Name of Faculty:	Dr. Archana Chaugule
Qualification :	Ph.D
Designation :	Professor and Head of department
Department :	Computer
Date of Joining :	22/06/2017
Experience :	**Teaching :22.5 years** **Industry:1.5 years** **Research:**
Research Areas / Area of Specialization	Machine learning,Data mining, Image processing
Courses / Subjects Taken:	i. Machine Learning (BE-Comp) ii. Data Mining and Warehousing (BE-Comp) iii. Discrete Structures (SE Comp) iv. Relational Database and visual programming lab(TE-Comp) v. Computer Graphics (SE Comp) vi. Information System laboratory(TE IT) vii. Programming Lab(SE Comp) viii. Database management system (T.E. IT) ix. Object-oriented and Computer Graphics (SE Comp) x. Distributed systems (B.E. IT) xi. Data structures(S.E.EnTC) xii. Advanced Database management system (B.E. IT) xiii. Object oriented programming(C++) xiv. Mobile computing(B.E. IT) xv. Programming in 'C' xvi. Visual Basic programming/Oracle

IPR : **Patent**	**Title**	**Docker No./ Diary No.**	**Registered /Filed**
	Title of invention : **"System for Seed Testing"**	Patent No. : 348962, Application No: 3562/MUM/2014 A, Date of filing of application :12/11/2014.	**GRANTED PATENT**
	Title of invention :**"Fertilizerometer"**	Application No: 201921052322, Date of filing of application :17/12/2019.	**Filed**

Copyright	OBE Based Academic Planning and Implementation Manual	Diary Number: 15088/2021-CO/L	Registration No: L-106372/2021
	"Simple Plagiarism Checker",	Diary Number:11982/2021-CO/L	Registration number:L-105660/2021
	"To develop Handwritten Hindi Digit Recognition System using Deep Learning with Keras and Tensor flow Libraries"	Diary Number: 10322/2021-CO/L,	
	"Improved teaching learning process"	Diary Number:10711/2021-CO/L,	Registration number:L-104739/2021,
	"Fertilizerometer"	Diary Number: 7829/2019-CO/L	Registration number:L-83795/2019
	"Automatization of temple door opening during rush hours"	Diary Number: 11852/2017-CO/L	Registration number:69638/2017
	"Novel Features of Seeds for Discriminating Paddy Seed Varieties"	Diary Number: 297/2015-CO/L	Registration number: L-61421/2015
	"Seed Quality Testing Based on Purity, Vigour and health tests using Computer Vision Technology"	Diary Number: 51086/2014-CO/L	Registration number: L-59515/2014
Research Publications :			
Journal Publications:	**Year**	**Title of Paper**	**Published in**
	June 2021	**"Survey of Seed Classification techniques,"**	Turkish Journal of Computer and Mathematics Education (TJCME),
	June-2021.	**"Handwritten Hindi Digit Recognition,"**	High Technology letter,
	Sep - Oct 2020	**"Application to Monitor and Manage People In Crowded Places Using Neural Networks,"**	International Journal of Scientific Research and Engineering Development
	July-Aug-2020	**"Virtual Reality based Automobile Parts Learning using Hand Tracking,"**	International Journal of Scientific Research & Engineering Trends
	Nov-Dec-2019	**"Crowd Monitoring System using Artificial Neural Networks,"**	International Journal of Scientific Research & Engineering Trends
	April 2019	**"Comparison of Six Color Models for Variety Identification of Four Paddy Grains,"**	International Journal of Computer Sciences and Engineering,
	sept 2018	**"Performance Analysis of Cuckoo Search Algorithm for Feature Selection of Seeds,"**	Journal of Image Processing & Pattern Recognition Progress,
	Nov- 2017	**"Correlation between**	International journal of

		Paddy seed features for seed identification,"	Computer engineering and applications,
	2017, 2018- Impact factor : 0.846, **SCI Indexed**	**"A new method using feature extraction for identifying paddy rice species for quality seed selection,"**	**Taylor & Francis, THE IMAGING SCIENCE JOURNAL,**
	Vol. 123, pp.415-422, 2016, **SCIE Indexed**	**"Identification of Paddy Varieties Based on Novel Seed Angle Features,"**	**Elsevier, Computers and Electronics in Agriculture,**
	2016.	**"Recognition Of Seeds Using Novel Color Features For Quality Seed Selection,"**	Journal of Basic and Applied Research International,
	2016.	**"Analysis of DWT-GLCM-Tamura and Angle features for variety identification of seeds**,"	Medwell Journals, Asian Journal of Information Technology.
	2015	**"Performance comparison of second order statistics texture features for variety identification of paddy seeds,"**	Inderscience - International Journal of Applied Pattern Recognition,
	2015	**"Digital Separation of Occluded Seeds using Image Analysis,"**	International Journal of Computer Applications
	Vol. 2014, Web of **science Indexed**	**"Evaluation of Texture and Shape Features for Classification of Four Paddy Varieties**	**,"** Hindawi Publishing Corporation, Journal of Engineering,
	2014,	**"Evaluation of Color and Shape Features for Discriminating Paddy Varieties,"**	I.J. Image, Graphics and Signal Processing,
	April 2012.	**"Application of Image Processing in Seed Technology: A survey,"**	International Journal of Emerging Technology and Advanced Engineering,
	Mar 2014	**"Evaluation of Color Features for Discriminating Paddy Varieties,"**	c-PgCon-2014,
	December 2016.	**"Impact of Question Classification on Accuracy of Question Answering System**,"	International Journal of Computer Applications
	February 2016.	**"A New Protected Image Transmission Idea via Secret-Splits-Visible Mosaic Images by Nearly Reversible Color Transformations,"**	International Journal of Computer Applications

