient Profile and Stress responses of Rohu (*Labeo rohita*) under similar feeding Regime in Different Culture System (2017-2019)
19. Saba Latif: Influence of Various Concentrations of Omega 3 Fatty Acids And Supplementation of Vegetable Oil and Fish Oil For Growth, Body Composition and Digestive Enzymes of Genetically Male Tilapia (2017-2019)

20. Saba Ahmad: Growth Performance Body Composition and Serology of *Pangasius (Pangasius hypophthalmus)* cultured in Polyculture system under Similar Feeding Regime (2017-2019)
21. Ayesha Muzaffar: Effect of Oxy Organic Product on the Growth, Nutrient Composition of GMT and Pond Water Quality (2017-2019).
22. Humaira Sehresh: Effect of artificial feed on growth, body composition, digestive enzyme and hematological parameters of *Catla catla*.
23. Mamoonza Zafar: To determine growth potential, body composition and digestive enzymes activity of Grass carp cultured under various concentration of CP% diets in polyculture system.
24. Quratulain Faryad: Growth performance, nutrient composition and immunological parameter of *Labeo rohita* under various CP% fish feed.
25. Mehrunisa: Effect of fish oil and soybean oil supplemented feed on growth, body composition and digestive enzyme activity of Genetically Modified Tilapia (GMT).
26. Ayesha Batool: Comparison of growth and body composition of Indian and Chinese major carps fed on traditional and artificial feed.
27. Misbah Rehmat: Effect of canola oil and sunflower oil supplemented feed on growth, body composition and digestive enzyme activity of Genetically Male Tilapia (GMT).
28. Iqra Ijaz: Comparative growth and body composition of Gift Tilapia and *Labeo rohita* fed with 30% CP artificial feed.
29. Sadaf Rubab: Growth Performance, body composition and heamatology of GMT fed with various levels of amino acid based fish feed
30. Iqra Ishaq: Growth performance, haemotology and body composition of *Pangasius (Pangasius hypophthalmus)* cultures under various artificial fish feeds
31. Asifa Tanveer: Comparitive growth, body composition and heamatology of genetically male Tilapia fed with various levels of amino acid based artificial feed.
32. Misbah Manzoor: Effect of *Neurospora sitophila* as a protein source for the growth potential and enzymes activity of Nile Tilapia (*Oreochromis niloticus*).
33. Mehar-un-Nisa: Effect of common salt (NaCl) on growth and body composition of Nile Tilapia (*Oreochromis niloticus*).
34. Asma Abbas: Effect of *Neurospora sitophila* supplemented feed on the growth, body composition and haematology of Nile Tilapia (*Oreochromis niloticus*).
35. Nida Islam: To study the abundance of phytoplankton in polyculture of catfish *Pangasius* with Indian and Chinese major carps pond.
36. Shahar Bano: Effect of fenugreek seed meal on fish growth and body composition in Nile tilapia *Oreochromis niloticus*
37. Pakeeza Shafeeq: Evaluation of various Moringa meals on the growth and body composition of *Labeo rohita*.



38. Syeda Fizza Batool: To study the abundance of zooplankton in polyculture ponds of catfish *Pangasius hypophthalmus* with Indian and Chinese major carps.
39. Farhat Sattar: Evaluation of nutritional quality of moringa (*Moringa oleifer*) meal as an alternative protein source for *Labeo rohita* fingerlings.
40. Abdul Hannan: Partial replacement of moringa meal (*Moringa oleifera*) with soybean meal for the growth and body composition of *Labeo rohita*.
41. Ammara Tayyab: Efficacy of prebiotic beta glucan as feed additive against toxicity of Aflatoxins in *Labeo rohita*
42. Atifa Sultana: Development of artificial diets for gold fish (*Carassius auratus*) to check survival, growth and coloration effects.
43. Faiza Mehboob: Effect of formic acid on survival growth and endogenous enzyme in *Labeo rohita*.
44. Saira Anwar: Effect of different artificial feed on growth body composition and oxygen consumption in catfish *Pangasius hypophthalmus*.
45. Sania Qaisar: Nutrients dynamics (Nitrogen and Phosphorus) in earthen ponds of tilapia (*Oreochromis niloticus*).
46. Muhammad Ayub Khawar: Comparison of traditional and commercial aqua feed on the growth performance, body composition and water quality parameters in composite carps culture system.
47. Tehmina Yaqoob: Effect of phytase supplementation in formulated feeds for *Pangasius hypophthalmus* to increase the use of cotton seed meal by replacing fish meal
48. Mehwish Tanveer: Effect of black pepper (*piper nigrum*) on growth and body composition of cat fish (*pangesius hypophthalmus*) fry.
49. Syeda Suhaira Batool: Impact of Azomite Supplemented Diet on The Growth and Body Composition of Catfish (*Pangasius Hypothalamus*)
50. Aqsa Mahboob: Effect of Fenugreek (*Trigonella foenum-graecum*) on Growth and Body Composition of Catfish (*Pangesius hypophthalmus*).
51. Sidra Parveen: Effect of various commercial diets on growth performances, hematological parameters and liver functioning of *Pangasius hypophthalmus*.
52. Shumaila Akram: Effect of various crude protein level diets on the growth, immunoglobulin, serum proteins and renal functioning of *Pangasius hypophthalmus*.
53. Muneeba Shahid: Effect of commercial diets on growth, body composition and endogenous enzymes of *Pangasius hypothalamus*.

