Curriculum Vitae

Name: Dr. Swapnil Ganesh Jaiswal

Address: RH02, Gokuldham Society,

Near Ujwalatai Pawar School, Renuka Mata Kaman, Beed Bypass Chhatrapati Sambhajinagar- 431010

E-mail: swapnil.jaiswal@mit.asia

Mobile: +91-8587035936 **Date of Birth:** 21/07/1987



Academic Credentials

Degree	Specialization	Institution	University	Year	%	Class
PhD	Food Process	IIT	IIT	2016	-	-
	Engineering	Delhi	Delhi			
M. Tech	Chemical Technology	LIT	RTMNU	2011	67.70	First
	(Oil Technology)	Nagpur	Nagpur			
B. Tech	Food Science	VDCFT	Dr. PDKV	2009	83.40	First
		Amravati	Akola			

NET/SET

Qualified Maharashtra State Eligibility Test (M-SET) Examination-2024 in the stream of Home Science

M. Tech. Project: Preparation and analysis of some eco-friendly industrial products from vegetable oils.

Ph. D. Research: Studies on natural antioxidants for edible oil preservation.

Key Research Areas:

Advanced extraction techniques
Natural antioxidants
Physicochemical properties of food
Analysis of oils and fats
Shelf-life study of food

Experience

Sr.	Organization	Post	From to	No. of
No.				Years
1	MIT Aurangabad	Assistant Professor	October, 2020 to till	04 Y 06 M
	•		date	
2	University of	Visiting Post-Doctoral	September 2018 to	01 Y
	Saskatchewan, Canada	Student	August 2019	
3	IIT Delhi	Post-Doctoral Research	May 2017 to	01 Y 04 M
		Associate	August 2018	

Membership of Professional Bodies

Life Member

- Oil Technologists Association of India (L-139)
- The Indian Science Congress Association (L27550)
- Indian Society of Technical Education (LM115822)
- Association of Food Scientists Association of India (AFST/LM/4-2018/DEL/1932)
- The Institute of Engineers M-1798515

Computer/Software Proficiency

- MS office (Excel, Word, Power point)
- SPSS (Statistical Analysis)

Portfolio handled

- 1. IIC Convener (Institute Level)
- 2. MIT Newsletter Committee Member (Institute Level)
- 3. Department Exam Coordinator (PG Level)
- 4. NAAC Committee Member (Institute Level)
- 5. Department PG Admission Coordinator
- 6. Department NAAC/NBA Coordinator
- 7. PG Students Guide/Mentor

Courses Taught

Food Plant Equipment, Innovation and Entrepreneurship, Seed Processing Technology, Advances in Dairy Processing, Advances in Analytical Techniques, International Food Legislation and Standards, Microbiology and Chemistry of Food, Advances in Food Packaging Technology, Advances in Food Processing Technology, Food Quality Control, Food Microbiology and Biochemistry, Food Handling and Packaging, Utilization of Food Industry Waste, Food from Animal Sources, Food Analysis Lab., Analytical Techniques Lab., Food Microbiology and Enzymology Lab., Seminar-I/II, Dissertation Part –I/II

Syllabus Design

PG Students Guided

03

MSBTE Syllabus Design for following subjects

Ms. Ashwini Gaikwad

Program	Subject/year	Post
	Agriculture Process Engineering (Second Year, Third Semester) 2022	
Diploma in Agricultural Engineering	Post-harvest Technology (Second Year, Fourth Semester) 2022	Subject Expert
	Seed Process Engineering	
	(Third Year, Fifth Semester) 2024	

Sr. No.	Name of student	Research Title	Status
01	Ms. Ankita Sarkate	Enhancing Nutritional Value of gummies	Completed
		using Moringa & corn Silk extracts	

02	Ms. Riya Shahare	Quality evaluation of the preparation of Completed
		sesame spread with the incorporation of
		chicory roots and chia seeds

		product enrich with potato peel & apple peel
04	Ms Shradha Patil	Development of gluten free low alcoholic Completed

		beverages	from	buckwheat	and	foxtail	
		millet					
05	Ms. Prachi Deshmukh	Developme	ent of	herbal tea	powder	from	Completed

llukli	Development of herbal lea powder from Completed	
	Cassia tora Linn. Seeds with value addition of	
	Withania coagulans and	

