

Curriculum Vitae

Dr Pratima Khandelwal, PhD

Lead Facilitator- NEP 2020 based Pedagogy & Empanelled Soft Skills

Trainer, NPTEL, IIT Madras

Founder, FlyHigh (Educational Excellence Services), Bengaluru-43



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<https://www.webofscience.com/wos/author/record/AAQ-7704-2020>

<https://www.researchgate.net/profile/Pratima-Khandelwal-2>

<https://scholar.google.com/citations?hl=en&user=n7l8vXYAAAAJ>

Vision for next five years:

- To build competencies in teaching and learning communities at academia by holistically upskilling them in *technology led empathetic pedagogical techniques* in alignment with Outcome Based Education (OBE) and NEP 2020
- To carve a niche in the area of Preventive healthcare foods and Food safety measures

Key skills and Attributes:

Technical skills: Food Technology & Food Biotechnology (Teaching and Research), Pedagogy, and Andragogy for higher education

ICT based skills: Digitech and AI based tools for teaching and learning

Soft Skills: Emotional intelligence: Mentoring and Leadership

Key attributes: Training, Green, Innovativeness, Inclusive and Spiritual approach

Total work experience: ~23 Years

- **Facilitating, Training, Upskilling and Mentoring (Pedagogical and Professional skill development):** ~ 5.5 years (Since July 2017 till date)
- **Teaching: Total 17.5 Years** {BE Biotechnology - 6.5 years; M.Sc Biotechnology: 11 years}; Core subjects/courses- Food (Bio)Technology, Environmental Sciences, Food Science, Food Engineering (March 2000 till June 2017)
- **Leadership:** ~ 15.5 years, as Head of Teaching Learning Centre, Head of the Departments, Controller of Examinations (Aug 2004 till July 2020)
- **Core domain Research:** ~20 years, concurrently earned, as PI, Co-PI, Supervisor/Guide for PhD, MSc, MPhil and BE Biotechnology degree; in core area of Food (Bio)technology
- **Additionally, Conceptual and Survey based research work:** 4.5 years, on enhancing teaching-learning outcomes and pedagogical needs at higher educational institutions (Sinc July 2018 till date)

Professional and Employment Details:

Current work portfolio: Since August 2020: Founder, 'FlyHigh' (Educational Excellence Services, Bengaluru), an MSME unit (UDYAM-KR-03-0002823).

Core Area: Enhancing teaching-learning effectiveness, pan India.

Conducted 600+ Virtual and face-to-face training sessions for academic leaders, teachers, students and scholars across the nation

Training formats: FDPs, FEPs, SDPS, LDPs, Workshops, Webinars, 1-1 training sessions

Key roles being played:

- Lead Facilitator- NEP aligned capacity building initiatives
- Resource Person in Karnataka State Higher Education Academy (KSHEA), Dharwad and Karnataka Science and Technology Academy (KSTA), Bengaluru for upskilling government institutions teachers
- Resource person under AICTE ATAL FDPs (since Aug 2020 till date)
- Special Invitee in Board of Studies (BT) under VTU Belagavi 2021-22 and Member BOS- Faculty of Life and Allied Health Sciences
- Member of Selection Panel (Faculty recruitment) and Member BOS (BT), Ramaiah Uni of Applied Sciences, Bengaluru (2022-2023)
- Empanelled Trainer (Soft Skills) at NPTEL, IIT Madras (May 2020 till date)
- Lead Trainer and Facilitator at ZIETs under KVS, New Delhi (since April 2021)
- Mentor under Atal Incubation Centre (JIT, Bengaluru), BRTC Project (KIIT Incubator, Bhubaneswar); wef March 2022
- Research guide: VTU, Belagavi and IGNOU, New Delhi

Previous assignments and designation held:

- **July 2018-July 2020: Professor and Head, Teaching-Learning Centre** (a novel initiative), Global Academy of Technology (Autonomous institution under VTU, Belagavi, accredited by NAAC at 'A' grade and its 5 departments accredited by NBA), Bengaluru
- **Jan 2011-June 2017:** New Horizon College of Engineering, an autonomous institution under VTU, Belagavi (Accredited by NAAC and NBA), Bengaluru.

