

Name: Dr. Yuvraj Gopinath Kasal
Email : yuvrajkasal2010@gmail.com
Mob. : 8968223283/9766015248
Address: At Zapwadi, Post Mangrul
Tal- Junnar, Dist –Pune

Professional strengths

- In-depth knowledge of agricultural equipments and machineries
- Ability to maintain and establish good working relationships with others
- Familiar with the techniques, methods and procedures used in the design, development and testing of farm machineries.
- Ability to generate innovative policies and assist in putting the policies of the government into practice
- Possess excellent verbal and written communication skills
- Familiar with operating systems like Microsoft Word, PowerPoint, Excel and the Internet
- Possess good solving skills and ability to work independently
- Extensive knowledge of the methods and materials used in farm machinery manufacturing
- Ability to work independently and as part of a team

Academic qualifications

Degree	Faculty	University	Year	Percent	Class
Ph.D	Farm Power and Machinery	Dr. PDKV, Akola	2017	86.90	Dist.
M.Tech	Farm Power and Machinery	CCSHAU, Hisar	2012	77.50	1 st
B.Tech	Agricultural Engineering	MPKV, Rahuri	2010	78.10	1 st
HSC	Science	Mumbai	2006	63.17	1 st
SSC	-	Mumbai Board	2004	79.46	1 st

Publication details

Research papers

- **Er. Y. G. Kasal**, S. K. Thakare, M. M. Deshmukh, Liquid fertilizer application system on planting mechanism a concept. International Journal of Tropical Agriculture. 2015. Vol. 33:4, pp-3789-3791. (NAAS – 3.03)

- **Er. Y. G. Kasal**, S. K. Thakare, M. M. Deshmukh, Development and laboratory optimization of liquid fertilizer application system. International Journal of Tropical Agriculture. 2015. Vol. 33:4, pp-3783-3787. (NAAS – 3.03)
- Swati Shinde, **Yuvraj G. Kasal**. Performance evaluation of low cost pedal cum power operated chaff cutter. Multilogic in Science. 2016. Vol. 5:15. pp- 241-244. (NAAS – 3.45)
- A. M. Gore, A. S. Khadake, **Y. G. Kasal**. Fabrication and calibration of discharge measuring structures. 2015. Multilogic in Science. 2015. Vol. 5:14. pp- 49-52. (NAAS – 3.45)
- **Yuvraj G. Kasal**, Vijaya Rani, R.K Johrar, M.S. Sidhpuria, Anil Kumar and S. Mukesh. 2017. Development of Water Application Attachment on Seed Drill for Dry Land Farming. Indian J. Dryland Agric. Res. & Dev. 2017 32(1) : 11-14. (NAAS – 4.58)
- **Dr. Yuvraj Kasal** and Vijaya Rani. 2017. Optimization of water application attachment on seed drill. Indian Agriculturist. Vol. 61:1,2. (NAAS – 4.11)
- **Dr. Yuvraj Kasal**, Dr. Poonam P. Shete and Dr. Amol Gore. 2018. Impact of agricultural mechanization on small holding rural population. Indian Agriculturist. Vol. 61:3 and 4, pp-187-197. (NAAS – 4.11)
- **Yuvraj G. Kasal**, Amol Gore, Poonam P. Shete and Mayur Thalkar. 2018. Effect of travel speed of tractor on rate of application in liquid fertilizer application system. Plant Archives. Vol. 18:1. Pp-987-990. (NAAS-4.41)
- Amol Gore, **Yuvraj G. Kasal**, Sachin Shinde.2018. Field evaluation of self propelled reaper binder in wheat crop. Plant Archives. Vol. 18:1. Pp-551-554. (NAAS-4.41)
- Mayur Thalkar and **Yuvraj Kasal**. 2018. Productive and reproductive performance of Purnathadi and Ellichpuri strain of Nagpuri Buffaloes. Plant Archives. Vol. 18:1. Pp- 1122-1124. (NAAS-4.41)
- Poonam P. Shete, **Yuvraj Kasal** and R. R. Perane. 2018. Screening of the cotton genotypes against *Ramularia Areola* ATK. under field condition. Plant Archives.Vol. 18:1. Pp-734-736. (NAAS-4.41)
- Poonam P. Shete, Pankaj B. Deore and **Yuvraj G. Kasal**. 2018. Studies on Sclerotial characteristics of *Sclerotium Rolfcii* isolates of groundnut on different media. Plant Archives.Vol. 18:1. Pp-852-856. (NAAS-4.41)

