

## FACULTY MEMBER ACADEMIC PROFILE

1. **Full name of the faculty member:** Prof. Nagesh Talagunda Srinivasan
2. **Designation** : Professor
3. **Specialisation** : Fisheries Resource Management
4. **Contact information** : Faculty of Fishery Sciences,  
West Bengal University of Animal and Fishery Sciences,  
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### 5. Academic qualifications:

College/ university from which the degree was obtained	Abbreviation of the degree
College of Fisheries, University of Agricultural Sciences, Mangalore, Karnataka	B.F.Sc.
College of Fisheries, University of Agricultural Sciences, Mangalore, Karnataka	M.F.Sc.
The University of Burdwan, Burdwan, West Bengal	Ph.D.

### 6. Positions held/ holding or Work Experience:

- Research Fellow; from January 1997 to December 1997 at College of Fisheries, Mangalore.
- Lecturer; from 15<sup>th</sup> January 1998 to 14<sup>th</sup> January 2007 at Faculty of Fishery Sciences, W.B.U.A.F.S.
- Reader from 15<sup>th</sup> January 2007 to 14<sup>th</sup> January 2010 at Faculty of Fishery Sciences, W.B.U.A.F.S.
- Associate Professor from 15<sup>th</sup> January 2010 to 14<sup>th</sup> January 2013 at Faculty of Fishery Sciences, W.B.U.A.F.S.
- Professor from 15<sup>th</sup> January 2013 till date at Faculty of Fishery Sciences, W.B.U.A.F.S.

### 7. Membership of Learned Societies:

- Asian Fisheries Society, Manila, Philippines
- Asian Fisheries Society Indian Branch, Mangalore, Karnataka.
- Inland Fisheries Society of India, Barrackpore, West Bengal.
- Society of Fishery Technologists, CIFT, Cochin.
- Natural Science Society, Ajmer

### 8. Invited lectures delivered:

SL No.	Title of Lecture / Academic Session	Title of Conference / Seminar	Organized by
1	Impact of exotic species in India	Quality fish production of Indian major carps and prevailing of fish breeding techniques.	Department of Fishery Biology and Resources Management, Faculty of Fishery Sciences, WBUAFS, Mohanpur on 19.02.2014
2	Role of stress in aquaculture	Disease issues and health management in aquaculture systems	Department of Aquatic Animal Health, Faculty of Fishery Sciences, WBUAFS, Chakgaria on 16.02.2015.
3	Blue revolution – opportunities, challenges and approaches	Bio-Resource, Environment and Agricultural Sciences (ICBEAS)”	The Institute of Agriculture, Visva-Bharati & The Society of Bio-resource, Environment and Agricultural Research, Visvabharati,

			Santhiniketan during 4-6 February, 2017.
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#### 9. Awards:

- ICAR Junior Research Fellowship (1994-96)
- National Eligibility Test conducted by ASRB (1996)
- Best Teacher (2003) - Awarded by Professional Fisheries Graduates Forum, Mumbai.
- Best Teacher (2007) - Awarded by Professional Fisheries Graduates Forum, Mumbai
- Best Teacher (2011) - Awarded by Professional Fisheries Graduates Forum, Mumbai
- Rashtriya Gaurav Award (2013) – Awarded by India International Friendship Society
- Gold medal for Best Poster Presentation (2013) - Awarded by Zoological Society of India