Portfolios held:

- **Professor & Head, Dept of Biotechnology** (NBA accredited dept.) Jan 2011 – Feb 2014 and Aug 2016- June 17
- **Controller of Examinations** (June 2015- July 16)
- **Professor & Head, Dept. of Basic Sciences and Humanities**, Feb 2014 – July 2016
- **Aug 2004 -Dec 2010:** Brindavan College (Accredited by NAAC at 'A' level), Bengaluru, under Bengaluru University, as **Assoc Prof and Head, Dept of Biotechnology**
- **Feb to July 2004:** Dayananda Sagar Institutions, Bengaluru as **Asst Prof., Dept of Biotechnology and Env Sciences**
- **March 2000- Jan 2004:** Thapar Institute of Engineering and Technology, Patiala, Punjab, as **Lecturer, Dept of Biotech and Environmental Sciences**

Academic credentials:

From **GB Pant University of Agriculture and Technology, Pantnagar, Uttarakhand** (First agricultural university of India); University ID 20860

PhD (Major: Food Technology, Minor: Process & Food Engineering), July 1998- March 2002, Qualified ICAR-SRF

M.Sc Food Technology, July 1998, Batch Topper (Awarded ICAR-JRF)

B.Sc H.Sc, June 1996, University Gold Medallist

ICAR-SRF and NET Qualified, 1998- 1999

Professional certifications:

Earned 16 credits of MOOCs from SWAYAM- NPTEL IIT Madras:

2019-20, 2018-19 and 2017-18 under Multidisciplinary and Humanities domains, Pedagogy, Teaching and Learning in Engineering, Accreditation & OBE, and Soft Skills.

Link for validation: <https://nptel.ac.in/noc/>.

Achievements and distinctions:

- Invited by Food Chem & Tech Lab, AFED, **IIT Kharagpur** for addressing students and faculty members on Skill sets and Agility for the Food tech sector in post pandemic times (July 2022)
- Invited by **Millennium University, Republic of Malawi** as a keynote speaker for Open, Distance and e-learning Resources (July 2022)
- **Invited by AICTE, New Delhi** for addressing teachers and students at national level on pedagogy (May 2021) <https://www.youtube.com/watch?v=F7LZZGUxc2M&t=355s>
- Invited as resource person in **Aatmanirbhar Bharat** event under PM's Formalization of Medium and Small Enterprises Scheme, MoFPI at NDRI Karnal, (Jan 2021) and at OUAT, Bhubaneswar (March 2021), Rajiv Gandhi Inst of Vet Res. Pondicherry (March 2022)
- Invited by **ZIETs** of Kendriya Vidyalaya Sangathan at **Mumbai, Chandigarh, Mysore** for upskilling Training Associates, PGTs, TGTs (Jan-Feb 2022, Oct 2021 & Aug 2021)
- Training students from **all over India** on Professional/Soft Skills under **NPTEL, IIT Madras**, delivered a live streamed session on Time Management under NPTEL (April 2020) Session, earned a viewership of over 52+K <https://www.youtube.com/watch?v=ch1yX9guGZ8>
- Earned **Best Paper Awards on Pedagogy and Learning Outcomes:** International Webinar (Ansar Women's College and Kerala University, Sept 2021) and ISTE- TN Section Annual Polytechnic Faculty Convention at TPT, Salem, Feb 2021)
- Earned many **Appreciation Certificates** for meaningful engagement with participants of FDPs from ATAL- AICTE and Program Coordinators across the states in India

