

CURRICULUM VITAE

SUMMARY

Dr. Asfa M. Yasin (M.Sc., M.Phil., Ph.D.) was born at Kanpur, Uttar Pradesh in 1955. After obtaining Master's Degree in Zoology (Fisheries) from Kanpur University, joined Department of Zoology, Aligarh Muslim University for M.Phil. and Ph.D. programmes, completed in 1978 and 1984 respectively.

- She started professional career as Assistant Professor in Fisheries at Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur in 1984 and worked till 1989 was involved in teaching, research, extension programmes.
- Later, from 1989 to 1995 she worked as Scientist at Shere-Kashmir University of Agricultural Sciences and Technology (SKUAST), Srinagar, Jammu & Kashmir was involved in teaching and extension.
 - Total teaching experience is 10 years.
- In 1992-93, she was nominated by ICAR, Govt. of India, to undertake advance long-term training programme in Fishery Science under Colombo Scientist Exchange Programme, sponsored by Australian International Development Assistance Bureau (AIDAB) at Deakin University, Victoria, Melbourne, Australia.
- Joined NCERT in 1995 as Lecturer in Vocational Education at PSSCIVE, Bhopal.
- In 2001, through open selection she was selected as Reader at PSSCIVE, Bhopal.
- In 2003, guided M.Phil. thesis in Applied Fisheries area, Aquaculture Department, Barkatullah University, Bhopal, as Co-guide.
- In 2005, she was given charge of Head of Division of Agriculture Division, PSSCIVE, Bhopal and continuing till date.
- As Member Secretary, she was involved in the organization of NFG meetings in different parts of the country and preparation of Position Paper on Work and Education.
- NCERT: Member of PAC, National Resource Group on Sarva Shiksha Abhiyan, Minority Cell, Author's Committee for Textbook writing.
- In 2007, as Member of NCERT Delegation, she visited Afghanistan for cooperation in the area of Education and Vocational Education.
- Total publications to her credit are 69 including 12 under publication. These include research papers, abstracts presented in National & International Seminars and Journals, articles and textbooks, practical manuals, curricula, question bank, pre-vocational module, instructional material for neo-literates in Fisheries (in Hindi), compendia of occupation based modules in

Inland and Marine Fisheries, enterprises in fisheries and modules in fisheries for persons with mental retardation.

- She actively participated in Hindi Pakhwara programme of the institute and have won prizes in competitions of poetry, debate, translation, etc.
- Presently, she is actively engaged in development programmes in National Vocational Education Qualification Framework (NVEQF), proposed in the new scheme of MHRD on Vocational Education.

Her contact number is 09425372283 and e-mail is asfayasin@rediffmail.com.

1. Details of Professional Experiences, Contributions, Recognitions and Awards

A *Area of Work*

- Vocational Education – general aspects
- Vocational Education – related to Fisheries
- Vocational Education – related to Agriculture
- Vocational Education – related to Value Education
- Teaching, Research and Extension – Fisheries
- Work-Centered Education (WCE)
- National Vocational Education Qualification Framework (NVEQF)

Task

- Development
- Research
- Extension
- Teaching
- Evaluation of NGOs
- Fish Farm Management
- Fish Seed Production
- Survey of Lakes for Fish Fauna of J&K

In capacity of –

- Programme Coordinator
- Project Coordinator
- Contributor
- Subject Expert
- Resource Person
- Scientist
- Teacher
- Farm In-charge
- Member Secretary

B International Experience

- (i) Invited by Network of Aquaculture Centers in Asia (NACA) as Member for Consortium on Aquaculture Education for South–East Asian countries, at Vietnam, Sponsored by FAO, (2001).
- (ii) Coordinator for International Relations (2006-07) – PSSCIVE
 - Programme proposals for countries namely Namibia, Afghanistan, Nepal, and Greece.
 - Programme proposal for UNESCO's special programmes for implementation of NCF-2005.
 - Coordinated development of 'LIFE Kit' – UNESCO.
- (iii) Visited Afghanistan July 7-22, 2007 as Member, NCERT delegation for extending cooperation and technical support in education including vocational education and training.