	January 2016.	"**Facial Wrinkles Detection Techniques and its Application**,"	International Journal of Computer Applications
	2015	"**Search Based Face Annotation Using Weakly Labeled Facial Images**,"	International Journal of Computer Science and Information Technologies,
	November 2014.	"**A Survey on Search Based Face Annotation Using Weakly Labelled Facial Images**,"	International Journal of Advanced Research in Computer Science and Software Engineering
	2015	"**Search Based Face Annotation Using PCA and Unsupervised Label Refinement Algorithms**,"	International Journal of Computer Science and Information Technologies,
	2015	"**Content-Based Face Image Retrieval Using Attribute-Enhanced Sparse Codewords** ,"	International Journal of Computer Science and Information Technologies,
	Dec. 2014	**Survey on Content Based Face Image Retrieval and Attribute Detection**,"	International Journal of Science and Research
	2014	"**Performance Enhancement for Effective Pattern Discovery & Concept Formation in Text Mining**,"	International Journal of Advanced Research in Computer Science and Software Engineering,
	January 2014.	"**Text Mining Methods and Techniques**,"	. International Journal of Computer Applications,
	March 2014	"**Skecth4Match:Content Based Image Recognition using colored sketches**,"	International Journal of Engineering Trends and Technology
Conference Publications:	**Year**	**Title of Paper**	**Published in**
	5th - 6th April 2014	**Discrimination of Paddy Varieties using color features and Neural Network**,"	Technovision-2014, SITS, Narhe,
	18th -19th Oct 2013,	"**Seed Technological Development – A Survey**,"	International Conference on Information Technology in Signal and Image Processing - ITSIP Conference, Mumbai.
	25th-27th Nov 2013,	"**Area Measurement of seed from distorted images**,"	International Conference On Industrial Applications of Signal Processing (ICIASP) -2013, Karad.

	28th -30th Nov 2013,	**Measurement of seed area using image analysis for quality seed selection**at Nirma.	University International Conference on Engineering NUiCONE Conference, Ahmedabad
	1-2 sept'06.	"**Updates in Replicated Databases independently without using multisite commit Protocol,**"	National conference on "DISTRIBUTED COMPUTING," Dr. D.Y.Patil College of Engg. ,Pimpri , Pune,
	6-8 sept'06.	"**Secure communication using image spoofing and audio spoofing,**",	First International Conference On "Frontier Technologies – Need For Buisness, Industry And Education", Adiyamaan college of Engg., Hossur, Tamil Nadu
	3-4 Mar '08	**Data warehousing and Data mining,**".	NATIONAL CONFERENCE on Emerging Trends in engineering and management, , at Rajashri Shahu College of Engineering,
	2012	"**Criminal Location tracking using AVL tree on multirelational database**,"	NC'NACT-2012 at Indira College of Engineering, National Conference,

Books Publication:	**New Ideas Concerning Science and Technology Vol.3** **Chapter: 11**
Profile Link :	**Scopus Profile:** **Google Scholar Profile:** **https://scholar.google.co.in/citations?user=JDDSkN8AAAAJ& hl=en** **Orchid Profile:**
H –Index:	**5**
Product Developed:	-

Certifications :		
	Data Mining	NPTEL
	Programming for everybody	coursera
	Advanced Google Classroom for Education	coursera

Awards/Appreciation/Achievements:	• Conferred with a World record attempt of "MAXIMUM NUMBER OF PATENTS FILED BY WOMENS ON SINGLE DAY" which was conducted on 17th Dec 2019, where total patents were filed by 38 lady faculties. • Conferred with a InSc Research Excellence Award 2019 by Institutes of Scholars • Felicitated by Pimpri-Chinchwad College of Engineering and Research on 12th Jan 2019 for contribution in world record for copyright world

	record.
	• Conferred with a Best Researcher Award by DK International Research Foundation DKIRF Awards 2018 on 30th December 2018, at Tamil Nadu
	• Felicitated by Pimpri-Chinchwad College of Engineering and Research on 15th Feb 2020 for contribution in world record for ladies patent.
Membership:	Member of ISTE, Membership No: LM33083 Member of ACM, Membership No: 8805907 Member of INSC Insc Id: Insc2019649 Member of IAENG, Membership No: 262069 **CSI**
Industrial Training :	-
Resource Person /Expert Session/Jury Invited:	**Conducted various sessions on Discrete mathematics, Copyright at various colleges.**