- Earned '**Food Warrior**' and '**Vocational Service**' Awards respectively from Rotary Bangalore Metro and Ulsoor (Sept 2020)
- Designated as **Certified Digital Teacher** by ICT Academy (July 2020)
- Invited by **IIT Bhilai**, and **IDP-NAHEP** (Under ICAR, GOI at NDRI, Karnal, GBPUA&T, Pantnagar, CoHF, Hamirpur) for online training of teachers and/or students (May-Dec 2020, May 2021, April 2022)
- Invited by **Infosys, Bengaluru** for sessions on Food- based wellness and Women's wellness week (Aug and Dec 2020, May 2021, July 2021)
- Designated as **NPTEL STAR**: Recognized as NPTEL Motivated Learner -2019 <https://nptel.ac.in/nptelstars/motivatedlearners>
- Earned **Elite Gold, Silver, Topper Certificates** from NPTEL, IIT Madras (2018, 2019)
- Earned **Appreciation letters** from Heads of the Institutions for conducting transforming training sessions (In Physical and virtual modes, since 2018 till date)
- Developed **novel and consumer friendly kits** for detection of - foodborne pathogens and cholesterol in food samples, much acclaimed in both print and electronic media 2015-16, 2016-17 and 2019-20 (Under the theme: Science and Technology for Society)
- **Featured** in 'Life Sciences Avenues & Opportunities' by **Vivify Media**, New Delhi, 2016
- Delivered **Keynote address** at Graduation Ceremony (August 2015) and Co-Panellist in **Biocon Academy Alumni Meet** (March 2017)
- Contributed towards **IP as inventor of a patent** to institution (filed in 2002, granted in 2008, at TIET, Patiala and coinventor of 2 patents filed in 2017 by NHCE, Bengaluru)
- Chosen as **Resource person for video lectures** of VTU EDUSAT Program (10BT74, Food Biotechnology, Sept 2013)
- Received '**Best Department Award**' (in capacity of HoD) from Ambassadors/High Commissioners for 2008-09, 2007-08, 2006-07 on College Graduation Day
- **Selected** as Asst. Prof. at G B Pant University of Agriculture & Technology, May 2003 and qualified ICAR ASRB Exam and ICAR NET (December 1998)
- Recipient of **Vice-Chancellor's Gold Medal** at GB Pant University of Agriculture and Technology, Pantnagar, Uttarakhand (17th Convocation, 1997)

Research and Publications Summary: (Details on web, links as given on page 1)

Total publications: 48, Citations: 332, h & i10 indices: 10 each

- Book chapters authored/co-authored: Published- 5 (Chandos Publishing, Elsevier, 2022, Elsevier Academic Press, USA, 2020; Apple Academic Press, USA 2019; Taylor and Francis -CRC Press USA 2017 and Narosa Publ. House, New Delhi, 2008).

- Patents- **1** (Institutional, granted in 2008), 1 (individual, under examination, filed in 2019) and 2 **filed** (institutional, 2017 as co-inventor)
- Discoveries: **3 + 1**, strains of fungi & algae, respectively; during 2013-16, Submissions in NCBI, USA: 17, <https://www.ncbi.nlm.nih.gov/nucore/?term=Upendra+and+pratima>
- Conference presentations (as Invited speaker or Delegate): **16**
- Conference Rapporteur/Moderator/Vice -Chairman of Technical Sessions: **8**
- Panellist under contemporary themes of discussion: **3**
- Technical events organized: Conferences - **1** (as Organizing Secretary), Symposia and workshops: **4** (as Coordinator/Convener).

Research guidance:

- PhD (VTU, Belagavi; Biotechnology, under Applied Sciences): 1 scholar (Completed, 2017), 2 scholars - Ongoing (since 2020)
- MPhil (Periyar University, Periyar; Microbiology/Biotechnology); 2 scholars (2006-2009)
- MSc Biotechnology (TIET Patiala, 6, during 2001- 2004)
- BE Biotechnology (at NHCE, under VTU, Belagavi; 2011-2017, no. of students: 32)

Research projects:

Latest: In collaboration with KwaZulu-Natal University, Durban, South Africa: on pedagogical work at HEIs under disruption caused by Covid-19 (May 2020 – July 2022)

Previously completed external funded research projects: **3** (TIE scheme of DST- 2010, AICTE-2001-2004, TIFAC: 2000- 2003); Minor Research/Students' Projects: **6** completed (KSCST, KSBDB, during 2012- 2016), on Food Technology, Env Sciences and Biotechnology

