**5.5. Faculty competencies in correlation to Program Specific Criteria (10)**

|  |  |
| --- | --- |
| https://www.uitrgpv.ac.in/aboutdepartment/facultyimages/roopam_passport_081220121320.jpeg | *Name: Dr. Roopam Gupta*  *Designation: Professor*  *Course Taught: Computer Networks, Cyber Law and Forensics, Internet Technology and Network Management, Specialization: Networking and Communication*  *Experience(in Years): 28 (10 Months Industry)* |
| *am.jpeg* | *Name: Dr. Asmita A. Moghe*  *Designation: HoD*  *Course Taught: Soft Computing, Digital Communication, , Communication system, Wireless & Mobile computing*  *Specialization: Image Processing, Digital Communication*  *Experience(in Years): 23 (Other 2 yrs)* |
| *ap.jpeg* | *Name: Dr. Anjana Pandey*  *Designation: Associate Professor*  *Course Taught: Data Mining & Warehousing, E - Commerce  & E-Governance*  *Specialization: Data Mining, Social Network*  *Experience(in Years): 16*  *No. of Projects: 02* |
| *ra.jpeg* | *Name: Dr. Ratish Agarwal*  *Designation: Associate Professor*  *Course Taught: Digital Circuits & Systems, Computer Architecture*  *Specialization: Digital Communication*  *Experience(in Years):13 (4 Industry)*  *No. of Projects:02* |
| *mp.jpg* | *Name: Dr. Mahesh Pawar*  *Designation: Associate Professor*  *Course Taught: Database Management System, Distributed system*  *Specialization: Software Engineering, DBMS, Big Data and Hadoop*  *Experience(in Years):20 (2 Industry)*  *No. of Projects: 02* |
| *sg.jpeg* | *Name: Dr. Sachin Goyal*  *Designation: Associate Professor*  *Course Taught: Theory of Computation, Information Security, Operating System*  *Specialization: Digital watermarking*  *Experience(in Years): 16*  *No. of Projects: 02* |
| *https://www.uitrgpv.ac.in/aboutdepartment/facultyimages/neera_lal_020821123230.jpg* | *Name: Ms. Neera Lal*  *Designation: Assistant Professor*  *Course Taught: Data Structures, Analysis and Design of Algorithms, Fundamental of IT, Environmental Science*  *Specialization: Image Processing*  *Experience(in Years):8* |
| *es.jpg* | *Name: Ms. Ekta Shrivastava*  *Designation: Assistant Professor*  *Course Taught: OOAD, JAVA, FOCSE, EOITK, Web Tech*  *Specialization: Image Processing*  *Experience(in Years): 3.10* |
| *sm.jpg* | *Name: Ms. Shifa Manihar*  *Designation: Assistant Professor*  *Course Taught:Operating System, Discrete Structures, Compiler Design*  *Specialization: Neural Network, IoT*  *Experience(in Years): 9 .2* |
| *an.jpg* | *Name: Mr. Arpit Namdev*  *Designation: Assistant Professor*  *Course Taught: Software Engineering, WMC, Data Science, IC, ISM*  *Specialization: Adhoc Network*  *Experience(in Years): 5* |
| *my.jpg* | *Name: Mr. Mahendra Yadav*  *Designation: Assistant Professor*  *Course Taught: Fundamental of Computer Science & engg., OOAD, Artificial Intelligence, CSO, Microprocessor*  *Specialization: Computer Network and Programming Language*  *Experience(in Years): 5* |
| *vr.jpg* | *Name: Mr. Vikas Kumar Rohit*  *Designation: Assistant Professor*  *Course Taught: Object Oriented Programming & Methodology, Computer Graphics & Multimedia, Artificial Intelligence, Soft Computing, Data Science, Cloud Computing*  *Specialization:*  *Experience(in Years): 9* |

**5.6. Innovations by the Faculty in Teaching and Learning (10)**

Teaching and learning innovative practices are introduced to raise the curiosity of a student in wide domain to encourage the students to question the obvious and to increase the interaction in the class.

Following are the best and innovative practices undertaken by the faculty members for improving teaching and learning experience.