- (iv) Attended International Seminar on School Curriculum: Policies and Practices in South East Asian Countries organised by NCERT, 2009 – invited for presentation on Work and Education.
- (v) Under Colombo exchange programme attended 9 months training programmes at Deakin University, Australia, nominated by ICAR, Govt. of India and sponsored by Australian International Development Assistance Bureau (AIDAB), 1992-93.

C Chairperson, Member Secretary and Member of various Committees

NCERT, New Delhi

1. Member, Author's Committee for Class IX Science Textbook, nominated by Director, NCERT, New Delhi.
2. Member Secretary, National Focus Group (NFG) on Work and Education
3. Member, Minority Cell
4. Member, Mahila Samakhya, Uttar Pradesh (nominated by Director, NCERT), nominated by Director, NCERT, New Delhi.
5. Member, National Resource Group on Sarva Shiksha Abhiyan (SSA)
6. Director's nominee for Managing Committee Meeting of RIE, Bhopal
7. Member, PAC for three years 2011-14

PSSCIVE, Bhopal

1. Member, Draft Committee for Centrally Sponsored Scheme (CSS) on Vocational Education, MHRD, Govt. of India
2. Coordinator, International Relations
3. Executive Editor, Quarterly Bulletin
4. Coordinator, National Consultative Meeting for VET
5. Member – Editorial Board of Indian Journal of Vocational Education (IJVE)
6. Coordinator, Hindi Pakhwara
7. Member, Purchase Committee
8. Member, Departmental Promotion Committee (DPC)
9. Chairperson, Women Complaints Committee
10. Chairman, Inspection Committee for purchases of the institute
11. Member Secretary, Planning, Implementation and Monitoring Committee for academic programmes of the institute
12. Chairperson, NCERT Awards Screening Committee
13. Member, Strategic Plan Development Committee
14. Coordinator, Institute Advisory Board (IAB)

RIE, Bhopal

1. Member, Selection Committee
2. Paper setter for teachers' recruitment test
3. Member, Departmental Promotion Committee (DPC)

D Recognition and Awards

Recognition

High Level Committee Meetings

- **Invited to attend Prime Minister's high power (Sachchar Committee) meeting for education of minorities – vocational education and training (November, 2005).**
- **Invited to attend Justice Ranganathan Mishra committee's meeting for welfare of the minorities – need of vocational education programme (March, 2006).**

Awards

- (i) Felicitated by an educational society in Madhya Pradesh, MECAPS, Bhopal for her contribution in the field of fisheries and vocational education and training for minority groups and women (2002).
- (ii) Conferred 'Fellow of Academy' of Academy of Science Engineering and Technology (ASET), Bhopal (2007).
- (iii) Conferred award of Leading Professional of the World 2010 in the arena of VET by International Biographical Centre, Cambridge, England.

2. Contributions

A. Research Contributions

Projects (4)

1. Project entitled 'Development of District Plan on VET for Bhopal', 2008, PSSCIVE programme – Project Coordinator.
2. Project entitled 'Study of Vocational Aspirations & Preferences of Students and School leavers of Sehore District of Madhya Pradesh in Agriculture and Allied Sectors', 2005, PSSCIVE programme – Team Member (participation in tool development, survey, interviews, data interpretation and report writing).
3. ERIC project entitled 'A Case Study of School-Industry Linkage of some vocational institutions of Maharashtra, 2002 – Principal Investigator.
4. Co-guide of M.Phil. thesis entitled 'Study on the Development of Seasonal Village Ponds for Fish Seed Rearing and Short Term Culture' Barkatullah University, 2003.

B. Development

1. Books – 11 (including 7 books in CRC form)
2. Curricula – 7 (printed)
3. Modular curricula – 20 (under preparation) for NVEQF
4. Instructional material for Modular Curricula in Inland Fisheries – 7 (self written)