- R. N. Bhise, D. S. Gaikwad, **Y. G. Kasal** and J. R. Kadam. 2018. Adoption behaviour of dairy farmers about recommended dairy management practices. Plant Archives.Vol. 18:1. Pp-523-530. (NAAS-4.41)
- D. S. Gaikwad, R. N. Bhise, **Y. G. Kasal** and Arun Kumar. 2018. Effect of different feeding levels of Emblica Officinalis (Amla) on economics of broilers production. Plant Archives.Vol. 18:1. Pp-897-900. (NAAS-4.41)
- **Yuvraj G. Kasal**, Amol Gore, Poonam P. Shete. 2018. Fertilizer placement methods and equipments in liquid form. Multilogic in Science. Vol. 8:26. Pp- 43-44. (NAAS-5.2)
- **Yuvraj G. Kasal**, Satish K. Thakare, Poonam P. Shete. 2019. Effect of pressure attribute on rate of application in liquid fertilizer application system. Plant Cell Biotechnology and Molecular Biology. Vol. 20:1,2. Pp-67-72. (NAAS-4.48)
- Dnyaneshwar Madane, Nitin Misal, **Yuvraj G. Kasal**. 2019. Effect of various irrigation and fertigation levels on sweet orange under drip irrigation. Plant Cell Biotechnology and Molecular Biology. Vol. 20:5,6. Pp-200-203. (NAAS-4.48)
- Rubai Podder and Yuvraj Kasal. 2019. Assessment of nutrient dynamics affected by different soil amendments in green gram crop under field condition. Plant Cell Biotechnology and Molecular Biology. Vol. 20:19,20. Pp-846-848. (NAAS-4.48)

Published various Marathi articles in magazines and newspapers/Technical Papers

- फवारणी यंत्रांची योग्यरीत्या देखभाल, स्वच्छता आणि संचय
- गणित पेरणी यंत्रांचे
- कृषी अवजारे व त्यांची निवड त्यासाठी लागणारी गणितीय सूत्रे
- कोरडवाहू शेतीसाठी पेरणीसोबत सिंचनाची सोय देणारे यंत्र बनविण्याचे गणितीय सूत्र
- आधुनिक आणि पारंपारिक शेतीचा संरचना
- स्थायुरूप खतांच्या तुलनेत द्रवरूप खतांचे फायदे
- लेजर लेवलर आधुनिक शेतीतील गरज
- कृषी यांत्रिकीकरणाचे भारतीय शेतीतील योगदान
- पाण्याविन व्यर्थ कृषी पाण्याविन व्यर्थ जीवन
- ट्रॅक्टर अश्वशक्ती आणि कृषी उपकरणांच्या आकारमानाचे अनुरोपण
- शेतकर्यांनी शेतात केव्हा, काय आणि का लावावे ?
- कपाशी पिकावरील रोगाचे व्यवस्थापन
- बळी राजाची आर्त हाक ऐकण्याची गरज
- हरभऱ्या मध्ये दिसतोय मर मुळकुज करण्याचा प्रादुर्भाव
- Precision farming: The production enhancing techniques in Agrobios magazine
- Advertisement: Tool for popularization of Products in Agrobios magazine
- Spraying for effective pest and weed control in Agrobios magazine
- Hydroponics and different growing media in Agrobios magazine

Book/book chapters

- A book published on “**Modification and performance evaluation of Pigeon Pea Stem Cutter**” in LAMBERT publication.
- A book published on “**Liquid fertilizer application system**” in LAMBERT publication.