#### 10. Conference/ seminar attendant:

SL No.	Title of Conference / Seminar	Organized by
1	Fourth Indian Fisheries Forum	Asian Fisheries Society Indian Branch, School of Sciences, Cochin from 24-28 November, 1996
2	National Conference on “Aquaculture and Steps to Maintain High Production”	Faculty of Fishery Sciences, WBUAFS, Mohanpur from 21-22 January, 2000
3	Fifth Indian Fisheries Forum	Asian Fisheries Society Indian Branch and CIFA, Bhubaneswar from 17-21 January, 2000
4	Workshop on “Scanning Electron Microscopy”	University Science Instrumentation Centre, The University of Burdwan, West Bengal 12-15 February, 2002
5	Workshop on “ Fisheries Stock Assessment – Capacity Building	Department of Fisheries, Govt. Of West Bengal, Kolkata from 12-15 August, 2005
6	Symposium on “Ecosystem Health and Fish for Tomorrow”	CIFRI in collaboration with IFSI, CIFRI, Barrackpore, West Bengal from 14–16 December, 2007
7	Eighth Indian Fisheries Forum	AFSIB, IFSI, and CIFRI, Kolkata, from 22-26 November, 2008
8	17 <sup>th</sup> West Bengal State Science and Technology Congress	WBUAFS in association with Paschim Banga Vigyan Mancha, Kolkata from 4-5 March, 2010
9	Golden Jubilee National Seminar on “Diversification of Aquaculture through locally available fish species”	CIFE, Kolkata from 27-28 August, 2010
10	National Seminar on “Technological development in fish processing packaging”	Director of Fisheries and WBUAFS at CIFE, Kolkata on 1 <sup>st</sup> October, 2010
11	21 <sup>st</sup> All India Congress of Zoology-National Seminar on “Biodiversity Conservation with Special Reference to Fisheries and its Management for Food, Livelihoods and Environmental Security”	Zoological Society of India, Bodh Gaya; CIFRI, Barrackpore and Inland Fisheries Society of India, Barrackpore from 21–23 December, 2010
12	9 <sup>th</sup> Indian Fisheries Forum	Asian Fisheries Society Indian Branch and CMFRI at Chennai from 19-23 December, 2011
13	PAF Congress on “Public-Private Partnership in Aquaculture and Culture based fisheries”	PAF, IFSI, CIFRI at Barrackpore, Kolkata from 9-11 February, 2013
14	100 <sup>th</sup> Indian Science Congress	Calcutta University during 3-7, January 2013 at Kolkata.
15	24 <sup>TH</sup> All India Congress of Zoology & National Seminar on “Biodiversity and its Management for Food, Livelihood & Environmental Security” & National Helminthological Congress	Kalyani University, Kalyani, West Bengal from 23-25 November, 2013
16	Regional Training and Awareness Program on “J-Gate@CeRA”	NRCP (ICAR), Rani, Guwahati, Assam on 19 <sup>th</sup> November, 2014

17	National Symposium on “Enhancement of Livelihood Security through Sustainable Development of Livestock and Fishery sector”	WBUAFS, Kolkata from 10-11 January, 2017
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### 11. Other notable activities:

- Co-investigator in eight research projects
- Plan and inculcate students using array of teaching aids and skills to motivate and engage students in active learning
- Incorporate learning modality principles into classroom and individual instruction
- Actively involved in establishment of fish museum of the Faculty.
- Coaching and counseling students for national competitive examinations such as JRF/SRF/NET/ARS
- Field trial on stress response and its mitigation in sewage fed fish farm during at Haripota, Bamanghata sewage fed fish farm.
- Documentation of threatened fish species in Nadia and Howrah districts of West Bengal.