C. Details of contributions

1. Vocational Education – General Aspects

- (i) *Development*: Participation as Coordinator, Expert and Resource Person
 - Guidelines for Accreditation, Certification and Evaluation of NVQ System of VET, PSSCIVE (2001) – Resource Person
 - Open Vocational Education Framework – National Institute of Open Schooling (NIOS), New Delhi (2005) – Theme Contributor
 - Units on Vocational Education for M.Ed. for IGNOU, New Delhi (2008) – Author
 - Development of Scheme of Vocationalization of Senior Secondary Education, MHRD, Govt. of India – Committee Member
- (ii) *Research*
 - NCERT – ERIC sponsored research project entitled “A Case Study of school industry linkage of some vocational institutions of Maharashtra” (2003) – Principal Investigator
 - Survey conducted for the Development of District Plan on VET for Bhopal (2007), PSSCIVE – Project Coordinator
- (iii) *Extension*: Organized 13 Programmes – as Coordinator
 - Orientation Programmes on Vocational Education for State Key Functionaries of Vocational Education (4)
 - Orientation Programme on Vocational Education for Minority Institutions (5)
 - Orientation Programmes on Vocational Education for Women Key Functionaries of Minority Institutions (1).
 - Orientation Programmes on Vocational Education for Key Functionaries of Madarasas (2)
 - Consultation Meeting on VET for Western Region (1)
 - Coordination of orientation programmes and dissemination of information on VET as State Coordinator of M.P. and J&K.
- (iv) *Consultancy*
 - Consultancy and guidance provided to M.P. State Minority Commission and Madarsa Board of M.P., State Directorate of M.P. (Vocational Education Wing) in the implementation of VEP and curriculum revision respectively.
- (v) *Evaluation of Minority Institutions*
 - Evaluation of minority institutions of Madhya Pradesh, seeking financial assistance for starting NIOS accredited vocational courses, as Evaluation Team Member (2007).
- (vi) Member, National Resource Group (NRG) on Sarva Shiksha Abhiyan (SSA) MHRD, Govt. of India – attended various meetings held at NCERT.

2. Vocational Education – Agriculture Area (PSSCIVE Programmes)

- (i) *Development Programmes*
 - Curriculum Development on Agro-forest produce – 2 years vocational course (2002) – Resource Person

- Modular curricula development – Seed Production Technology (2005) – Resource Person
 - Compendium of Projects for Small Enterprises in Agriculture (2002) – Project Coordinator
 - Development of Modular Curricula in Post Harvest Technology and Dairy Technology (2009) – Resource Person
 - Development of Modules in Fisheries for Persons with Mental Retardation (2001) – Resource Person
- (ii) *Research Project*
- Study of Vocational Aspirations and preferences of students and school leavers of Sehore District of Madhya Pradesh in Agriculture and allied sectors. Participation in tool development, survey, interviews, data interpretation and report writing (2004-05) – Team Member.
- (iii) *Extension Programmes*
- Orientation Programme for agriculture area vocational teachers at Dharwad (2002) – Project Coordinator
 - Article on agriculture sector for vocational education programme – entitled "Agriculture as potential sector for self-employment" – Hindustan Times, 2003 – Author
 - Delivered extension lectures to farmers, students, and village youth on agriculture related vocational trainings and self-employment avenues through VET.

3. Vocational Education – Fisheries

- (i) *Development Programmes:* Books (10), Curricula (7), Compendia (4), Question Bank (1)
- (ii) *Training:* Training Programme for Vocational Teachers of Fisheries Vocational Course (2003) – Coordinator
- (iii) *Extension:* Delivered several extension lectures for students and farmers for fisheries as self-employment venture, organised by MVM Govt. PG College, Bhopal; Barkatullah University, Bhopal.

4. Vocational Education – Value Education

As Task Force Member of Institute's Value Education Cell (2001-03)

- (i) *Development*
- Development of module on value education in context of vocational education for orientation programme on VEP – Team Member
 - Guidelines for implementation of value education in context of vocational education – Team Member
 - Value education component in pre-vocational module on Fisheries – Contributor
- (ii) *Extension*
- Coordinated Orientation Camps (2)
 1. Orientation Camp on Value Education through Vocational Education for state key-functionaries of Karnataka (2002)

2. Try-out of the guidelines on Value Education in selected schools of Madhya Pradesh at Bhopal (2002)
 - Participated in Value Education Camps as Resource Person at Indore and Bhopal (2002)
 - Seminar on “Value Inculcation through Vocational Education” and involved in report preparation (2001) – Team Member
 - Presented paper entitled "Nurturing Values through Vocational Education" in “Regional Seminar on Nurturing Values through School Education held at Regional Institute of Education, Bhopal – February 6-8, 2003.