1. Faculty and students use ROLE(Rajiv Gandi Online Learning & Education) Platform for Online teaching at https://it.rgpvonline.org/login/
2. Forum is developed for students of IT Department for interacting and sharing study material, giving assignments, downloading necessary softwares from anywhere. This can be accessed at <https://likhopao.com/forum/>
3. Video Lecture: MOOC Digital Library developed under TEQIP-III for developing video lectures of faculty of the institute is a step towards facilitating students with online lectures.
4. NPTEL Videos: Teachers encourage students to see NPTEL video for improving learning & knowledge. Also teachers too use nptel lectures for enhancing their skills and have also themselves completed many nptel courses.
5. Smart board/Interactive Board, Digital Writing Pad-Use of latest Interactive boards by faculty gives them more flexibility in teaching and a better visualization and understanding for the students.
6. Think , Pair & Share: Student pairs are formed, they are given a common problem/situation and they are asked to come up with solution. Then solutions of different groups/pairs are shared. This activity increases out of the box thinking ability and exposes them to possible solution and also develops competitive spirit.
7. Coding Contests: Department yearly organizes inter Departmental coding contest” CodeAdept” to hone their coding skills. Four such Coding contests CodeAdept 1.0 - CodeAdept 4.0 have been held so far.
8. Power Point Presentation- All faculty use Power point along with chalk board method since it encourages and supports teaching learning process by facilitating the material presentation.  It enhances overall comprehension of students and allows teachers to present their lessons in a more dynamic way. Teachers can focus on the class and interact with the students conveniently.
9. GD/ Seminars: The overall objective of this activity is to motivate students for self Study and Group Study. Seminars are a vital part of academic courses that gives an opportunity to develop essential skills and understanding of the subject, soft skills, communication with peers, self confidence etc.
10. Work in Groups : During program students work in small to medium groups to demonstrate knowledge and understanding of the engineering and apply these to ones own work, as a member and leader in a team, to manage projects in information technology environments.
11. Internship/Industrial Training: The students are required to undergo a 60,90 and 120 hours of internship by the end of First,Second and Third year respectivily of there degree course. This provides a firsthand feel for the job environment and makes them industry ready. The main reason behind this is helps student to know things practically through interaction, working methods and employment practices.

**5.7. Faculty as participants in Faculty development/training activities/STTPs (15)**

* A Faculty scores maximum five points for participation
* Participation in 2 to 5 days Faculty/ Faculty development program: 3 Points
* Participation >5 days Faculty/ Faculty development program: 5 points

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the Faculty** | **Max. 5 per Faculty** | | |
| **CAY*m*1**  (2019-20) | **CAYm2**  (2018-19) | **CAYm3**  (2017-18) |
| **Dr. Asmita A. Moghe** | **5** | **5** | **5** |
| **Dr. Roopam Gupta** | **5** | **5** | **5** |
| **Dr. Anjana Pandey** | **5** | **5** | **5** |
| **Dr. Ratish Agarwal** | **5** | **5** | **5** |
| **Dr. Sachin Goyal** | **5** | **5** | **5** |
| **Dr. Mahesh Pawar** | **5** | **5** | **5** |
| **Ms. Neera Lal** | **3** | **3** | **5** |
| **Ms. Ekta Shrivastava** | **3** | **3** | **5** |
| **Ms. Shifa Manihar** | **5** | **0** | **0** |
| **Mr. Arpit Namdev** | **3** | **5** | **5** |
| **Mr. Vikas Rohit** | **5** | **5** | **5** |
| **Mr. Mahendra Yadav** | **0** | **0** | **3** |
| **Sum** | **49** | **46** | **53** |
| ***RF*= Number of Faculty required to comply**  **with 20:1 Student-Faculty ratio as per 5.1** | **10** | **10** | **10** |
| **Assessment = 3 × (Sum/0.5 RF)**  **(Marks limited to 15)** | **=3X(49/(0.5x10))**  **= 29.40** | **=3X(46/(0.5x10))**  **= 27.60** | **=3X(53/(0.5x10))**  **= 31.80** |
| **Average assessment over last three years (Marks limited to 15) =** | | | **29.60** |

**5.8. Research and Development (75)**

**5.8.1. Academic Research (20)**

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

**** Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (15)

**Excel Table 5.8.1**

**** Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (5)

**Department Publication**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Publication | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
| SCI/SCIE/Web of Science | 02 | 05 | 04 | 04 | 08 |
| Patents | 00 | 01 | 02 | 01 | 04 |
| Scopus | 10 | 03 | 14 | 21 | 14 |
| UGC | 15 | 10 | 03 | 01 | 07 |