### 12. Publication:

#### a. National Publication:

1. N Rishikanta Singh, SK Das, Sanjeev Kumar, Dibakar Bhakta, S. Behera, **T.S. Nagesh**, and Anadamoy Mondal. (2017). Limnology and productivity status in wetlands (Beels) of 24-South Parganas district, West Bengal. *Journal of Entomology and Zoology Studies*. **5(2)**: 664-668. NAAS: 5.53.
2. Samarendra Behera, B. K. Biswas, **T.S. Nagesh**, Sanjeev Kumar, N. A. Talwar and Rinku Gogoi. (2017). Growth, mortality and exploitation level of Bombay duck, *Harpodon nehereus* from estuarine region of Kakdwip, West Bengal, India. *Environment and Ecology*. **34(3)**: 971-975. NAAS: 4.18.
3. Supriya Rani, **T. S. Nagesh**, G. Dash and T. J. Abraham. (2016). Haematological response of *Labeo rohita* (Hamilton) fingerlings exposed to low salinities. *Indian Journal of Fisheries*. **63(2)**: 127-131. NAAS: 6.16.
4. V. Vinaya Kumar, A. Devivaraprasad Reddy, R. Avinash, C.H. Balakrishna, Y. Satyanaryana, **T.S. Nagesh** and Sudhir Kumar Das. (2016). Bioindices and Reproductive Biology of Bombayduck, *Harpodon nehereus* (Hamilton, 1822) along Sunderban region of West Bengal, India. *Ecology, Environment and Conservation*. **22(4)**: 221-228. NAAS: 4.89.
5. Saptarshi Mondal, Samarendra Behera, Sanjeev Kumar, **T.S. Nagesh**, N. A. Talwar, Rinku Gogoi, Anish Das and Sudipta Sarkar. (2016). Population dynamics of big eye hilsa, *Ilisha megaloptera* from estuarine region of Diamond Harbour, West Bengal. *Ecology, Environment and Conservation*. **23(2)**: 962-967. NAAS: 4.89.
6. Sanjeev Kumar, Samarendra Behera, **T.S. Nagesh**, Rinku Gogoi and Bhanu Prakash Ch. (2016). Effect of  $17\alpha$  methyltestosterone on the growth performance of a fighting fish (*Betta splendens*). *Journal of Experimental Zoology, India*. **19(1)**: 89-93. NAAS: 5.51.
7. Sanjeev Kumar, Samarendra Behera, **T.S. Nagesh**, S. K. Das, Rinku Gogoi and N.R. Singh. (2015). Effect of  $17\alpha$  methyltestosterone on the survivability, sex reversal and maturity of fighting fish (*Betta splendens*). *The Bioscan*. **10(1)**: 01-06. NAAS: 5.26.
8. Saptarishi Mondal, Samarendra Behera, Sanjeev Kumar, **T.S. Nagesh**, N. A. Talwar, Rinku Gogoi, Anish Das and Sudipta Sarkar. (2015). Length-weight relationships and condition factors of bigeye hilsa, *I. megaloptera* from estuarine region of Diamond Harbour, West Bengal. *Journal of Innovative Science, Engineering and Technology*. **2(5)**: 217-228.
9. N. Rishikanta Singh, S. K. Das, Sanjeev Kumar, S. Behera and **T.S. Nagesh**. (2015). Length-weight relationship and relative condition factor of mrigal *Cirrhinus mrigala* (Hamilton) reared in bheries of 24- South Paraganas district in West Bengal. *Journal of Environment and Sociobiology*. **12(2)**: 201-208.
10. Samarendra Behera, Sanjeev Kumar, Rinku Gogoi, **T.S. Nagesh**, S. K. Patro and A. Biswas. (2014). The effect of synthetic hormones ( $17\beta$ -estradiol and  $17\alpha$ - methyl testosterone) on the phenotypic, bioindices and gonadal changes of male of dwarf gourami, (*T. Lalius*). *Uttar Pradesh Journal of Zoology*. **34(3)**: 167-172. NAAS: 3.81.
11. V. Vinaya Kumar, A. Devivaraprasad Reddy, Sampurna Roy Choudhury, C. H. Balakrishna, Y. Satyanaryana, **T.S. Nagesh**, Sudhir Kumar Das. (2014). Morphometry and meristic counts of Bombay

duck, *Harpodon nehereus* (Hamilton, 1822) along Sunderban region of West Bengal, India. *Proceedings of the International Academy of Ecology and Environmental Sciences*. **4(3)**: 95-105.