Preparation of jelly based value added

		Goodeserry
06	Ms. Mariya Khatoon	Preparation of novel food product based on Completed spirulina (<i>Arthrospira plantesis</i>)

Gooseberry

07	Mr. Akash Wagh	Lemon grass (Cymbopogaon citrates) oil:	Completed
		physicochemical analysis and value addition	

in poultry chicken for shelf life enhancement (2019-2021)

08 Mr. Rushikesh Jadhavar Formulation and development of weaning Completed food for infant (2019-2021)

Completed

Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference Attended Conferences attended:

Certificate Courses

- 2024 Hands on training in Life Cycle Assessment using Open LCA organized by Department of Biotechnology Ramiah Institute of Technology Bengaluru (25 January)
- One Week Faculty Development Program on Emerging Concepts in HVAC&R organized by ISHRAE and KIIT Bhubaneswar (8-15 July)
- 2024 One Month International Agriculture Certificate Course Cum Training Program on "Prime Minister and Ministry of Agriculture and Farmers Welfare Sponsored Agriculture Scheme and Indian Agriculture Vision-2050" (1-30 April)
- 2024 Online Short-Term Course on "NEP2020 Orientation and Sensitization" Program under MM- TTP organised by UGC-MMTTC, Gujarat University Ahmedabad
- 2022 Three Day Training Organized by A2Z EduLearning Hub (11-13 May)
 - 1. Handling Plagiarism and References Management using Mendeley Certificate number PLG25M38
- 2022 Two Day Virtual Training Program Organized by AFSTI (10-11 October)
 - 2. Statistical Methods in Food Processing
- One Week AICTE-ISTE Orientation Program on "Scope of IOT Applications in Automotive and Agricultural Industry (Phase-II)" organized by GCOEARA-ISTE, Awasari, Pune (22-27 March)
- One Week FDP on "Inculcating Universal Human Values in Technical Education" organized by AICTE New Delhi (14-18 June 2021)
- 2021 Three Day Workshop Organized by A2Z EduLearning Hub (5-7 November)
 - 3. Basic Statistical DataAnalysis Using SPSS

Certificate number - SPD084N

- 2020 Publons Academy Peer Reviewer Certificate Course (12 August)
 - 1. Certified Publons Academy Peer Reviewer
 - 2. Peer Reviewer for journal Food Research
- 2020 Two Days Training (27-28 January)

Internal auditing of FSSC 22000:2018 ver. 5.0

Certificate number – SFS/TRG/28012020/06

One Day Training (29 January)

FoSTaC Advanced Manufacturing - Level 2

Certificate number - AMA2031226331

- 2020 Online Training Certificate Course (Organized by Food Standard Agency UK)
 - 3. The Vacuum packing and modified atmospheric packing of food
 - 4. Food Allergy
- 2017 One Week Short Term Training Programme on "Research Methodology and its Applications" Government Polytechnic Amravati, Maharashtra (9-13 January)
- 2014 "Workshop on SEM & EDX" at SEM central facility Indian Institute of Technology Delhi (12-13 September)

Conferences

Overseas International Conferences

- 1. Jaiswal S. & Naik S.N. (2014). Extraction of natural antioxidant from spices to increase the shelf life of vegetable oils. 12th Euro. Fed. Lipid Congress, Montpellier (France). 232.
- 2. Jaiswal S.G. & Naik S.N. (2015). Supercritical CO2 extraction of natural antioxidants from ginger (*Zingiber officinale*). Biologically Active Compounds in Food. Lodz (Poland).
- 3. Naik S.N., Jaiswal S.G. & Rout P.K. (2016). Bio refinery of spices and aromatic plants. 14th ISBBB Conference. May 31 to June 3, University of Guelph (Canada).
- 4. Jaiswal S.G. & Naik S.N. (2017). Green extraction and stability study of antioxidant compounds from spice *Zingiber officinale* Rhizome: A contribution to sustainable food system. 4th ICOAF, August 24-25, Colombo (Sri Lanka).
- 5. Sahu S.N., Jaiswal S.G., Sahu J.K., Naik S.N., Baitharu I. & Kariali E. (2017). Value addition options for non-timber based forest products towards livelihood improvement in tribals: An Indian prospective. 4th ICOAF, August 24-25, Colombo (Sri Lanka).