54. Sehar Munawar: Comparison of Snail meal Versus Fish meal Based Diets on The Growth and Body Composition of Catfish (*Pangasius Hypophthalmus*) fry.
55. Maham Nawaz: Effect of Garlic Supplemented Diets on The Growth and Body Composition of Catfish (*Pangasius Hypophthalmus*) fry.
56. Abdur Rehman Azam: Impact of Azomite supplemented diets on the growth, body composition and endogenous enzymes of Tilapia (GMT). BS(Hons.) Fisheries & Aquaculture (2014).
57. Mudassar Khalid: Growth gene variation of GMT with F1 progeny and GIFT Tilapia strains. BS(Hons.) Fisheries & Aquaculture (2014).
58. Danial Masood: Effect of different protein levels of artificial feed on the growth, feed conversion and body composition of GMT fry. BS(Hons.) Fisheries & Aquaculture (2014).
59. Muhammad Salman Mukhtar: Assessment of Heavy Metals in Seasonal Lakes Near Balloki Head Works and Comparison of Their Water Quality. M.Sc. student, Wetlands Management, UVAS, Lahore (2013).
60. Karim Johar Khan: Apparent digestibility of selected plant based ingredients and their impacts on growth and body composition on *Cirrhinus mrigala*. BS(Hons.) Fisheries & Aquaculture (2013).
61. Hussain Mehdi: Effect of Moringa oleifera meal on growth, nutrient digestibility and body composition of *Labeo rohita*. BS(Hons.) Fisheries & Aquaculture. (2013)
62. Affifa Bari: BS(Hons.) Bioaccumulation of Copper In The Muscle Of Tilapia (*Oreochromis Niloticus*) When Exposed To Various Concentrations. BS(Hons.) Fisheries & Aquaculture (2013).
63. Waqas Ali: Assessment of heavy metals in Kasur City drains and River Sutlej. BS (Hons.) 2012).
64. Anum Zahid: Effect of Artificial Feed and Fertilization on Growth and Body Composition of Genetically Improved Farmed Tilapia (Gift). BS (Hons.) 2012)
65. Naila Zikria: Effect of different ration levels of artificial feed on the survival and growth of GIFT (Tilapia) fry. BS (Hons.) 2011)
66. Saba Alam: Chemical and sensory quality changes of fish flesh from wild and farmed *Labeo rohita* at frozen storage (-18 C). BS (Hons.) 2011)
67. Rafia Tayyab: Evaluation of *Leucaena leucocephala* (Ipil ipil) leaf meal by replacing by replacing the soybean meal as dietary protein source for *Catla catla* fingerlings. BS (Hons.) 2011)
68. Tanveer Ali Khan: Sources of fish meal and its chemical composition in Pakistan. BS (Hons.) 2011)
69. Nizam Shahid: Availability and proximate composition of animal and plant by-products used in fish feed production. BS (Hons.) 2011)
70. Muhammad Awais Nazir: Comparison of growth potential of Indian major carps fed 35% protein diet in polyculture system. BS (Hons.) 2011).

**B. Postgraduates (M. Phil/Ph.D)**

**Students Under Supervision**

- Ph. D. 06
- M. Phil: 08

### **Students Supervised**

#### **Postgraduate: (M. Phil & Ph.D.)**

1. Muhammad Awais: Influence of Dietary Nucleotides Supplementation on Growth, Body Composition, and Blood Chemistry of *Channa marulius* (Sole) (2019-2021).
2. Sadaf Khadim: Increasing the Digestibility of Corncob as Feed Ingredient by Urea Treatment for Grass Carp (*Ctenopharyngodon idella*) (2019-2021).
3. Sana Shahbaz: Effect of Particle Size of Corncob on Growth, Digestibility and Intestinal Histology of Grass Carp (*Ctenopharyngodon idella*) (2019-2021).
4. Nadia Sattar: Use of Enzyme Treated Sugarcane Bagasse in the diet of *Labeo rohita* fingerlings. (2019-20).
5. Muhammad Ayub Khawar: Effect of Urea treatment of sugarcane bagasse fed to Grass carp (*Ctenopharyngodon idella*). (2019-20).
6. Muhammad Asghar: Effect of replacement of rice polish with sugarcane bagasse in the feed of *Catla catla*. (2019-2020)
7. Humaira Sehrish: Studies on Growth, Immunomodulation and Gut Morphometry of *Labeo Rohita* Fed on Pectin. (2019-2020)
8. Said Jasim Shah: Effect of Selenium and Vitamin E on Growth and Immunity of Rainbow Trout (*Onchorhynchus mykiss*). (2018-2020).
9. Abdul Hanan: Effect of Organic Aqua Products on Pond Water Quality, Growth performance, Haematology and Anti-Oxidative Enzyme Activities of *Labeo rohita*.(2018-2020).
10. Tahreem Iqbal: Influence of Increasing Concentrations of Omega-3 Fatty Acids by Supplementation of Vegetable oil and fish oil on the Growth, Body Composition and Fatty acid Profile of Genetically Male Tilapia (GMT) (2017-2019).
11. Maryum Farid: Effect of High CP Commercial Fish Feed on the Growth, Body Composition. Amino Acid Profile and Serology of *Channa marulius* (2017-2019)
12. Sadaf Dogar: Evaluation of Growth, Body Composition and Fatty Acid Profile of Genetically Male Tilapia (GMT) Fingerlings Fed Various Dietary Oils Supplemented Diets (2017-2018).
13. Tehmina Yaqoob: Dietary supplementation of poly- $\beta$ -hydroxybutyrate on the growth, digestive enzymes activity and body composition of Rainbow Trout (*Onchorhynchus mykiss*). (2017-2018)
14. Hira Waris: Synergetic Effect of Various Levels of Dietary Essential Amino Acids (Lysine & Methionine) on Growth, Body Composition and Enzyme Activity of Genetically Male Tilapia (GMT). (2017-2018)