5. *Work-Centered Education (WCE)*

National Curriculum Framework (NCF), 2005: As Member Secretary, following programmes were undertaken for the furtherance of Work and Education:

- (i) Presentation on Work Centered Education (WCE) in various programmes viz., International seminar and video conference programmes organised by NCERT and delivered several invited lectures.
- (ii) Organization of Orientation Programme for state key functionaries and teachers of Madhya Pradesh (August 9-10, 2009).
- (iii) Development of Guidelines for the implementation of WCE (contributed chapters 1, 2, 3 and 5) – Project Coordinator and Contributor.
- (iv) Participation and contribution in National Steering Committee Meetings at NCERT.
- (v) 'Evaluation of Science Book of Class VII for Integration of Concept of WCE', and Class VIII in Social Studies', 2009, CIVE programme – Resource Person.

3. **Academic involvements in other organizations**

- (i) **External Examiner of various Universities for practical examination of degree programmes.**
- (ii) **Setting papers in the area of Fisheries, CBSE, New Delhi.**
- (iii) **Setting papers for teachers recruitment written test of RIE, Bhopal.**

IGNOU, New Delhi

- (iv) Attended meetings for National Vocational Educational Qualification Framework (NVEQF) at IGNOU, New Delhi.
- (v) Written four B.Ed. (VET), School of Vocational Education (SOVET), IGNOU, New Delhi.

NIOS, New Delhi

- (i) Member, Theme Contributors of Curriculum Framework for Open Vocational Education, NIOS, New Delhi.
- (vii) International Conference on Integration of Academic Courses with VE in Secondary School; organized by NIOS, New Delhi from 17 to 19 February, 2012.
- (viii) Member, Inspection Committee of Minority Institutions of M.P. constituted by NIOS, New Delhi.

MVM Govt. PG College, Bhopal

- (ix) As expert in various meeting for development of instructional materials/books and DST projects.

Barkatullah University, Bhopal

- (x) As expert for meetings in Aquaculture occupations.
- (xi) Co-guide – M.Phil. thesis.

SCERT, Government of Madhya Pradesh, Bhopal

- (xii) As expert in various academic committees for curriculum, textbooks and portfolio development and subject expert for integration of agriculture in all subjects from Classes II to X, MP SCERT, Bhopal.

4. Memberships of Professional Societies

- (i) Fellow – Academy of Science, Engineering & Technology (ASET), Bhopal
- (ii) Life Member – AFS Indian Branch, Mangalore, India
- (iii) Life Member – Indian Society of Vocational Education, Bhopal.
- (iv) Life Member – Indian Fisheries Association, Central Institute of Fisheries Education (CIFE), Mumbai.

5. Other Experiences

Editing

- (i) Curricula, Compendia and Text books, PSSCIVE publications – 22**
- (ii) Quarterly Bulletin of PSSCIVE – Executive Editor (2005, 06, 07)**
- (iii) Achievements of PSSCIVE (2006)**

Translation (as project coordinator): English to Hindi

- (i) Curricula - 03**
- (ii) Books - 02**

Preparation of Reports of Programmes – Coordinated (about 30 programmes)

- (i) National Seminars**
- (ii) National Meetings**
- (ii) Consultation Meetings**
- (iii) Orientation Programmes**
- (iv) Teachers Training Programmes**
- (v) Orientation Camps**

Preparation of programme proposals (about 60)

- (i) Agriculture Division
- (ii) Core Programmes of the Institute

6. Publications

Books, papers, abstracts, chapters and units, articles – 58 published

Books – 7 (CRC form and 4 units of IGNOU, New Delhi)

Total – 69

I. Books (11)

1. S.N. Dwivedi, Asfa M. Yasin & K.K. Jain (2001). Field Guide – Fresh water Fish Culture”, published by Oriental Research Foundation, Bhopal, 2002.
PSSCIVE Publications
2. Fish Breeding and Seed Production – Practical Manual Class XII (2003) – Project Coordinator and Contributor.
3. Table Fish Raising and Recipes – Pre-Vocational Instructional-cum-Practical Manual (2003) – Project Coordinator and Contributor.
4. “Mathsya palan main swarojonmukhi kriya” (Hindi version) for neo-literates (2001) – Project Coordinator.