12. T.J. Abraham, D. Sasmal, G. Dash, **T.S. Nagesh**, S.K. Das, S.K. Mukhopadhyay and S. Ganguly (2013). Epizootology and pathology of bacterial infections in cultured shrimp *Penaeus monodon* Fabricius 1798 in West Bengal, India. *Indian Journal of Fisheries*; **60(2)**: 167-171. NAAS: 6.16
13. N. Subenthung Odyuo and **T.S. Nagesh** (2012). Fisheries and management status of Doyang Reservoir, Nagaland, north-east India. *Indian Journal of Fisheries*. **59(2)** : 1-6. NAAS: 6.16.
14. Hazarika, P.J, **Nagesh, T.S.** and Bhattacharjya, B. K. (2012). Ichthyofaunal Diversity of Kakorikota Beel of Majuli Island, Assam. *National Journal of Life Science*, **9(1)**: 21-25. NAAS: 3.73.
15. Hazarika, P.J, **Nagesh, T.S.** and Bhattacharjya, B. K. (2012). Status of fishery and its management in Kakorikota Beel of Majuli Island, Assam. *Asian Journal of Bio Science*, **7(2)** : 145-150. NAAS: 3.54.
16. Bipul Mazumdar and T.S. Nagesh. (2012). Length-weight relationship and relative condition factor of *Parastromateus niger* (Bloch, 1795) off the coast of West Bengal, India. *Interacademecia*.334-342: NAAS: 3.96.
17. Bipul Mazumdar, T.S. Nagesh and N.A. Talwar. (2012). Growth and Exploitation Level of Black Pomfret, *Parastromateus niger* (Bloch) off the West Bengal Coast. *Fishery Technology*. **49(2)** : 99-102. NAAS: 5.25.
18. N. Subenthung Odyuo and T.S. Nagesh (2011). Fishes of the Doyang Reservoir, Nagaland. *Journal of Inland Fisheries Society of India*. **43(2)**: 82-88. NAAS: 4.54.
19. Bipul Mazumdar and **T.S. Nagesh** (2011). Reproductive biology of black pomfret, *Parastromateus niger* (Bloch) off the West Bengal coast, India. *Aquacult*. **12(1)**: 151-154.
20. Joshita O.Devi, T.S. Nagesh and N.A. Talwar (2010). Growth and Mortality of *Pampus argenteus* (Euphrasen) from Kakdwip Estuarine Region of West Bengal, India. *Environment and Ecology*, **29(3)**: 1166-71. NAAS: 4.18.
21. K. K. Adak and T. S. Nagesh (2009). Chromosomal analysis of selected freshwater ornamental fishes. *J. Environment & Sociobiology* **6(1)**: 1-5.
22. Mandal, B., Nagesh, T.S. Behera, S. and Devi, O.J. (2008). Length-weight relationship and relative condition factor of Gangetic bola, *Johnius gangeticus* Talwar from estuarine region of Kakdwip, West Bengal. *Journal of Inland Fisheries Society of India*. **40(2)**: 78-82. NAAS: 4.54.
23. Devi, O.J., Nagesh, T.S., Das, S.K. and Mandal, B. (2008). Length-weight relationship and relative condition factor of *Pampus argenteus* (Euphrasen) from Kakdwip estuarine region of West Bengal. *J. of Inland Fisheries Society of India*. **40(2)**: 70-73. NAAS: 4.54.
24. T.S. Annappaswamy, H.R.V. Reddy and **T.S. Nagesh** (2007). Reproductive biology of Indian sandwhiting, *Sillago sihama* (Forsk.) from estuaries of Dakshina Kannada, South West coast of India. *Journal of Inland Fisheries Society of India*, **40(1)**: NAAS: 4.54.
25. Mandal, B. and **Nagesh T.S.** (2007). Growth, mortality and exploitation level of Gangetic bola, *Johnius gangeticus* Talwar from estuarine region of Kakdwip, West Bengal, India. *Environment and Ecology*. **255(4)**: 1012-1016. NAAS: 4.18.
26. Jana, D. and Nagesh, T.S. (2007). Karyological analysis of three threatened freshwater fishes of West Bengal. *Journal of Inland Fisheries Society of India*. **39(1)**: 60-63. NAAS: 4.54.
27. Chakraborty, R., Das, S.K., Behera, S., **Nagesh, T.S.** and Khan, Md. I. (2007). Body composition in relation to gonado-somatic index in *Channa striatus* (Bloch). *Journal of Inland Fisheries Society of India*. **39(1)**: 66-67. NAAS: 4.54.
28. Annappaswamy, T.S. Reddy, H.R.V. and Nagesh, T.S. (2007). Age and growth of the Indian sandwhiting, *Sillago sihama* (Forsk.) from estuaries of Dakshina Kannada, along South West coast of India. *Journal of Inland Fisheries Society of India*. **39(2)**: 16-22.
29. J. Barman, **T.S. Nagesh** and T.S. Annappaswamy. (2006). Karyotype study of two species of murels from a floodplain wetland of West Bengal. *Aquacult*. **7(2)**: 311-314.
30. J. Barman, **T.S. Nagesh** and T.S. Annappaswamy. (2006). Cytogenetic characterization of two threatened freshwater fishes of West Bengal. *Aquacult* **7(2)**: 319-322.