Indian International Conferences

- 1. Jaiswal S. & Naik S.N. (2012). Value added products from Jamun (*Syzygium cumini*), International conference and Exhibition on Food Processing and Technology, Hyderabad (India). OMICS Publishing Group.
- Jaiswal S.G., Karadbhajne V.Y., Kulkarni A.S. & Naik S.N. (2013). Studies on novel ecofriendly products based on sorbitan esters from microwave induced reactors. 68th Annual Convention of OTAI & International Conference on Emerging Trends in Oleo chemicals and Lipids, IICT Hyderabad (India). 60.
- 3. Jaiswal S., Patel M. & Naik S.N. (2014). Enhancement of oxidative stability of vegetable oils by using spice extract. 69th Annual Convention & International Conference on Sustainable Technologies and Futuristic Trends: Oilseeds- Oils Processing and Surfactants, Agra (India). 62.
- 4. Patel M., Jaiswal S., Naik M. & Naik S.N. (2014). *Moringa oleifera*: A potential source of nutrition and edible oil. 69th Annual Convention & International Conference on Sustainable Technologies and Futuristic Trends: Oilseeds- Oils Processing and Surfactants, Agra (India). 62.

5. Jaiswal S.G., Saxena D.K. & Naik S.N. (2015). Development of green processes for extraction of natural antioxidants. 68th Annual Session of Indian Institute of Chemical Engineers 27-30 December. IIT Guwahati (India).

National conferences

- 1. Jaiswal S.G. & Naik S.N. (2013). Extraction of natural antioxidant from spices. OPEN HOUSE, IITD
- 2. Jaiswal S.G., Patel M. & Naik S.N. (2014). Rice bran oil distillate as a source of bio-actives for enhancement of oxidative stability of lipid based foods. Symposium on Recent Advances in Biotechnology for Food and Fuel (TERI), New Delhi (India).
- 3. Patel M., Jaiswal S.G. & Naik S.N. (2014). Exploring Non Timber Forest Products for Nutraceuticals. Symposium on Recent Advances in Biotechnology for Food and Fuel (TERI), New Delhi (India).
- 4. Naik M.K., Patel M., Jaiswal S.G., Mohanty S. & Naik S.N. (2015). Process optimization for castor based monoglyceroids preparation and purification by molecular distillation. Second Symposium on Advances in Polymers, IIT Guwahati.
- 5. Jaiswal S.G. & Naik S.N. (2015). Khadya Tel kisanrakshan me prakrutik antioxidants kibhumika. Hindi Workshop for Research Scholars, IIT Delhi.
- 6. Naik S.N., Prakash K. & Jaiswal S.G. (2016). Development of functional products from rice bran and RBO distillate. 1st Biomass to Bio value Summit organised by Center of Innovative and Applied Bioprocessing, Mohali, Punjab.

Invited talks delivered

- Delivered Expert Talk on "Opportunities in ginger processing sectors" in the training program
 of "Farmers produce company" organized by Deendayal Research Institute Krishi Vigyan
 Kendra, Digholamba, Ambejogai Beed. (March 2023, MIT Aurangabad)
- Delivered Expert Lecture in Short Term Training Programme on "Process Design and Intensification: Fundamentals to Applications". (December 2016, UDCT Jalgaon).