*CRCs of text books and practical manuals submitted to NCERT
(Project Coordinator)*

5. Inland Fisheries (General) – Theory Class XI
6. Inland Fisheries (General) – Practical Class XI (a supplement)
7. Riverine and Reservoir – Fisheries Theory Class XI
8. Aquaculture – I – Theory Class XI
9. Aquaculture – II – Theory Class XII
10. Aquaculture – II – Practical Class XII
11. Fish Breeding and Seed Production – Theory Class XII

II. Competency Based Curricula for +2 Vocational Course (7)–Project Coordinator

1. Inland Fisheries (1997)
2. Inland Fisheries Hindi version (1997)
3. Fish Seed Production (2003)
4. Fish Seed Production Hindi version
5. Marine Fisheries (2002)
6. Fish Processing Technology
7. Fish Processing Technology Hindi version

III. Question Bank (1) – Project Coordinator and Contributor

1. Question Bank in Inland Fisheries, 2001.

IV. Compendia (4) – Project Coordinator and Contributor (Annexure I)

1. Compendium of Modules for Persons with Mental Retardation – 10 Modules (in Fisheries), 2003.
2. Compendium of Occupation Based Modules in Marine Fisheries – 52 Modules, 2003.
3. Compendium of Projects for Small Enterprises in Agriculture (Fisheries) – 9 Projects (in Fisheries), 2003.
4. Compendium of Occupation Based Modules in Inland Fisheries – 22 Modules, 2001.

V. Chapter and Units in Textbooks (6)

1. Science Textbook for Class IX, NCERT, 2003 – Contributed chapter as member, author's team (published).

Units – IGNOU, New Delhi

2. Unit–4, entitled "Life Long Learning: Vocational Education and Training (VET)" in Block–5, Futuristic Approach of Course: Education for DEC-NCTE, M.Ed. Programme, 2008 (published).
3. Unit–11, entitled "Vocational Education: Its Role and Significance", in Block 3 of Course: Education for B.VET Programme (under publication).
4. Unit–3, entitled "On-the-Job Training (OJT)" in Block 3 of Course: Pedagogy of VET courses for B.VET Programme (under publication).
5. Unit–4, entitled "Production-cum-Service-cum-Training Centre" in Block 3 of Course: Pedagogy of VET Courses for B.VET Programme (under publication).
6. Course: Pedagogy of VET (Block–1), Pedagogy of Work (as second Author) (under publication).

VI. Papers and Articles

Papers (30)/ Abstracts (4)/ Articles (6)

1. Asfa M. Yasin (2011). *Scope of ODL system for RPL of Vocational Skills*, accepted for presentation in the International Conference on Integration of Academic Courses with Vocational Education in Secondary Schools; organized by National Institute of Open Schooling (NIOS), New Delhi.
2. Asfa M. Yasin (2011). *Biodiversity, Conversation and Women Folk*, paper presented in the National Seminar on Conservation and Management of Biodiversity in 21st Century, February, 26-27, 2011, Organised by MVM Govt. P.G. College, Bhopal. Abs. No. 196, Pg No. 100, full length paper has been accepted for its publication in Seminar proceedings (in printing).
3. Asfa M. Yasin (2011). *Tourism Fisheries as Job Oriented Vocational Courses*, paper presented and printed in Proceedings of National Seminar on Integrated Management of Water Resources with Reference to Biodiversity and Livelihood, organized by Academy of Science, Engineering and Technology, Bhopal from 16 to 17 January, 2010. Abs No. 388, Pg No. 122.
4. Asfa M. Yasin (2010). *Work for Environment 'WE': Educational Concerns* published in Abstract No. 11, National Conference on Frontiers in Technologies for Conservation of Environment, organised by Dhempe College of Arts and Science, Goa from February 10-11, 2011.
5. Asfa M. Yasin (2010). *Productive Work as Pedagogical Tool in School Education*, accepted in *Pertanika Journals*, Research Management Centre (RMC), Universiti Putra, Malaysia.

