

## CV

### QUENDARISA KHARBULI *PhD*

**Title of the Ph.D thesis:** "Biochemical Genetic Studies on few species of *Channa*"

#### **Academic Qualifications:**

- **Ph.D Zoology, North-Eastern Hill University, Shillong - 2004**
- **M.Sc Zoology, North-Eastern Hill University, Shillong (Specialization in Genetics) - 1995**
- **B.Sc Zoology (Honours), North-Eastern Hill University, Shillong - 1993**

#### **SWAYAM Course(s) Completed with e-Certification:**

- **LMS MOODLE (2 Credits) – NITTTR (NITTTR Chennai)**
- **Foundations of R Software (4 Credits) – NPTEL (IIT Kanpur)**
- **Descriptive Statistics with R Software (3 Credits) – NPTEL (IIT Kanpur)**

#### **Employment History:**

- **Synod College, Shillong. Department of Zoology & Higher Secondary**
  1. **Lecturer (1997-2003)**
  2. **Senior Lecturer (2003-2008)**
  3. **Selection Grade (2008-2009 March)**
- **North Eastern Hill University, Shillong. UGC – Malaviya Mission Teacher Training Centre (Formerly Academic Staff College 2006-2015; Formerly Human Resource Development Centre 2015-2024).**
  1. **Reader March (2009-2012)**
  2. **Associate Professor March (2012-)**
- **Additional Teaching (Guest Lecturer)**
  - **North Eastern Hill University, Shillong (2015-2019).** Department of **Nanotechnology** IInd Semester M.Tech programme. Paper Environmental Nanotechnology and Nanobiotechnology (NT 203).
  - **Synod College, Shillong (2018-2019)..** Department of **Political Science**, PG. Statistical Package for Social Sciences.
  - **North Eastern Hill University, Shillong (2019-2021).** Department of **Sociology** Ph.D Course Work programme. Computer Application in Data Analysis.
  - **North Eastern Hill University Shillong (2020-2022).** Department of **Zoology**. M.Sc Programme IIIrd Semester: Paper "Aquatic Biology and Fisheries" (ZOO-C: 303). M.Sc Programme IIIrd Semester: the paper Genetics (ZOO-C:105 (a)).

## Activities:

### A. ASC/HRDC/MMTTC-North-Eastern Hill University (2009-2024):

#### i. Programme/Courses Coordinated 85

	Programme/Courses	Number
1.	Orientation Programme/ Faculty Induction Programme (24 working days/144 contact hours)	30
2.	Summer/Winter School (18 working days/108 contact hours)	05
3.	Refresher Course in Tribal Studies Inter-/Multidisciplinary (18/12 working days/108/72 contact hours)	03
4.	Short Term Courses in Research, MOOCs, Environment, Soft-Skills, Academic Administrators (6 working days/36 Contact hours)	18
5.	Workshop on E Content Development/MOOCs (6 working days/36 Contact hours)	05
6.	Workshop on Stress Management, E Content Development, Assessment and Evaluation (3-days)	03
7.	Workshop for Principals	01
8.	One-Day National Webinar on NEP 2020	14
9.	Malaviya Mission Teacher Training Programme (MMTTP) (8working days/24 contact hours)	06

ii. **Participants Trained: 4044** (Teachers of Colleges and Universities, Research Scholars, Librarians, Physical Educators, Academic Administrators etc)

iii. **Lectures delivered: 476** (OP/FIP/RC/STC/Workshops conducted by ASC/HRDC/MMTTC-NEHU)  
**Areas: Research and Development; Information and Communication Technology; Gender; Nanobiotechnology; Leadership; Mentoring; NEP 2020; Higher Education; Capacity Building**

<b>Topic(s) of Lectures</b>	
1.	<i>Academic Performance Indicator (API) 2010, 2013, 2016, 2018 Regulation</i>
2.	<i>Faculty Development Programme (FDP)</i>
3.	<i>Preparation of Research Proposal (Minor Research Project) (Activity included)</i>
4.	<i>Concept of Measurement (Activity included)</i>
5.	<i>Levels of Measurement (Activity included)</i>
6.	<i>SPSS (Statistical Package for Social Sciences) Environment</i>
7.	<i>Descriptive Statistics, Measures of Association</i>
8.	<i>Quantitative Analysis of Categorical Outcome (Crosstab and Loglinear)</i>
9.	<i>Logistic Regression</i>
10.	<i>Gender and Biology: Sex Differentiation and its Disturbances</i>
11.	<i>Building Leadership Qualities through Teacher Training Programmes: Role of HRDCs</i>
12.	<i>Drug Delivery Systems through nanomaterials</i>
13.	<i>An Overnight Transition to Digital Mode of Teaching: Motivating Teachers to Adopt, Adapt and Acclimatize</i>
14.	<i>Preparation of E-Content Development for SWAYAM MOOCs Proposal (Activity included)</i>
15.	<i>Swayam Central: Awareness for professional development</i>
16.	<i>MOODLE Environment: Creating an online pedagogy for Blended Teaching</i>
17.	<i>Presentation Tube: An Online Delivery Tool</i>
18.	<i>Mentoring: Mentor – Mentee pairing the Process</i>
19.	<i>Role and Responsibilities of National Agencies: HRDCs</i>
20.	<i>Motivated, Energized, And Capable Faculty: Impact of training through HRDCs</i>
21.	<i>Implementation of NEP 2020: Role of HRDCs in Building Leadership Qualities.</i>
22.	<i>Statistical Software in Scientific Research</i>