31. S. Behera, Md. Ismile Khan, S.K. Das and **T.S. Nagesh**. (2005). On the fecundity of striped gourami *Colisa fasciatus* (Bloch and Schneider). *Journal of Inland Fisheries Society of India*. **37(1)**: 68-70. NAAS: 4.54
32. **T.S. Nagesh**, J. Barman and D. Jana. (2004). Karyomorphological study of three freshwater ornamental perches of West Bengal. *Journal of Inland Fisheries Society of India*. **36(2)**: 45-48. NAAS: 4.54.
33. **T.S. Nagesh**, Debasish Jana, Ismile Khan and Oldalin Khongngain. (2004). Length-weight relationship and relative condition of Indian major carps from Kulia beel, Nadia, West Bengal. *Aquacult*. **5(1)**: 85-88.
34. **T.S. Nagesh**, A.R. Ghosh, T.J. Abraham and D. Sasmal, 2004. Effect of physico-chemical parameters on epicommensal fouling in shrimp farming systems of West Bengal. *Environment and Ecology*. **22(3)**: 621-627. NAAS: 4.18.
35. Sabyasachi Bandyopadhyay and **T.S. Nagesh**. (2004). Influence of natural food, conventional diet and pelleted feed on gastric evacuation rate of *Hypophthalmichthys molitrix* fingerlings. *Aquacult*. **5(1)**: 93-96.
36. T.S. Annappaswamy, H.R.V. Reddy and **T.S. Nagesh** (2004). Length-weight relationship of Indian sandwhiting, *Sillago sihama* (Forsk.) in Mulki estuary, Mangalore. *Journal of Inland Fisheries Society of India*. **36(1)**: 18-22. NAAS: 4.54.
37. T.S. Annappaswamy, H.R.V. Reddy, K.S. Venkateshamoorthy and **T.S. Nagesh**. (2004). Food and feeding habits of the Indian sandwhiting, *Sillago sihama* (Forsk.) from the estuaries of Dakshina Kannada, Southwest coast of India. *Journal of Nature Conservation*. **16(1)**: 135-141.
38. **T.S. Nagesh**, N. Jayabalan and T.J. Abraham. (2003). Reversal of starvation induced soft-shelling in *Penaeus monodon* juveniles. *Indian Journal of Animal Health*. **42(2)**: 170-173. NAAS: 4.01.
39. **T.S. Nagesh**, N. Jayabalan, C.V. Mohan, T.J. Abraham and T.S. Annappaswamy. (2002). Relationship between water quality parameters and soft-shell syndrome in cultured *Penaeus monodon*. *Journal of Inland Fisheries Society of India*. **34(1)**: 23-27. NAAS: 4.54.
40. Annappaswamy, T.S., Reddy, H.R.V., Shanbhogue, S.L. and **Nagesh, T.S.** (2002). Feeding Periodicity, gastric evacuation rate and daily ration of fingerlings of rohu, *Labeo rohita* (Hamilton). *Journal of Aquaculture in the Tropics*. **16(3)**: 211-220. NAAS: 3.86.
41. T.R.C. Gupta, Gangadhara Gowda, Chandrakanta Lingadhal, N.V. Yateeshchandra, Sasi Nayar, **T.S. Nagesh** and K.A. Narayana (2002). Nitrogenous nutrients in the estuaries of Dakshina Kannada and Udupi districts : Part – I. **In:** The Fifth Indian Fisheries Forum Proceedings. S. Ayyappan, J.K. Jena and M. Mohan Joseph (eds.). 275-280.
42. T.R.C. Gupta, R.J. Katti, H.C. Sharatchandra, Chandrakanta Lingadhal, H. Venkatesh Prabhu, **T.S. Nagesh**, M.T. Lakshmipathi and K.A. Narayana. (2002). Distribution of organic carbon in relation to sediment characteristics in the estuaries of Dakshina Kannada and Udupi districts : Part – III. **In:** The Fifth Indian Fisheries Forum Proceedings. S. Ayyappan, J.K. Jena and M. Mohan Joseph (eds.). 281-285.
43. T.R.C Gupta, C. Lingadhal, **T.S. Nagesh** and M.T. Lakshmipathi (2002). Primary production and plant pigments in the rivers of Dakshina Kannada and Udupi districts. *Journal of the Inland Fisheries Society of India*. **34(2)**: 18-22. NAAS: 4.54.
44. T.R.C. Gupta, C. Lingadhal, H.V. Prabhu, **T.S. Nagesh** and K.A. Narayana (2001). Monitoring of riverine and estuarine water quality of Dakshina Kannada and Udupi districts, Karnataka – Part II: Nutrients. *Journal of Inland Fisheries Society of India*. **33(2)**: 42-49. NAAS: 4.54.
45. Vishwanath, T.S., **Nagesh, T.S.** and Gireesha, O., 2000. Epizootic ulcerative syndrome of fishes – A Review. *Fishing Chimes*. **20(5)**: 35-39.
46. Lakshmipathi, M.T., Ramesh, T.J. and **Nagesh, T.S.** (2000). Studies on sediment characteristics in relation to tides of Nethravathi estuary, Mangalore. *Current Research*. **29**: 147-149.
47. Annappaswamy, T.S., Reddy, H.R.V., **Nagesh, T.S.** and Mansingh K. Naik. (2000). Effect of diet composition, starvation and feeding frequency on gastric evacuation rate in rohu, *Labeo rohita* fingerlings. *Karnataka Journal of Agricultural Sciences*. **13(1)**: 120-124. NAAS:3.5.