List of Research Publications

Papers in National/International Journal

- Kumar A., Bisht A., Maqsood S., Amjad S., Baghel S., Jaiswal S.G., Wei S. (2025). The role of micro-biome engineering in enhancing food safety and quality. *Biotechnology Notes*, 6, 67-78.
- Bisht A., Sahu S.C., Kumar A., Maqsood S., Barwant M.M., Jaiswal S.G. (2025). Recent advances in conventional and innovative extraction techniques for recovery of highadded value compounds for food additives and nutraceuticals. *Food Physics*.
- Kumar A., Singh U., Jaiswal S.G., Dave J., Wei S., Hailu G.G. (2024). Recent trends
 in the encapsulation of functional lipids: Comprehensive review. Sustainable Food
 Technology.
- Alagdeve V., Raval D.P., Koley S., Jaiswal S.G., Mukherjee D. (2024). Analysis of spectrum detection using fusion rule in cognitive radio network. *African Journal of Biological Sciences*, 6(12), 4794-4798.
- Khan J.A., Bornare D.T. Jaiswal S.G. (2024). Review on extraction of melanoidins from coffee waste and value addition in food. *Journal of Current Research in Food Science*, 5(1), 157-161.
- Abdul G., Bornare D.T., Jaiswal S.G. (2024). Review on development of idli pre-mix by incorporation of black cumin seeds (Kalonji Seeds). *Journal of Current Research in Food Science*, 5(1), 162-165.
- Shaikh M.A., Bornare D.T., Jaiswal S.G. (2024). Review on development of texture and nutrients of ice cream by utilization of eggshell or waste. *Journal of Current Research in Food Science*, 5(1), 103-107.
- Jadhavar R.S. Jaiswal S.G. & Bornare D.T. (2022). Development of weaning food premixes for infants based on ragi, green gram and rice. International Journal of Food and Nutritional Sciences, 11(6), 96-104. doi: 10.4103/ijfans_173_22.

- Khatoon M., Jaiswal S.G. and Bornare D.T. (2022). Spirulina platensis: An excellent protein source for food supplementation. International Journal of Scientific Research in Engineering and Management, 6(8), 1-15.
- Jaiswal S.G. & Naik S.N. (2021). Turmeric oil: Composition, extraction, potential health benefits and other useful applications. Avicenna Journal of Medical Biochemistry, 9(2), 93-106.doi: 10.34172/ajmb.2021.xx.
- Wagh A.M., Jaiswal S.G. & Bornare D.T. (2021). A review: Extraction of essential oil from lemon grass as a preservative for animal products. The Pharma Innovation Journal, 10(10), 1562-1567.
- Jadhavar R.S. Jaiswal S.G. & Bornare D.T. (2021). A review: Formulation and development of weaning food for infant. International Journal of Food Science and Nutrition, 6(4), 134-137.
- Jaiswal S.G. & Naik S.N. (2018). Contribution of agricultural produce spice Zingiber officinale to sustainable food system: green extraction and stability study of antioxidant compounds. Open Agriculture, 3, 326-338.
- Jaiswal S.G., Dole B.R., Satpathy S.K. & Naik S.N. (2017). Physical attributes and modelling of trans-Himalayan sea-buckthorn berries. Current Research in Nutrition and Food Science Journal, 5(3), 391-397.
 - Jaiswal S.G., Patel M., Saxena D.K. & Naik S.N. (2017). Comparative effect of extraction solvent on the antioxidant activity of selected leafy vegetables. Journal of Horticultural Research, 25(2), 75-80.
 - Jaiswal S.G. & Naik S.N. (2017). Pressurized Liquid Extraction of Antioxidant Compounds from Green Tea. American Journal of Food Technology, 12(6), 358-366.
 - Patel M., Jaiswal S.G., Naik B., Naik M., Saxena D. & Naik S.N. (2016). Development of antioxidant rich beverage from Mahua (Madhuca indica) and Amla (Emblica officinalis). Journal of Scientific and Industrial Research, 75(1), 35-39.
 - Jaiswal S.G. & Naik S.N. (2015). Antioxidant properties and stability study of γ- oryzanol separated from rice bran oil distillate. Journal of Lipid Science and Technology, 47(2), 48-53.
 - Jaiswal S.G., Patel M. & Naik S.N. (2015). Physicochemical properties of Jamun (*Syzygium cumini*) jam and comparative antioxidant study with other fruit jams. *Indian Journal of Natural Product Resources*, 6(1), 9-15.