23.	<i>Innovative pedagogical approaches and assessment and evaluation strategies in building the Graduate Attributes</i>
24.	<i>National Academic Depository and Academic Bank of Credits</i>

iv. **Administrative Responsibilities:**

Sl. No.	Type of Activity
1.	Director In-charge in absence of Director
2.	Special Invitee Academic Advisory Committee
3.	Member Purchase Committee
4.	Member Library Committee
5.	University SWAYAM Co-coordinator

**B. Counselling/Mentoring/Meetings on Credit Transfer through SWAYAM online courses:**

- **Development and Upload of 9 video recorded lectures for NEHU YouTube channel .“A Guide to Online courses through SWAYAM for Students and Faculty of Higher Education”. April 2024**
  - Lecture 1: Awareness of the SWAYAM platform for online courses, <https://youtu.be/WBbfh6WSY0c>
  - Lecture 2: SWAYAM Community, <https://youtu.be/wcve9u3O8Ng>
  - Lecture 3: Role of Department SWAYAM Mentor, [https://youtu.be/P2qP\\_7B89F8](https://youtu.be/P2qP_7B89F8)
  - Lecture 4: Create Account in SWAYAM Portal, <https://youtu.be/tclJVfO9HoA>
  - Lecture 5: Calculating the up to 40% Online Credit Course, <https://youtu.be/9Lki9DMvI2w>
  - Lecture 6: Alignment of the Course Duration between the Online and Conventional Learning, <https://youtu.be/KL8SJIsF-rU>
  - Lecture 7: Enroll for Course(s), <https://youtu.be/JtFxlUr0Fc>
  - Lecture 8: Assessment, Evaluation and Certification, <https://youtu.be/uTIKIznky6w>
  - Lecture 9: Academic Bank of Credits, <https://youtu.be/yyHgT6pjVxU>
- **University SWAYAM Co-coordinator**

Year	University		
August 3, 2023	Department SWAYAM Mentors (DSM)		
2023	Department of Botany	Students	DSM
2023	Department of Biotechnology and Bioinformatics	Students	Faculty
October 6, 2023	School of Humanities <b>Deeksharambh</b>	Students	Faculty
December 5, 2023	Head of Departments		
2023	Department of Adult and Continuing Education	Students	DSM
2023	Department of Linguistics	Students	Faculty
2023	Department of Law	Students	DSM
2024	Department of Physics	Students	DSM
2024	Department of Anthropology	Students	Faculty
2024	Department of Sociology	Students	DSM
	<b>Affiliated Colleges</b>		
March 15, 2024	Principals of Affiliated Colleges		
April 25, 2024	<i>Workshop on the “Implementation of SWAYAM Courses”</i> organized by Kiang Nangbah Government College, Jowai	Faculty of Colleges in West and East Jaintia Hills	
April 26, 2024	<i>Workshop on “SWAYAM MOOCs”</i> organized by Nongstoin College, Nongstoin	Faculty of Colleges in West and South West and Eastern West Khasi Hills	
April 30, 2024	<i>Workshop on the “Implementation of SWAYAM MOOCs”</i>	Faculty of Colleges in Shillong	

	organized by Synod College, Shillong	West, North and Mawlai	
May 17, 2024	Workshop on “ <b>SWAYAM MOOCs</b> ” organized by Sngap Syiem College, Mawkyrwat	Faculty	
May 23, 2024	Workshop on “ <b>SWAYAM</b> ” organized by Tirof Sing Memorial College, Mawkyrwat	Faculty of Colleges in Eastern West Khasi Hills	
May 30, 2024	Seminar on “ <b>NEP 2020: Sensitization and Orientation</b> ” organized by Students’ Cell, Lady Keane College	Students	Faculty
June 10, 2024	Mentors (SPOCs) of Affiliated Colleges		
July 4, 2024	St Francis College Nongstoin, Nongstoin (Online)		Faculty
July 6, 2024	Orientation Programme on “ <b>SWAYAM Online Courses</b> ” organized by St Mary’s College, Shillong		Faculty
July 12, 2024	Workshop on “ <b>SWAYAM</b> ” organized by Balawan College, Umsning	Students	Faculty
July 13, 2024	Orientation Programme on “ <b>SWAYAM Online Courses</b> ” organized by St Mary’s College, Shillong	Students	
July 19	Durama College, Tura (Online)		Faculty