Abstracts Published

- Published abstract on water application attachment on seed drill for dryland farming in Agrotechnol, AGT (an open access journal). Oct-2014. pp-265.
- Effect of pressure attribute on rate of application in liquid fertilizer application system in National level conference on “Sustainable Agriculture and Food Nutrition Security at Lovely Professional University, Phagwara Punjab.2018
- Development of axial flow blower for small HP tractor for orchard spraying in National level conference on “Sustainable Agriculture and Food Nutrition Security at Lovely Professional University, Phagwara Punjab.2018
- Utilization of crossbred technology HF X Gir Half-bred cows for high milk yield.
- Utilization of herbal supplements in broilers diet for growth performance.
- A critical study on dairy management practices in konkan region of Maharashtra.
- Approach of farmers towards watershed development program.
- Attitude of rural youth towards agriculture.
- Preference pattern and satisfaction level of agrowon daily readers from Ratnagiri district.
- Effect of different feeding levels of *Embllica officinalis* (Amla) on economics of broilers production.
- Effect of supplementation of shatavari root powder (*Asparagus racemosus*) on growth performance and meat quality of broilers.
- Productive and reproductive performance of purnathadi and ellichpuri strain of Nagpuri buffaloes.
- Morphological Characteristics of Purnathadi and Ellichpuri Strain of Nagpuri Buffaloes.

Syllabus/Instruction plan/Manual Creation
--

- Syllabus and creation of Instruction plan for the course **Farm Power and Machinery** at Lovely Professional University in the academic year 2017-2018
- Syllabus and creation of Instruction plan for the course **Protected cultivation and post harvest technology** at Lovely Professional University in the academic year 2017-2018
- **Laboratory Practical manual and Instruction plan** for the course **Farm Power and Machinery Laboratory** at Lovely Professional University in the academic year 2016-2017.

Projects Under Guidance/Guided (M.Sc./B.Sc. Agri)
--

Name of Student	Registration number	Programme	Topic	Year
Saptarshi Bhowmick	11719017	M.Sc. (Soils)	Effect of irrigation scheduling, mulching and hydrogel on maize.	2019
Rubai Podder	11715380	M.Sc. (Soils)	Assessment of nutrient dynamics affected by different soil amendments in Green gram crop under field condition.	2019
Alas Mohamed Mohamud	11806025	M.Sc. (Soils)	Response of chickpea to different IW/CPE ratio of irrigation schedulling	Appearing
Harinder Singh	11904724	M.Sc. (Soils)	Effect of irrigation scheduling, mulching and hydrogel on Cucumber	Appearing
Vishal Rampal, Amandeep Roy, Sunil, Lovepreet Singh	11401671, 11406934, 11413272, 11401876	M.Sc. (Soils)	Developement of bicycle operated hoe.	2017

Trainings

Professional trainings :

- One month intensive training at the **Central Soil & Water Conservation Engg. Training & Testing Institute, Vasad (Gujrath)** from 1st June to 30th June 2009
- One month intensive training at **Northern Region Farm Machinery Training & Testing Institute, Hisar, Haryana** from 1st May to 30th May, 2008.
- Three weeks intensive training at **Vishwakarma Engineering Works (Punny) on Laser Leveller and it's working, Tohana, Haryana** from 1st July to 21st July, 2011.
- **E-Yantra lab Set up Initiative Training organized by IIT- Bombay**, 1st October 2018 to 10th January 2019.