6. Asfa M. Yasin (2010). *Skilled Human Resource Development for Fisheries Sector in Biological Forum*, an International Journal, New Delhi, Vol. 1 (2) : 84-87, ISSN-0975-1130.
7. Asfa M. Yasin (2009). *Scenario of Employment Opportunities and VET in Bhopal District – A study*. IJVE (ISSN), Vol. X, No. 1 & 2 (2008), Pg No. 128, published in 2011.
8. Asfa M. Yasin (2009). *Participation of Corporate Sector in the Skill Development Programme for Fisheries*, in the National Workshop on “Advances in Aquaculture and Fisheries Perspective, Prospects and Challenges”, jointly organized by Ministry of Agriculture, Government of India, ILDEX and Academy of Science, Engineering and Technology held at Pragati Maidan, New Delhi, July 3, 2009. Souvenir, p-113-115.
9. Asfa M. Yasin (2009). *Strategies for Modular Employable Skills Development Programme in Fisheries*, in the “20th All India Congress on Zoology” held at CIFE, Mumbai, December 29-31, 2009. Abstract BRMP 89.
10. Asfa M. Yasin (2009). *Fisheries as Value Addition for Sustainable Agriculture*, delivered invited talk in “National Conference on Sustainable Management of Agriculture”, jointly organized by State Directorate of Agriculture, Goa, and Dhempe College of Arts and Science, Goa, February 5-6, 2009. Published as invited talk 07 (XII-XIV).
11. Asfa M. Yasin (2009). *Need for Vocational Education and Training in Sports*, in “Akash Sports News (Fortnightly)”, New Delhi, dated 16-30 November, 2009.
12. Geetanjali Deshmukh and Asfa M. Yasin (2009). *Skill Development and Importance of Sea Vegetables from the Sea*, in the “National Workshop on Advances in Aquaculture and Fisheries Perspective, Prospects and Challenges”, jointly organized by Ministry of Agriculture, Government of India, ILDEX and Academy of Science, Engineering and Technology (ASET), Bhopal, held at Pragati Maidan, New Delhi, July 3, 2009. p-113-115.
13. Asfa M. Yasin (2009). “Global warming ek vishwavyapi chinta” (Hindi title). Abstract in the National Seminar in Hindi on “Global Warming”, organized by National Institute of Oceanography, Goa held at Goa, August 3-4, 2009. p-19-20. Full length paper in Hindi published in Sagar Bodh No. 3, NIO, Goa.
14. Asfa M. Yasin (2009). *Fish in Sports*, in “Akash Sports News”, New Delhi. December, 2009 issue.
15. Asfa M. Yasin (2009). *Empowerment of Minorities through Vocational Education and Training*, as invited speaker in the National Seminar on “Minority Education in India: Issues of Access, Equity and Inclusion”, organized by Aligarh Muslim University, Aligarh, held at Aligarh, March 7-8, 2009.