### C. Publications:

- **Kharbuli, Q** and Chatterjee, K. (2001): Perspective in Cytology and Genetics, 10:763-765. **Title of the paper:** Genetic expression of Glucose 6-phosphate dehydrogenase in *Channa* species
- **Kharbuli, Q** and Chatterjee, K. (2007): Fish and Fisheries in North East India Recent Advances and Rebuilding, 239-248. ISBN 81-902028-5-5. **Title of the paper:** Genetic Variation detectable by Electrophoretic Separation of enzyme variants in three species of the Genus *Channa*.
- **Kharbuli, Q** and Rynjah, B. (2016): Reasserting Basic Sciences, 213-222. ISBN 9789383252-79-4. **Title of the paper:** PowerPoint Presentations: College and University Teachers’ Proficiency and Competency in Teaching.
- Das K.B., **Kharbuli Q.** and Rynjah B. (2017): The NEHU Journal, Volume XV, No.2 July-December 2017, pp113-126. **Title of the paper:** Knowledge of ICT and Computer Proficiency in College and University Teachers: A survey
- **Kharbuli, Q** (2023): Empowerment of Tribal Women in India, Issues and Perspectives, 33-40. ISBN 978-93-94569-56-0. **Title of the paper:** An Exploratory Survey on Female Faculty of Higher Education of North-East India.
- **Kharbuli, Q** (2023): Meghalaya College Teachers’ Association, Golden Jubilee Souvenir, 36-38. In-Service Training of College Teachers: A Need

### D. Book(s) Edited :

- Verma, P. S. and Pandey, B.P., (2008): A Text Book of Biology for class XI, Meghalaya Board of School Education. Publisher S Chand and company, New Delhi
- Verma, P. S. and Pandey, B.P., (2008): A Text Book of Biology for class XII, Meghalaya

Board of School Education. Publisher S Chand and company, New Delhi

**E. Reviewer:**

- Referee for a paper in the “**Journal of Science and Environment Today**” IQAC, Synod College, Shillong
- Referee for a paper in the “**Keanean Journal of Science**”, Lady Keane College, Shillong
- Referee for a paper in the “**Spectrum: Science and Technology**”, Research and Consultancy Cell, St Anthony’s College, Shillong

**F. Papers presented: Seminar/Symposia/Conference:**

- **National Symposium** on Trends in Environmental Biology, held at North-Eastern Hill University Shillong, June 23-25, 1999 organized by the Department of Zoology, NEHU, Shillong. Title of the paper: Genetic expression of Glucose 6-phosphate dehydrogenase in *Channa* species.
- **XI<sup>th</sup> All India Congress** of Cytology and Genetics held at Kalyani University, October 29-31, 1999 organized by the Department of Zoology, Kalyani University. Title of the paper: Genetic expression of Glucose 6-phosphate dehydrogenase in *Channa* species.
- **National Seminar** on ‘Recent Advances and Rebuilding of Fish and Fisheries in North East India’ held at St. Anthony’s College, Shillong, August 22-23, 2007 organized by the Department of Pisciculture, St. Anthony’s College, Shillong. Title of the paper: Genetic Variation detectable by Electrophoretic Separation of enzyme variants in three species of the Genus *Channa*.
- **International Conference** on “ICT Culture in Education”, held at India International Centre, New Delhi, October 27-29, 2012, organized by Educational Technology and Management Academy, Gurgaon, Haryana, India. Title of the paper: Impact of Information Communication Technology, in the professional development amongst the College and University teachers.
- **International Seminar** on “Attracting Best Talents in Basic Sciences” held at Shillong College, Shillong, July 24-25, 2013, organized in collaboration with IQAC Shillong College. Title of the paper: PowerPoint Presentations: College and University Teachers’ Proficiency and Competency in teaching.
- **National Seminar** on “Education In The North East: Status and Perspective” held at NEHU, Shillong, September 3-4, 2013 organized by the Department of Education, NEHU in collaboration with ICSSR New Delhi and ICSSR NERC Shillong. Title of the paper: Exploring Trainee Teachers’ Use, Updating and Integration of Information Communication Technology in Teaching and Learning.
- **National Seminar** on “Empowerment of Tribal Women in India: Issues, Challenges and Perspective” held at National Law Institute University, Bhopal, Madhya Pradesh, March 7-8, 2020 organized by National Law Institute University, Bhopal and sponsored by National Commission for Women New Delhi. Title of the paper: Inclination towards Research: A cross-sectional study on female faculty of Higher Education belonging to Scheduled Tribes

of North-East India.