#### **b. International Publication:**

1. Julinta R.B., Abraham, T.J., Anwasha Roy, Jesmine Singha, Gadadhar Dash, **Nagesh T.S.** and Patil, P.K. (2017). Histopathology and wound healing in oxytetracycline treated *Oreochromis niloticus* (L.) against

*Aeromonas hydrophila* intramuscular challenge. *Journal of Aquaculture Research and Development*. **84(4)**: 488. IF: 1.47.

2. Chitra Pakhira, **T.S. Nagesh**, T.J. Abraham, G. Dash, S. Behera. (2015). Stress responses in rohu, *Labeo rohita* transported at different densities. *Aquaculture Reports*. **2**: 39-45. (Elsevier Publication).
3. **Nagesh, T.S.**; Abraham, T.J. and Ghosh, A.R. (2009). Threats Associated with Non-infectious Diseases in Modified Extensive Shrimp Farming Systems of West Bengal, India. *Asian Fisheries Science*. **22(3)**: 1015-1029. NAAS: 4.55
4. T. Jawahar Abraham, Shubhadeep Ghosh, **T.S. Nagesh** and Debasis Sasmal (2004). Distribution of bacteria involved in nitrogen and sulphur cycle in shrimp culture systems of West Bengal, India. *Aquaculture*. **239** : 275-288. NAAS: 7.89
5. **Nagesh, T.S.**, Jayabalan, N., Mohan, C.V., Annappaswamy, T.S. and Anil, T.M. (1999). Survival and histological alterations in the juvenile tiger shrimp, *Penaeus monodon* exposed to saponin. *Aquaculture International*. **7**: 1-9. NAAS: 6.96

**c. Popular Articles:**

1. **Nagesh, T.S.** and Ashok Hegde, 2004. Transgenic Fish. *Science Reporter*, May 2004.
2. Samarendra Behera, S.K. Das and **T.S. Nagesh**, 2004. Present status and future prospects of a threatened fish *Anabas tesudineus* in West Bengal. *Fishing Chimes*. **24(3)**: 56.
3. **Nagesh, T.S.** and Vishwanath, T.S., 2001. The Coral reef – its ecosystem and fisheries. *Infofish International*. **5** (September/October): 55-57.
4. **Nagesh, T.S.**, Jayabalan, N. and Ashok Hegde, 1999. Chronic soft-shell syndrome in penaeid shrimps. *Fisheries World*. **6(9)**: 14-15.
5. **Nagesh, T.S.**, Annappaswamy, T.S. and Ashok Hegde, 1998. Implications of moulting in shrimp culture. *Fishing Chimes*. **17(11)**: 20-21.
6. **Nagesh T.S.**, 1995. “Meenugala Valase” (Fish Migration in regional language Kannada). *Vijnana Sangathi*. **2(5)**: 9.

**d. Books/ Books chapter:**

1. N. Subenthung Odyuo and **T.S. Nagesh**. (2012). Ichthyofaunal diversity and eco-fishery status of Doyang reservoir, Nagaland. In: Diversification of Aquaculture (Eds. Archana Sinha, Subhendu Datta and B.K. Mahapatra). Narendra Publishing House, Delhi, India. p 139-150.

**e. Manuals:**

1. Nagesh T.S. (2017). Laboratory manual on “Taxonomy of Finfish -Part 1 and 2”.
2. Nagesh T.S. (2002). Laboratory manual on “Fish Physiology”.

*Signature of the faculty member*