16. Asfa M. Yasin (2008). *Lifelong Learning: Vocational Education and Training*, Unit – 4, M.Ed. course, Indira Gandhi National Open University (IGNOU), New Delhi. p-38-47.
17. Asfa M. Yasin (2008). *Value Inculcation for Youths to Become Youthful*, in the National Seminar on “Yoga for Fostering Youth Energy” held at Bhopal, February 19-20, 2008. p-26-34.
18. Asfa M. Yasin and Vipin Kumar Jain (2007). *Implementation of Work Centered Education in School System*, in the National Conference on “Vocational Education: Trends and Issues”, VOCTEC, organized by Government of Maharashtra, held at Pune, May 2-3, 2007, p-77-81.
19. Asfa M. Yasin and Vipin Kumar Jain (2006). *Work Centered Education as Bed Rock for Vocational Education and Training*, in the proceedings of the National Seminar on “Vocational Education and Training: Present Practices and Future Directions”, organised by PSSCIVE, Bhopal, held at Bhopal, July 4-6, 2006. p-78-84
20. Asfa M. Yasin and Vipin Kumar Jain (2006). *Work Centered Education as Bed Rock for Vocational Education and Training*, in the “13th Foundation Day Function”, organized by PSSCIVE, Bhopal, held at Bhopal, October 13, 2006. p-105.
21. Asfa M. Yasin and R.K. Pathak (2006). *Agriculture Sector of Madhya Pradesh: Perspective of VET*, in the “13th Foundation Day Function”, organized by PSSCIVE, Bhopal, held at Bhopal, October 13, 2006. p-28-30.
22. **Asfa M. Yasin, Mohammad Yasin and Ashish Dwivedi (2005). *Role of TVET in the Conservation of Biodiversity with reference to India*, *Indian Journal of Vocational Education*, Vol. 6(2), Vo. 7(1). p-24-29.**
23. Asfa M. Yasin (2004). *School-Industry Linkage in Vocational Institutions of Maharashtra State: A Case Study*, Quarterly Bulletin of PSSCIVE, 2004.
24. Asfa M. Yasin and S.N. Dwivedi (2003). *Vocational Education for the Development of Knowledge System in Fisheries Sector*, Journal of Indian Fisheries Association, CIFE, Mumbai. Vol. 30. p-183-187.
25. Kiran Mathur, Asfa M. Yasin and D.P. Singh (2003). *Nurturing Values through Vocational Education*, in the Regional Seminar on “Nurturing Values through School Education”, held at Regional Institute of Education (RIE), Bhopal, February 6-8, 2003. p-226-236.
26. Asfa M. Yasin (2003). *Agriculture as Potential Sector for Self-employment in Madhya Pradesh*, in Hindustan Times, dated 3 December 2003.
27. Asfa M. Yasin (2002). *Collaborative Model for Fisheries Education*, in “Sixth Indian Fisheries Forum”, organized by Asian Fisheries Society, Indian Branch held at CIFE Mumbai, December 17-20, 2002.

28. Asfa M. Yasin (2002). Skills in Aquaculture for Human Resource Development (HRD). Abstract published in the proceedings of National Seminar on HRD in Fisheries and Aquaculture for Eastern and North-Eastern India held at CIFE, Kolkata Centre from 14 to 15 March, 2002. Abstract No. CA-52, Pg No. 156-157.
29. Asfa M. Yasin (2001). *Technical and Vocational Education and Training for Minority Institutions*, Aligarh Muslim University, Old Boy's Association, Bhopal. P-15-17.
30. Ashish Dwivedi and Asfa M. Yasin (2000) Economic Liberalization : National and International Perspectives. Indian Journal of Vocational Education Vol.3, No. 2 and Vol.4 No.1
31. V. Harshan and Asfa M. Yasin (2000) Strategies for Enhancing Reservoir Fish Production in Madhya Pradesh. National Seminar on Bio-diversity Conservation of Aquatic resources with respect to Threatened Fish Mahaseer, held at MPCST, Bhopal, 25-26 February 2000. Pp 39.
32. Dwivedi S.N. Tamot and Asfa M. Yasin (1997) Fisheries Education, Status and Perspectives for 2000 AD and beyond: Indian Journal of Vocational Education Vol.(2) Pages 53-56.
33. Asfa M. Yasin (1996) Prospects of Fisheries in India and Needs for Skilled Manpower in "Skilled Manpower in Agriculture – Prospects and Modalities for Development" published by PSSCIVE, BHOPAL, Page No. 119-130.
34. Asfa Mumtaz and M.S. Chari (1987) Efficiency of residual oxygen test for toxicity testing I. Effects of metals to *C. punctatus*. Indian Journal Environment Protection 7(1) : 18-20.
35. Asfa Mumtaz (1986) Behavioural Toxicology I.: *C. punctatus* under mercury stress. Indian Journal of Environmental Protection 6(3): 185-188.
36. M.S. Chari, J.K. Sahgal and Asfa Mumtaz (1985) On some aspects of river energetics and sewage disposal Science and Environment Vol.7 (1&2): 45-49.
37. Anil Chatterji, Iqbal, I.A. Khan, Musharraf Ali and Asfa Mumtaz (1981) A study on the ecology of River Kali in Aligarh, India, Indian Journal of Animal Research 15(1): 63-67.
38. Asfa Mumtaz (1981) Ecology of Chautal, Environmental Research, 1(11) : 44-48.
39. Asfa Mumtaz (1980). Effect of some physico-chemical conditions on the occurrence of some Benthic organisms in a fresh water ecosystem. Science and Environment Volume 1(1)75-80.
40. Anil Chatterji, M. Ali and Asfa Mumtaz (1979). A note on the length-weight relationship of Kalbasu *L. calbasu* (Ham). Indian Journal Fisheries Vol.27 (1&2).