- **National Seminar** on “NEP 2020: The way forward” held at Synod College Shillong, November 17-18, 2022, organized by Department of Education, Synod College Shillong. Title of the paper: Motivated, Energized and Capable Faculty in Higher Education: Impact of Faculty Development Training Programmes through Human Resource Development Centres (HRDCs).
- **National Workshop** on “NEP 2020: Implementation and Interpretation at School Level” June 8 & 9, 2023, organized by Synod College, Shillong in collaboration with the Directorate of School Education and Literacy (DSEL), Government of Meghalaya. Title of the paper: Professional Development and Capacity Building for School Teachers.

**G. Key Resource Person: Seminar/Symposia/Workshop/Webinar:**

- **“International Webinar** on “Impact of Covid-19 on Higher Education-Challenges and Opportunities”, organized by IQAC, Pub Majuli College, in collaboration with Rangachahi College, Majuli, Assam, India, September, 10, 2020.
- **National Webinar** on “Role of Human Resource Development Centres (HRDCs) in adopting the new normal techniques to sustain Quality in Higher Education” organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, October 31, 2020.
- **One Day National Workshop** on “Preparation of MOOCs and Online Pedagogy” organized by IQAC, Rupahi College, Assam, June 3, 2021.
- **One Day International Workshop** on Open Educational Resources (OER) and Massive Open Online Courses (MOOC) for Reflective Learning, organized by Department of Philosophy, Moran College, Moranhat, Charaideo Dist, Assam, India, and State College of Teacher Education (SCTE), Kohima, Nagaland, India in Collaboration with School of Education, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, August 2, 2021.
- **One Day National Workshop** on “MOODLE”, organized by IQAC, Women’s College Tinsukia, Assam, India, March, 11, 2022
- **One Day National Webinar** on Education Policy: Implementation and Implications”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, June 8, 2022. Title - **“Mentoring: Mentor – Mentee pairing the Process”**
- **One Day National Webinar** on Education Policy: Motivated, Energized, And Capable Faculty”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, July 20, 2022. Title - **“Motivated, Energized and Capable Faculty: Role of HRDCs”.**
- **One Day National Webinar** on Education Policy: Assessment and Evaluation”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, December 9, 2022. Title - **“Pedagogy, Evaluation and Assessment: Continuous and Comprehensive Evaluation”.**

- **One Day National Webinar** on “**Academic Bank of Credits**”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, May 25, 2023. Title - **NEP 2020: Academic Bank of Credit for Online Courses through SWAYAM**
- **One Day National Webinar** on “**SWAYAM and MOOCs**”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, June 23, 2023. Title - “**Optimizing the Teaching and Learning Resources through SWAYAM and MOOCs a Digital Initiative of Ministry of Education, Government of India.**”
- **One Day National Webinar** on “**Common Universities Entrance Test (CUET)**”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, August 16, 2023. Title - “**The role of Teachers in Handholding the Students in Preparation for the Common University Entrance Test (CUET).**”
- **National Workshop** on “**The use and Integration of SWAYAM and Credit Transfer in the context of NEP 2020**” organized by IQAC Shillong College 22<sup>nd</sup> -23<sup>rd</sup> July, 2024. Title – “**Digital Initiatives: Opportunities for Enhancing Students Learning**”, 22<sup>nd</sup> July, 2024

#### **H. Resource Person:**

- Practical Demonstration for “Young Scientists’ Workshop on identification and diagnosis of parasites of Biomedical and Zoonotic Importance” held at the **Department of Zoology, NEHU, Shillong** from June 23 – July 7, 2000.
- Academic Performance Index at **Lady Keane College, Shillong**, on July 9, 2012. Faculty Development Programme and Research Projects (Major and Minor) at **St. Mary’s College for Teacher Education, Shillong**, on March 5, 2013.
- API, UGC Regulation, 2010, for the “Faculty Development Programme” organized by IQAC, **Sankardev College, Shillong** on May 30, 2014.
- Purpose and need for Seminar/Conference/Workshop for a one week “Workshop for Faculty Development” organized by IQAC **Lady Keane College, Shillong** on December 5, 2016.
- Research Methodology and Research Proposal, and Career Advance Scheme for a One day “Workshop on the theme Achieving Excellence in Higher Education: Strategies and Efficacy” organized by IQAC **St. Edmund’s College, Shillong** on April 23, 2018
- Gender and Age Sensitization for “Tour Guide Training Programme” organized by **Indian Institute of Tourism and Travel Management, Shillong** on December 6, 2018.
- Five-Day Online Faculty Development Programme on “Online Pedagogical Tools and Techniques and Blended Learning”, organized by Internal Quality Assurance Cell (IQAC), **St. Anthony’s College, Shillong**, September 8-12, 2020.
- Three-Day Online Regional Workshop on “Online Education: A new normal Approach to teaching, organized by Internal Quality Assurance Cell (IQAC), **Shillong Commerce College, Shillong**, December 9-11, 2020.
- Online interactive session on “Career in Zoology” for students of Zoology organized by **Lady Keane College, Shillong**, June 17, 2021.
- 21-Day International Workshop cum FDP on “Innovative Techniques for Professional