- Jaiswal S.G., Pradhan S., Patel M., Naik M. & Naik S.N. (2015). Rice bran oil distillate, a choice for γ-oryzanol: separation and oxidative stability study. *Journal of Food Research*, 4(2), 36-43.
- Sahu S.N., Jaiswal S.G. & Naik S.N. (2015). Physico-chemical, thermal and oxidative properties of wild chironji (*Buchanania lanzan* Spreng.) kernel oil. Journal of Lipid Science and Technology, 47(1), 3-9.
- Jaiswal S.G., Patel M., Saxena D. & Naik S.N., (2014). Antioxidant Properties of Piper Betel (L) Leaf Extracts from Six different Geographical domain of India. Journal of Bioresource Engineering and Technology, 2(2), 12-20.
- Jaiswal S. & Naik S.N. (2014). Lipid based antioxidants: An overview. Lipid Universe, 1(4), 9-12.

Books/Book Chapters

- Jaiswal S.G. & Naik S.N. (2021). Extraction of natural antioxidants for edible oil preservation, *LAP Lambert Academic Publishing*, ISBN13: 978-620-4-20546-5.
- Jaiswal S.G. & Naik S.N. (2024). Review on supercritical carbon Dioxide Extraction of Medicinal Natural Products. In Editors R.Y. Qassim (Ed.), Contemporary Perspective on Science, Technology and Research. B.P. International, pp. 160-184, DOI: 10.9734/bpi/cpstr/v6/8975A. P-ISBN978-81-970867-9-3 E-ISBN 978-81-970867-5-5.
- Siddique M.M., Patil C., Jaiswal S., Patel A.M. (2024). Educational Research Methods NEP 2020 Perspectives. A2Z Edu Learning Hub LLP. ISBN 978-81-979349-0-2.

MOOC Certification

Sr. No.	Course Name	Duration (in Weeks)	Credits	Marks (Out of 100)	Performan ce
1	Food Science and Processing	12	04	85	Completed
2	Food Microbiology and Food Safety	15	04	62	Completed
3	Roadmap for Patent Creation	08	02	75	Completed
4	Dairy & Food Process & Product Technology	12	04	65	Completed
5	Accreditation &Outcome Based Learning	08	02	58	Completed
6	NBA Accreditation & Teaching & Learning in Engineering	12	03	66	Completed
7	Natural Resource Management	12	03	50	Completed

8	Sustainable Engineering Concepts	08	02	60	Completed
	& Life Cycle Analysis				

Awards, Achievements and Recognition

- 2012 2014: Junior Research Fellowship (JRF): Project funded by Ministry of Food Processing Industries (MOFPI), Govt. of India.
- 2014 2015: Senior Research Fellowship (SRF): Industrial Research and Development Unit, IRD-IITD.
- January 2016 June 2016: Senior Research Fellowship (SRF): Ministry of Human Resource and Development (MHRD), Govt. of India.
- 2013: 12th Euro. Fed. Lipid Congress, Montpellier (France): Supported by "The International Travel Support Scheme", IRD-IITD.
- 2015: Biologically Active Compounds in Food International Conference, Lodz (Poland):Supported by DBT funded Project, Govt. of India.
- 2017: CSIR-RA Fellowship for Post-Doctoral Studies has been awarded by Council of Scientific and Industrial Research, Govt. of India. (Grant No. 09/086(1268)/2017-EMR-I).
- 2018: SRSF Post-Doctoral Fellowship has been awarded by Shastri Indo-Canadian Institute (SICI) for Post -Doctoral research work at University of Saskatchewan, Saskatoon, Canada
- Actively participated and contributed as organizing committee member in the international conference "IGC 2024" organized by Indian Geotechnical Society and MIT Chhatrapati Sambhajinagar.
- Teaching Assistant in RDL726 (Herbal, Medicinal and Aromatic products and actively conducted whole practical's of RDL 726 Lab at IITD. (2012-2015).
- Student co-ordinator from Centre for Rural Development and Technology in TRYST, IITD event (2013).
- Student co-ordinator from Centre for Rural Development and Technology for OPEN HOUSE, IITD event (2012).
- 3rd Position in Oil Technology Department at Nagpur University level (2009).
- 1st Prize in "Food Tech 2007" cultural event of Food Technology College (2007)
- First grade in the exam of "Vidarbha Sahitya Sangh: Pariksha Samitee, Nagpur (M.S.) (2003)