Pedagogy based events organized/Invited as Key resource person (in-person mode)

FDPs: **30+** (Face-to face, July 2018 till March 2020, resumed wef Dec 2021)

Invited talks delivered: **20+**, Keynote Address: **1**, **Panellist: 4**

Online training imparted during pandemic times (wef April 2020 till date):

India: Invited by 120+ Institutions/Departments for virtual training sessions in many states of India:

Karnataka, Gujarat, Uttarakhand, Maharashtra, Tamil Nadu, Haryana, Uttar Pradesh, Telangana, Chhattisgarh, Odisha, Kerala, West Bengal, Madhya Pradesh, Andhra Pradesh, Rajasthan, Himanchal Pradesh (since June 2020 till date)

Beyond national borders:

Invited by IMC, Nigeria (April 2022), Wayamba University of Sri Lanka and IFTSL, Wayamba, Sri Lanka (May-June 2020), Knowledge Beez (UK) for audience from Malaysia and Bangladesh (Aug 2021), Decimal College, Birgunj, Nepal (May 2020)

Contribution for NAAC/NBA Accreditations:

Contributed in internal audit works related to NBA accreditation at Global Academy of Technology (Jan-March 2019) for 5 departments. Successfully led entire team for NBA accreditation of Dept of Biotechnology, NHCE (2016-17).

Role in industry-institute interface

Developed linkages with Biocon Academy, Sapientury, Bionivid Technologies, Credora Life Sciences and Aristogene Life Sciences, Academia365 (*all indicated are based out of Bengaluru*)

Consultancy rendered:

Sapientury, Bengaluru (an edtech Startup) on NEP 2020 (Jan-June 2022), Pedagogical training for faculty members at Global Institute of Management Sciences, Bengaluru (Feb 2019), and Blog writing for Unique Biotech Ltd., Hyderabad (2015-16)

Key training sessions (pedagogical/students' training-based events) available on YouTube:

<https://www.youtube.com/watch?v=2JCRGLYAAlkA> (Biotecnika, Bengaluru)
<https://www.youtube.com/watch?v=mWrh9ZPDYTs> (SDNV College, Chennai)
<https://www.youtube.com/watch?v=1aZ3RJTgELE> (FoodTechSimplified, Noida)

Cumulative viewership: 72K plus

Press Conference based media coverage for research-oriented works:

Live telecast in Kannada News TV channels, and in print media for novel consumer friendly cholesterol detection kit for processed foods (2015), available on YouTube:

<https://www.youtube.com/watch?v=nWH8XsfeRpo>
<https://www.youtube.com/watch?v=nWH8XsfeRpo>
<https://www.facebook.com/people/Ifstsl-Colombo/100008518329512>

Editorial inputs:

- Executive Editor of International Journal of Fermented Foods (*under SASNET-FF, published by New Delhi Publishers, since 2010 till date*)
- Editorial Board Member: Egyptian Journal of Food Science (*since 2018 till date*)
- Reviewer for journals published by Wiley, Elsevier, ABB in Pedagogy, Biotechnology and Food/Dairy Science) domains (*ongoing*)

Countries visited:

Egypt (2017), Maldives (2010), Bhutan and Uganda (2010), Indonesia (2009), Mauritius (2008)
Purpose: Academic interventions (attended and presented in conferences/institutional events)

Professional membership:

Swedish South Asian Network of Fermented Foods (SASNET-FF) as Founder member (since 2007), Headquartered at AAU, Anand, Gujarat, India

Personal information:

Date of Birth: June 30, 1971

Marital Status: Married, Husband- Chartered Civil Engg, No. of children: 1, daughter

References:

1. **Dr Poorna Shankar**, Professor and Dean R & D, Indira College of Engineering and Management, Pune
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2. **Dr V S Anusuya Devi**, Professor & Head, Dept. of Chemistry, NHCE, Bengaluru
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October 2022

Place: Bengaluru

Dr Pratima Khandelwal