Development of Teachers in Higher Education” organized by the **Department of Education (NEHU), in collaboration with Department of Philosophy, Moran College, Assam.**

Sponsored by ICSSR-NERC. Topic – Professional Development of Teachers of Higher Education: Issues and Challenges, September 17, 2021.

- Orientation for newly recruited faculty, organized by **IQAC, Synod College, Shillong.** Topic – “Career advancement for teachers of HEI”, March 30, 2022.
- Three-day Seminar and Workshop on “Research Paper Writing for undergraduates (Humanities)”, organized by the **Department of English, St. Anthony’s College, Shillong.** Topic – “How to structure a Paper”, 19<sup>th</sup> – 21<sup>st</sup> April, 2022.
- District Seminar on “Faculty Development”, organized by the Academic activities committee, **Thomas Jones Synod College, Jowai.** Topic – “Teaching and Learning during Covid-19: Effectiveness and Challenges”, June 24, 2022.
- Faculty development Programme, organized by **IQAC, Sankardev College, Shillong.** Topic – Academic and institutional performances, research and publication and the National Education Policy, 2020, July 8, 2022.
- “One day national workshop on development of MOOCs” organized by **MOOCs Technical committee, North-Eastern Hill University, Shillong.** Topic – “Development of MOOC courses through SWYAM” September 1, 2022.
- Outcome Based Education Workshop for faculty organized **by IQAC, Martin Luther Christian University Shillong.** Topic – Introduction to Outcome Based Education and Formulating/Identifying Programme Outcomes (POs), Programme Specific Outcomes (PSOs), Course Outcomes (Cos), September 16, 2022.
- Awareness Programme on Professional Ethics and Research Projects organized by **Research Development Committee & Seminar Committee, Kiang Nangbah Government College, Jowai.** Topic – Research Projects (Major & Minor), October 7, 2022.
- Faculty Development Programme with special emphasis on NEP 2020 organized by **Ri-Bhoi College, Nongpoh.** Topic - Topic – Blended Mode of Teaching, Government of India Digital Initiatives. Open Educational Resources and Creative Commons Licence. MOODLE Environment. February 15,2023.
- Workshop on e-Content Development for the faculty organized by **IQAC, Martin Luther Christian University Shillong.** Topic – Preparation of Proposal for E-Content Development (SWAYAM MOOCs). Swayam Central: Awareness for professional development. Open Educational Resources and Creative Commons Licence, February 17,2023.
- Two –Day Workshop on “Development of e-Content” for faculty of Sciences, Professional Courses and Arts, organized by **IQAC, Lady Keane College, Shillong.** Topic(s) – “Development of e-Content and Awareness on SWAYAM MOOCs” 28<sup>th</sup> and 30<sup>th</sup> March, 2023.
- Awareness Programme for CUET (PG) for VI<sup>th</sup> semester students organized by **Lady Keane Alumni Association.** Topic – Common University Entrance Test: A Guide.18<sup>th</sup> April, 2023.

- Workshop on “Implementation, Development and Promotion of MOOCs”, organized by **MOOCs Technical Committee, NEHU**. Topic - “SWAYAM CENTRAL: A Guide to Online courses for Students and Faculty of Higher Education. 20<sup>th</sup> April, 2023
- 5 Day Online National Level Faculty Development Programme On “Digital Tools in Teaching Learning Process & Research” organized by **IQAC, Maheshtala College, Kolkata in collaboration with IQAC, Uluberia College, Howrah**. Topic(s) - “E-content Development for Blended Teaching and Learning” and “Setting the Standards of HEI through Innovative Pedagogical, Evaluation and Assessment Methods or Approaches”. 19<sup>th</sup> and 21<sup>st</sup> June, 2023.
- Special Program on Research organized by **Research Committee of Sankardev College, Shillong**. Topic – “Research as a Pedagogical Tool”. 5<sup>th</sup> July, 2023.
- One Day Workshop on Research Methodology organized by **Research and Development Committee in collaboration with IQAC, St Mary’s College, Shillong**. Topic – “Research as a Pedagogical Tool”. 26<sup>th</sup> August, 2023.
- Faculty Development Programme on “Role of SWAYAM in Higher Education: Planning and Designing an Outcome Based Learning MOOCs” organized by **IQAC, St Edmund’s College, Shillong**. Topic(s) – “Role of SWAYAM in Higher Education” and “E-Content Development: Blended or Online Teaching and Learning” and “Research as a Pedagogical Tool”. 16<sup>th</sup> – 19<sup>th</sup> October, 2023.
- Workshop on National Education Policy (NEP) 2020: School Education, for Teachers of Laban Presbyterian Higher Secondary School, Shillong, organized by **Martin Luther Christian University, Shillong**. Topic – Learning Outcome. 20<sup>th</sup> October, 2023.