Faculty development program attended (examples: summer school, winter school, refresher courses, etc.):

- Training on **How to write successful research grant proposals at Lovely Professional University** (1st January 2018 to 31st July 2018)
- Training on **Industry Startups in Secondary Agriculture Sector in the Punjab at Lovely Professional University** (1st January 2018 to 31st July 2018)
- Training on **Smart Learning Smart Teaching at Lovely Professional University** (1st August 2017 to 31st December 2017)
- Training on **Course analysis and syllabus creation at Lovely Professional University** (1st January 2017 to 31st July 2017)
- CDR - Instruction Plan Creation III at Lovely Professional (1st August 2016 to 31st December 2016)
- Entrepreneurship in Agriculture & Agro-based industries including Organic Farming and Waste Management at Lovely Professional University (1st August 2016 to 31st December 2016)
- Course Analysis and Syllabus Creation at Lovely Professional University (1st August 2016 to 31st December 2016)

Conferences attended/ Awards

International level

- Participated in “International conference on Agriculture and Horticulture” held at Hyderabad. 2014

- Published abstract on water application attachment on seed drill for dryland farming in Agrotechnol, AGT (an open access journal). Oct-2014. pp-265.

National level

- Best Yong Teacher Award given by Innovative Research and Development Program, 2019
- Won Second prize in National Level Paper Presentation held at Pandharpur on the topic viz. “Membrane Separation Technology”
- Won Third prize in National Level Project Presentation held at Pandharpur on title “Evaporative Cold Storage Structure”(Zero Energy Cool Chamber)
- Won First prize in National Level Paper Presentation held at Nanded on the topic viz. “water application attachment on seed drill for dryland farming” (March 2014)
- Participated in the national conference on Biodiversity, climatic change and sustainable development at Krantisinh Nana Patil college Walwe, Sangli, Maharashtra.(August 2015)
- First prize in National level conference on “Sustainable Agriculture and Food Nutrition Security at Lovely Professional University, Phagwara Punjab.2018

University level

- University first rank in the subject of Farm Power and Machinery in the Masters level

Patent/ Research contribution

- Designed and developed a water application attachment on seed drill for dry land farming (**Applied for Patent**)
- Designed and developed a liquid fertilizer application system for planting mechanism

Member in professional society

- Member of Indian Society of Agricultural Engineering.
- Member of Vidarbha Agricultural Society
- Member of Indian Science Congress Association-L36004.
- Member of Bioinfo publications- Membership Id : 7D3DFFD442
- Member of Innovative Research and Development Program : Membership Id : IRDP/M/002/2019

Masters and Doctoral Research

Ph.D. research

- Development of Liquid fertilizer Application System for planting mechanism for Ph.D. Research in collaboration with ASPEE, Agriculture and research Foundation.

M.Tech (Farm Power and Machinery)

- Designed and developed a water application attachment on seed drill for dry land farming.

Fellowships/Scholarships/Stipend

Fellowships

- **Inspire Fellowship for Ph. D.** awarded by **Department of Science and Technology**, Govt. of India.
- Rank in the all India Junior Research fellowship conducted by ICAR
- Research stipend from ASPEE, Agricultural Research Foundation

Extension activities

- Radio talk given on Radio Orange-91.9 FM “Machine for the application of water along with sowing.
- Regional Newspaper articles
- Field demonstrations of Agricultural Machineries to farmers
- Carried different RAWE program for students
- Hands on Training program for the students

Work Experience

- 3.5 years’ experience of teaching in Lovely Professional University

Courses Taught in B. Sc. Agri. And B. Tech (Agricultural Engineering)

- Protected cultivation and Post Harvest Technology
- Protected cultivation and Post Harvest Technology Laboratory
- Farm Power Machinery
- Farm Power Machinery Laboratory
- Management testing and evaluation of agricultural equipment
- RAWE
- Hands on Training
- Renewable energy and green technology

Other curricular activities

- Participated in various cultural and sports activities at College level.

- Won State Level Karate Championship on 12 th Jan 2003 at Mira Road, Dist- Thane, Maharashtra
- Member of Food and hospitality committee in the National level conference on “Sustainable Agriculture and Food Nutrition Security at Lovely Professional University, Phagwara Punjab.2018.
- Member of Conduct (Stage and decoration) committee in the 106th Indian Science Congress held at Lovely Professional University, Phagwara Punjab.2019.

Declaration:-

I do hereby declare that all the information given above is true to the best of my knowledge and belief.

Date :

Place :

Signature