Workshop/FDP/STTP attended(more than a Week):	Sr. No.	Workshops Attended	Date	Place
	1.	One week FDP on Python 3.4.3 in association with IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India.	20 to 25 April 2020	PCCOER
	2.	AICTE Sponsored online One Week Short Term Training Programme on "Blockchain and its Applications"	30th Nov 2020 to 5th Dec 2020.	D.Y.PATIL IOT,PIMPRI
	3.	Two Week Online Faculty Development Program under AQIS 2019-2020 "Emerging Trends in Deep Learning and Its Applications"	7th Dec 2020 to 19th dec 2020	D.Y.PATIL IOT,PIMPRI
	4.	FDP on Cyber security	30th April 2019 to 5th May 2019	PCCOER
	5.	BE- LP-II FDP	16th July 2018	DYPIEMR
	6.	BE Syllabus Revision	30th Jan 2018	Anantrao Pawar College Of Engineering and Research, Pune-09
	7.	Probability and Statistics For Machine Learning and Deep Learning	05th December - 09th December, 2017	AIT,Pune
	8.	NBA Orientation Workshop	30th and 31st October 2017	Zeal Education Society at Hotel JW Marriot
	9.	FDP on Big data and hadoop	7th -12th march 2016	DYPIET
	10.	Education Technology for Engineering Teachers	7th Jan to 7th March 2016	IIT-Bombay, RC-DYPIET
	11.	ISTE workshop on Introduction to Design of Algorithms :STTP	27th April - 30th May 2015	IIT-Kharagpur , RC: symbiosis
	12.	Machine learning algorithms, Data mining tools and big data analytics :FDP	28th Jan 2015 - 1st Feb 2015	SITS, Narhe
	13.	QT opensource framework for	15th Feb	AIT,Pune

		Computer graphics and gaming	2014	
	14.	Workshop on syllabus discussion Syllabus discussion, T.E.(Computer Engineering) 2012	14th Feb 2014	Pad. Dr. DYPIET,Pune
	15.	Emerging Trends & Applications in ML	27th & 28th Dec 2013	Pad. Dr. DYPIET,Pune
	16.	Educational level IP Awareness program	5th Sep 2013	Pune University campus, pune
	17.	Discrete Structures :FDP	20th July 2013	Anantrao pawar COE
	18.	ISTE workshop on database Management Systems	21-31 May 2013	IIT-Bombay, RC: DYPIET
	19.	Current trends in information and cyber security	21st March 2013	Pad. Dr. DYPIET,Pune
	20.	Aakash for education	10th -11th Nov 2012	IIT-Bombay, RC: DYPIET
	21.	Signal and Image Processing using LabVIEW	18th -20th July 2012	AIT, Dighi, Pune
	22.	Business Intelligence and Analytics :FDP	28th -29th June 2012	Persistent, Pune
	23.	Current trends in Distributed systems	22th -24th Jan 2012	PVG, COE , Pune
	24.	Mobile computing and business intelligence	13th Jan 2012	PCCOE,Pune
	25.	Conflict management and Java	7th & 8th July 2011	Cognizant , Pune
	26.	DB2	7th & 8th Jan 2009	PICT,Pune
	27.	Research Methodologies in IT	3rd & 4th Oct 2008	DYPIET ,Pimpri
	28.	FPL-F.E-2008	26th Sept 2008	PCCOE,Pune
	29.	Component based software engineering and software architecture	23rd – 27th June 2008	AIT,Pune
	30.	Data warehousing	31st Jan 2008	ACCENTURE, Pune
	31.	Software Engineering	22nd -28th Dec 2007	PERSISTENT, Pune
	32.	Human Computer Interface	21st – 26th May 2007	Sinhgad COE
	33.	WEB TECHNOLOGIES	6th -10th Nov 2006	VENUTAI POLYTECHNIC , Pune
	34.	Induction Training PHASE – I	17th June 2002 to 12th July 2002	GP, Pune
	35.	CAMPUS WIDE NETWORKING	30th June 2001	VIT, Pune

Event Organized Inter department/Inter college/ Other recognized Industry/IIT's/NPTEL/SPOKE N TUTORIAL/ etc. :	**Name of Conference/ Seminars / Workshops**	**University/State/National/ International**	**Dates**
	FDP on Machine learning using PYTHON	State	12th Dec to 13th Dec

			2018
	FDP on cybersecuirty	National	30th April to 5th May 2019
	Convenor of First Conference on Indian Patents Copyrights Innovations & Startups –CIPCIS 2019	International	21st & 22nd Dec 2019
	Convenor of First Online State Level Event – TechnoSpark-2020@PCCOE&R	National	29th May-30th May 2020
	FDP on Python 3.4.3	National	20th to 25th April 2020
	One Day Online **Faculty Development Programme** on Digital Electronics laboratory (SE 2019 Course)	State	6th July 2020
	Workshop on role of supporting staff in NBA PROCESS & Self development	National	10 to 14th May 2021
Event Organized in Department:			
University level appointments:	Chairman and paper setters for various subjects		
Administrative Duties:	Overall coordination of department		
Academics Duties:	Teaching		
Any Other	(text)		