#### **I. Resource Person: (HRDCs/MMTTCs):**

- Third Faculty Induction Programme, organized by **UGC-Human Resource Development Centre, Gauhati University**. Topic-“Reaching the unreached through Digital Technology: Motivating the teachers to adopt, adapt and acclimatize”, February 15, 2021.
- Workshop on MOOCs, OER E-Content Dev & Online Pedagogy 15/02/2021 to 21/02/202, organized by **UGC-Human Resource Development Centre, Gauhati University**. Topic- “Reaching the unreached through Digital Technology: Motivating the teachers to adopt, adapt and acclimatize”, February 18, 2021.
- Refresher Course on Language, organized by **UGC-Human Resource Development Centre, Jai Narain Vyas University, Jodhpur**. Topic - “E-Content Development and MOODLE Environment, September 13, 2021.
- Refresher Course on E-Resources, ICT, OER and Online Education, organized by **UGC-Human Resource Development Centre, Gauhati University**. Topic - “E-content Development, Awareness on SWAYAM online courses and MOODLE environment”, March 8 and 14, 2022.
- RUSA 2.0 Approved STC on “Online Courses, E-Content Development, OER etc.,”

- (Physical mode) organized by **UGC-Human Resource Development Centre, Gauhati University**. Topic - Preparation of Proposal for E-Content Development (SWAYAM MOOCs, CEC). Swayam Central: Awareness for professional development. MOODLE Environment: Administrator, Activities and Resources, 10<sup>th</sup> February 2023.
- RUSA 2.0 Approved Refresher Course on Online Teaching Learning Courses, E-Content Development, OER etc.,” (online mode) organized by **UGC-Human Resource Development Centre, Gauhati University**. Topic – Concept of Measurement and Levels of Measurement in Quantitative Research, 6<sup>th</sup>, 23<sup>rd</sup> and 27<sup>th</sup> February, 2023.
  - RUSA 2.0 Approved Orientation Programme on “Research Methodology” (online mode) organized by **UGC-Human Resource Development Centre, Gauhati University**. Topic – Concept of Measurement and Levels of Measurement in Quantitative Research, 22<sup>nd</sup> February 2023.
  - RUSA 2.0 Approved Orientation Programme on “Research Methodology in Social Sciences and Humanities” (Physical mode) organized by **UGC-Human Resource Development Centre, Gauhati University**. Topic(s) – Research Process, Concept of Measurement and Levels of Measurement in Quantitative Research, and Measures of Association. 06<sup>th</sup> March, 2023.
  - UGC sponsored Faculty Induction Programme organized by **UGC-HRDC, Gauhati University**. Topic – Innovative Pedagogical, Assessment and Evaluation Approaches to E Content Development. 5<sup>th</sup> October, 2023.
  - 1-Week Online Workshop on “Ethics and Research Paper Writing in Scientific & Humanities Journals under Faculty Development Programme” (for Faculty Members & Research Scholars of HEIs), organized by **UGC-MMTTC-Gauhati University, Guwahati**. Topic – Importance of Data in Research Writing. 12<sup>th</sup> March, 2024.
  - Online Training Programme on “NEP Orientation & Sensitization” Id: MMC-015-2024-MAR-A-00701 for Assistant Professor/Associate Professor/Professor, organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh**, 05<sup>th</sup> – 15<sup>th</sup> March, 2024. Theme – Student Diversity and Inclusive Education. 14<sup>th</sup> March, 2024
  - Online Training Programme on “NEP Orientation & Sensitization” for Assistant Professor/Associate Professor/Professor, organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Banaras Hindu University, Varanasi**, 13<sup>th</sup> – 22<sup>nd</sup> May, 2024. Theme – Research and Development. 15<sup>th</sup> May, 2024
  - Online Training Programme on “NEP Orientation & Sensitization” for Assistant Professor/Associate Professor/Professor, organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Tezpur University**, Theme – Research and Development. 21<sup>st</sup> May, 2024
  - Online Training Programme on “NEP Orientation & Sensitization” Id: MMC-015-2024-JUN-A-01574 for Assistant Professor/Associate Professor/Professor, organized by **UGC-**

**Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh, 06<sup>th</sup> – 19<sup>th</sup> June, 2024.** Theme – Student Diversity and Inclusive Education. 6<sup>th</sup> June, 2024

- Online Training Programme on “NEP Orientation & Sensitization” for Assistant Professor/Associate Professor/Professor, organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Dr Babasaheb Ambedkar Marathwada University, Aurangabad.** Theme – Student Diversity and Inclusive Education. 18<sup>th</sup> June, 2024
- Online Training Programme on “NEP Orientation & Sensitization” for Assistant Professor/Associate Professor/Professor, organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Banaras Hindu University, Varanasi.** 18<sup>th</sup> – 27<sup>th</sup> June, 2024. Theme – Student Diversity and Inclusive Education. 25<sup>th</sup> June, 2024
- Online Training Programme on “NEP Orientation & Sensitization” for Assistant Professor/Associate Professor/Professor, organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Tezpur University,** Theme – Student Diversity and Inclusive Education. 5<sup>th</sup> July, 2024
- Online Training Programme on “NEP Orientation & Sensitization” for Assistant Professor/Associate Professor/Professor, organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Banaras Hindu University, Varanasi,** 15<sup>th</sup> – 25<sup>th</sup> July, 2024. Theme – Research and Development. 22<sup>nd</sup> July, 2024
- Online Training Programme on “NEP Orientation & Sensitization” for Assistant Professor/Associate Professor/Professor, organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Tezpur University,** Theme – Academic Leadership, Governance and Management. 6<sup>th</sup> August, 2024
- Online Training Programme on “NEP Orientation & Sensitization” for Assistant Professor/Associate Professor/Professor, organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Banaras Hindu University, Varanasi,** 20<sup>th</sup> – 29<sup>th</sup> August, 2024. Theme – Research and Development. 27<sup>th</sup> August, 2024

**J. Organized Seminar/Symposia/Conference/Webinar:**

- **National Seminar** on “Biodiversity: Herbal Medicine”, organized by IQAC Synod College, Shillong, September 20-21, 2007
- **Local Seminar on** “Biological Problems: Extinction of Biological Species in N.E. India”, organized by Department of Zoology, Synod College, Shillong, September 17 2009
- **National Conference** on Recent Advances in Nanoscience and Nanotechnology, organized by Department of Nanotechnology, NEHU, Shillong, September 8-9, 2016
- **National Seminar** on “Empowerment of Tribal Women in India: Issues, Challenges and Perspective”, organized by National Law Institute University, Bhopal and sponsored by National Commission for Women New Delhi, March 7-8, 2020
- **National Webinar** on “Role of Human Resource Development Centres (HRDCs) in adopting the new normal techniques to sustain Quality in Higher Education”, organized by

UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, October 31, 2020.

- **One Day National** Webinar on “Physical Fitness & Yoga A Way to Healthy Lifestyle”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, August 11, 2021
- **One Day National** Webinar on “NEP 2020: Opportunities & Challenges”, organized by UGC-Human Resource Development Centre in collaboration with the Department of Education, North-Eastern Hill University, October 8, 2021
- **One Day National** Webinar on “NEP 2020: “Research Innovation and Rankings In Higher Education Institutions”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, May 18, 2022.
- **One Day National** Webinar on “NEP 2020: Technology Enabled Teaching & Learning Process”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, May 27, 2022.
- **One Day National** Webinar on “Education Policy: Implementation and Implications”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, June 8, 2022.
- **One Day National** Webinar on “NEP 2020: Promotion of Indian Knowledge Systems”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, August 8, 2022.
- **One Day National** Webinar on “NEP 2020: Assessment and Evaluation”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, December 9, 2022.
- **International Conference** on “Biodiversity and Conservation (ICBC)”, organized by Department of Zoology and Fishery Science, St. Anthony’s College, Shillong in collaboration with the Bio Resources Development Centre (BRDC), Govt. of Meghalaya, Zoological Survey of India (ZSI), Govt. of India, Meghalaya Biodiversity Board (MBB), Govt. of Meghalaya and Fisheries Dept., Govt. of Meghalaya, December 14<sup>th</sup> and 15<sup>th</sup>, 2022
- **One-Day National** Webinar “NEP 2020: Academic Bank of Credits”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, May 25, 2023.
- **One-Day National** Webinar “NEP 2020: SWAYAM and MOOCs”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, June 23, 2023.
- **One-Day National** Webinar “Common University Entrance Test (CUET)”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, August 16, 2023.
- **One-Day National** Webinar “NEP 2020: Establishment of Research and Development Cells in HEIs”, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, November 17, 2023.
- **One-Day National** Webinar “NEP 2020: Training/Orientation of Faculty on the Indian

Knowledge System, organized by UGC-Human Resource Development Centre, North-Eastern Hill University, February 9, 2023.