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A Research

1. *Compendium of Modules in Fisheries for Persons with Mental Retardation (10 Modules)*

1. Fish Packager
2. Basket Maker
3. Fisherman-cum-Net Mender
4. Fish Farm Helper
5. Rack/Pen/Cage Making Helper
6. Fish Processing Helper
7. Fish Filleting Helper
8. Net Maker and Mender
9. Fish Curing Helper
10. Helper for Fish Meal Preparation

2. *Compendium of Occupation based Curricula in Inland Fisheries (22 Modules)*

1. Basket Maker and Packager
2. Fisherman/Net Maker
3. Laboratory Attendant/Farm Attendant
4. Watch and Ward Attendant
5. Fish Breeder
6. Field Assistant
7. Farm Technician
8. Cage/Raft/Pen Culture Assistant
9. Feed Technician
10. Aquarist
11. Farm Electrician
12. Laboratory Assistant
13. Seed Production Assistant
14. Marketing Assistant
15. Gear and Craft Technician
16. Extension Assistant
17. Fishery Estate Assistant
18. Fishery Survey Assistant
19. Farm Supervisor
20. Hatchery Operator
21. Land Surveyor and Farm Designer
22. Fish Breeding Supervisor

B. Compendium of Occupation Based Curricula in Marine Fisheries (51 Modules)

Marine Fisheries — Capture

1. Fisherman
2. Net Maker/Net Mender
3. Laboratory attendant
4. Lascar/Khalasi
5. Cook on board
6. Craft Attendant
7. Fishing Hand/Deck Attendant
8. Greaser/Engine Room Assistant/Oil-man
9. Electrical Assistant
10. Carpenter – Fishing crafts
11. Fabricator/Welder/Machinist (for steel boats)
12. Deck Assistant
13. Tindal/Syrang/Bosun
14. Mechanic - Marine Diesel Engine
15. Fishing Net Operation Assistant
16. Communication Assistant/Radio Telephone Operator (Shore Station)
17. Launch Driver upto 40 HP/Engine Driver (40-120 HP)
18. Craft Maintenance Assistant
19. Skipper
20. Engineer
21. Fishing Gear Technician/Supervisor
22. Naval Architect

Marine Fisheries — Mariculture–Hatchery

23. **Seed Collector**
24. **Hatchery Attendant**
25. **Fieldman – Shrimp Seed Production**
26. **Fieldman – Edible Oyster and Mussel Culture**
27. **Fieldman – Seaweed Culture**
28. **Fieldman – Crab Culture**
29. Electrician
30. Transport Attendant
31. **Sand Filter Operator**
32. **Hatchery Operator (Shrimp)**
33. **Hatchery Operator (Oyster and Mussels)**
34. **Field/Farm Assistant**
35. **Farm Assistant (Seaweed)**
36. **Planter (Pearl Culture)**
37. **Live Feed Culturist**
38. **Hatchery Supervisor (Marine)**
39. **Supervisor (Mariculture Operations)**
40. **Supervisor (Marine Products Marketing)**

Marine Fisheries — Fish Processing Technology

41. Peeler, Dresser and Grader
42. Filletter
43. Refrigeration Plant Helper
44. Fish Processing Assistant
45. Fish Curing Assistant
46. Packaging Assistant
47. Product Development Assistant
48. Lab Assistant/Quality Control Assistant
49. Marketing Assistant
50. Product Development Supervisor
51. Marketing Supervisor

**C. Compendium of Projects for Small Enterprises in Agriculture (Fisheries)
(9 Projects)**

1. Running a Farm for Raising Brood Stock
2. Running a Farm for Table Fish Production
3. Fish Seed Production through Indoor Hatchery
4. Running a Fish Seed Production Unit
5. Running a Fish Meal Production Unit
6. Running a Net Making and Mending Unit
7. Running a Fish Fillet Production Unit
8. Running a Air Breathing Fish Farm
9. Running a Integrated Farm for Paddy-cum-Fish Culture