15. Daniel Masood: Replacing soybean meal with moringa meal (*Moringa oleifera*) for the growth, body composition, gut and liver health of *Labeo rohita* fingerlings (2017-2018).
16. Muhammad Imran: Studies on Nutritional Quality of Moringa Meal as an Alternate Source of Protein and its Effect on Growth, Body Composition, Gut and Liver Health of *Labeo rohita* Fingerlings (2016-2018).
17. Summia Parveen: Growth potential, body composition and stress responses in *Pangasius hypophthalmus* production when cultured with Indian and Chinese carps M. Phil. Zoology. (2016-17):
18. Rafia Tayyab: Comparative studies of beta glucan and plant stimulants on the growth and immune response of *Labeo rohita*. M. Phil, Zoology, UVAS, Lahore (2016).
19. Mr. Usman Atique, Assessment of Tanneries Based Heavy Metals In Fish, Water And Sediment Of River Sutlej (Near Kasur). M.Phil. student Fisheries & Aquaculture, UVAS, Lahore (2013).
20. Mr. Sajid Mahmood, Evaluation of Water Hyacinth (*Eichhornia Crassipes*) Supplemented Diet on The Growth, Digestibility and Histology of Grass Carp (*Ctenopharyngodon Idella*) Fingerlings. M. Phil. Student, Fisheries & Aquaculture, UVAS, Lahore (2013).

#### **MEMBER SUPERVISORY COMMITTEE**

##### **Ph.D:**

Major Member: 07

##### **M.Phil:**

1. Fiaza Ijaz: Effects of dietary vegetable oils on gut microbiota and enzyme activity of GMT (*Oreochromis niloticus*).
2. Saima Ismail: Assessment of heavy metals contamination in fresh milk samples from different areas of Lahore Pakistan.
3. Ambreen Khalid: Heavy metals contamination and health risk assessment in formula milk for babies.
4. Muneeba Ashraf: Comparative analysis of nutritional profile of different Tilapia strains.
5. Sheeza Bano: Proximate Composition and Amino acid profile of fish flesh of farmed and wild Indian major carps of Pakistan.
6. Mr. Muhammad Akram: Weight-Length relationship and fish fauna at Baloki (Kasur) and Sulemanki (Okara) head works. M. Phil. Zoology, Department of Fisheries & Aquaculture, UVAS, Lahore.
7. Mr. Behlol Abbas: Development of molecular markers for pure broodstock selection, breeding and rearing of ornamental fishes. M. Phil. Zoology, Department of Fisheries & Aquaculture, UVAS, Lahore.

8. Miss Iqra Farooq: Gel based inactivated vaccine production against *Aeromonas hydrophila* in grass carp. M. Phil. Zoology, Department of Fisheries & Aquaculture, UVAS, Lahore.
9. Syed Shafaat Hussain: Intraspecific genetic variations amongst the populations of *Labeo rohita* M. Phil. Student Department of Fisheries & Aquaculture, UVAS, Lahore.
10. Mr. Tariq Khan: Stock Assessment of Trout in Upper River Swat. M. Phil. student Fisheries & Aquaculture, UVAS, Lahore. (2013)
11. Ahsan Khalid: Comparison of nutrient profile and organoleptic acceptability of various steamed and fried Indian and Chinese carps (M.Phil. 2011).
12. Muhammad Sohail: Variation of the primary and secondary productivity in monoculture and polyculture system of fish pond. (M.Phil, 2010)
13. Huma Tufail: Prevalence and effects of *lernaea* spp. (anchorworm) on the growth, skin histopathology and hematology of *catla catla* (thaila). (M.Phil, 2010).
14. Khalid Javed Iqbal: Effect of different salinity levels on the growth of tilapia (*Oreochromis niloticus*) raised in cemented hatchery tanks. (M.Phil, 2009).