**K. Attended: Seminar/Symposia/Conference/Webinar:**

- The National Academy of Sciences, India (72<sup>nd</sup> Annual Session), held at the North Eastern Hill University, Shillong, October 25-27, 2002.
- Seminar on “Coalition Politics in India: The Crisis of Governability” held at Synod College, Shillong, November 26-27, 2004.
- Seminar on “Human Rights: Experiences and Initiatives” held at Synod College, Shillong, December 10, 2005.
- Regional Seminar on “Biodiversity-Herbal Medicine” held at Synod College, Shillong, August 3, 2006.
- National Seminar on Look East Policy: Impact on the North East India held at Synod College, Shillong, October 19-20, 2006.
- National Seminar on Christianity: National Integration held at Synod College, Shillong, October 14-15, 2008.
- The 96<sup>th</sup> Indian Science Congress, held at the North Eastern Hill University, Shillong, January 3-7, 2009.
- Local Seminar on Biological Problems: Extinction of Biological Species in N.E. India, held at Synod College, Shillong, September 17 2009
- National Seminar on “Information Communication Technology in Education” organized by Department of Education, NEHU, Shillong, September 13<sup>th</sup> -15<sup>th</sup>, 2011
- Sensitization Workshop on “Technological Empowerment of Women through SoRF Scheme of DST”, organized by National Academy of Sciences India (NASI), NER Local Chapter held at North-Eastern Hill University, Shillong, June 30, 2014.
- National Webinar on organized by National Academy of Sciences India (NASI), NER Local Chapter held at North-Eastern Hill University, Shillong, December 15, 2020
- Webinar TISS MUMBAI
- National Webinar on “Financial Literacy Program” organized by North Eastern Hill University Shillong, April 26, 2021

**L. Training course attended:**

- Training course on “Mitochondrial and Genomic DNA” at National Bureau of Fish Genetic Resources, Lucknow, India during January 1997.
- Training course on “Basic Computer Concepts and Applications” organized by Bio-informatics Centre, NEHU, Shillong from June 12-14, 2000.
- Training course on “Inferring Biological Relationships: A Bioinformatics Approach” conducted by Bio-informatics Centre, NEHU, Shillong from November 27-December 1, 2007.
- Training course on “Recent Advances in Molecular Markers and Their Applications” conducted by National Bureau of Fish Genetic Resources, Lucknow, India from January 12-

23, 2009.

- Hands On Training “Workshop on Teaching with Technology using Moodle MOOC”, conducted by National University of Educational Planning and Administration, New Delhi, India from July 1-3, 2015
- Hands On Training Workshop on “Synthesis and Characterization of Nanomaterials for Biotechnological Applications” conducted by School of Technology, North-Eastern Hill University, Shillong, from March 28-April 1, 2016
- “Nurturing Future Leadership Program” conducted by Indian Institute of Technology Delhi, from 18<sup>th</sup> – 22<sup>nd</sup>, 2024.

**M. Orientation Programme/Refresher Courses/Short Term Courses attended:**

- UGC sponsored Orientation Course Academic Staff College, Jawaharlal Nehru University, New Delhi from November 13- December 8, 2000.
- UGC sponsored Refresher Course in the Dept. of Zoology North Eastern Hill University, Shillong from November 19- December 10, 2001.
- UGC sponsored Refresher Course Academic Staff College, Jawaharlal Nehru University, New Delhi from December 29- January 23, 2004.
- UGC sponsored Refresher Course Academic Staff College, North-Eastern Hill University, Shillong from November 6- 28, 2008.
- UGC sponsored Professional Development Program at UGC-Academic Staff College University of Hyderabad, Hyderabad from July 27-August 01, 2009.
- UGC sponsored Short Term Course in Research Methodology at UGC-Academic Staff College NEHU from September 23-28, 2013.
- UGC sponsored Short Term Course in Life Sciences (with special reference to Nano Science) at UGC-Human Resource Development Centre, NEHU from August 1-6, 2016.

**N. Skills on various biological research techniques:**

- Chromosome preparation.
- Polyacrylamide Gel Electrophoresis (PAGE)
- Techniques for studying Isozymes/Allozyme
- Mitochondrial and Genomic DNA Isolation
- Agarose Gel Electrophoresis
- PCR technique
- RAPD technique
- Microsatellite Technique
- DNA sequencing
- Bioinformatics
- Nanomaterials: Synthesis and Characterization

**O. Member Academic Bodies:**

- Life member for the Indian Society Training and Development, New Delhi.

- NEHU Representative: Governing Body of **Balawan College**, Umsning, Ri-bhoi District Meghalaya (2019-2022)
- External expert “XIV Academic Council”, **Martin Luther Christian University**, Shillong.