Book Chapter 2017-2021

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.No. | Title Of The Book | Name Of The Author | Publication | Year of Publications | ISBN No. |
| 1 | Unconventional Prediction Algorithm for Quick Route Convergence And Stability in MANET.   In book Computing, Communication and Signal Processing | Dr. Roopam Gupta | Advances in Intelligent Systems and Computing | 2019 |  |
| 2 | A survey of network intrusion detection using machine learning techniques. Published in Machine learning and data mining for emerging trend in cyber dynamics. | Dr. Roopam Gupta | Springer International Publishing | 2021 |  |
| 3 | [A Comparative Study on Single Image Dehazing Using Convolutional Neural Network](https://www.springer.com/978-981-16-1501-6) | Dr. Roopam Gupta | Smart Computing Techniques and Applications, DOI 978-981-16-1502-3\_39 | 2021 |  |
| 4 | IOT for Health Monitoring " in  Advanced Sensing in Image Processing and IoT | Dr. Asmita A. Moghe | CRC Press Taylor & Francis Group | 2021 |  |
| 5 | [A Comparative Study on Single Image Dehazing Using Convolutional Neural Network](https://www.springer.com/978-981-16-1501-6) | Dr. Asmita A. Moghe | Smart Computing Techniques and Applications, DOI 978-981-16-1502-3\_39 | 2021 |  |
| 6 | Developing a Big-Data- Based Model to Study and Analyze Network Traffic/Big Data and Knowledge Sharing in Virtual Organizations. | Dr. Sachin Goyal | IGI Global | 2019 |  |
| 7 | E-Commerce Business Model, Improving E-Commerce Web Applications Through Business Intelligence Techniques | Dr. Sachin Goyal | IGI Global | 2018 |  |
| 8 | A Practical Approach of Network Simulation, in edited book “Detecting and Mitigating Robotic Cyber Security Risks” | Dr. Sachin Goyal | IGI Global | 2017 |  |
| 9 | Cloud Security Using 2-Factor Image Authentication Technique,  in edited book “Detecting and Mitigating Robotic Cyber Security Risks” | Dr. Sachin Goyal | IGI Global | 2017 |  |
| 10 | Developing a Big-Data- Based Model to Study and  Analyze Network Traffic/Big Data and Knowledge Sharing in Virtual Organizations. | Dr Ratish Agarwal | IGI Global | 2019 |  |
| 11 | E-Commerce Business Model, Improving E-Commerce Web Applications Through Business Intelligence Techniques, | Dr Ratish Agarwal | IGI Global | 2018 |  |
| 12 | A Practical Approach of Network Simulation, in edited book “Detecting and Mitigating Robotic Cyber Security Risks” | Dr Ratish Agarwal | IGI Global | 2017 |  |
| 13 | Cloud Security Using 2-Factor Image Authentication Technique,  in edited book “Detecting and Mitigating Robotic Cyber Security Risks” | Dr Ratish Agarwal | IGI Global | 2017 |  |
| 14 | Developing a Big-Data- Based Model to Study and Analyze Network Traffic/Big Data and Knowledge Sharing in Virtual Organizations. | Dr Anjana Pandey | IGI Global | 2019 |  |
| 15 | Cloud Security Using 2-Factor Image Authentication Technique,  in edited book “Detecting and Mitigating Robotic Cyber Security Risks” | Dr Anjana Pandey | IGI Global | 2017 |  |
| 16 | Prediction Algorithm for Quick Route Convergence And Stability in MANET”Book Editors: Iyer, Brijesh, Nalbalwar, S.L., Pathak, N.P. (Eds.),Springer Nature Pte Ltd 2019 of “Computing, Communication and Signal Processing, Advances in Intelligent Systems and Computing 810” | Dr. Roopam Gupta | Proceedings of ICCASP | 2019 |  |
| 17 | E-commerce business model | Dr. Sachin Goyal | AduooaesiuE-BusiuessReseorrhSeres | 2018 |  |
| 18 | E-commerce business model | Dr Ratish Agarwal | AduooaesiuE-BusiuessReseorrhSeres | 2018 |  |
| 19 | A practical approach of network simulation | Dr Ratish Agarwal | Detecting and Mitigating Robotic Cyber Security Risks | 2017 |  |
| 20 | Developing a Big-Data- Based Model to Study and Analyze Network Traffic/Big Data and Knowledge Sharing in Virtual Organizations. | Dr Mahesh Pawar | IGI Global | 2019 |  |
| 21 | Cloud Security Using 2-Factor Image Authentication Technique,  in edited book “Detecting and Mitigating Robotic Cyber Security Risks” | Dr Mahesh Pawar | IGI Global | 2017 |  |

**Number of quality publications in refereed/SCI Journals**

**2021-2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Faculty Name** | **Title Of The Paper** | **Name Of The Jouornal** | **Month** | **Year Of Publication** | **Vol No** | **Indexed By SCI/Scopus/UGC/Web of Science** | **ISSN No.** |
| **1** | **Dr. Asmita A. Moghe** | **A Comparative Study on Single Image De-Rraining Using Convolutional Neural Network** | **IDEA 2K21 conference , Bhopal** | **Nov.** | **2021** |  | **SCOPUS** |  |
| **2** | **Dr. Asmita A. Moghe** | **Glaucoma Detection Using Bi-dimensional Empirical Mode Decomposition For Retinal Fundus Images** | **International Journal of Intelligent Engineering & Systems** | **Aug** | **2021** | **14(6)** | **SCOPUS** |  |
| **3** | **Asmita A. Moghe** | **Analysis of Synchronization in Coupled Colpitts Oscillators Operating Under The Chaotic Configuration** | **IETE National Conference on VLSI, Communication and Signal Processing,** | **Nov** | **2021** |  |  |  |
| **4** | **Anjana Pandey** | **Comparative analysis of overlap community ditection techniques on social media platform** | **Computer Journal oxford University** | **April** | **2022** |  | **SCIE** |  |
| **5** | **Anjana Pandey** | **Automatic Segmentation of Plant Leave Disease using MIN\_MAX Histogram and K mean Clustring** | **Mutimedia tools and application** | **March** | **2022** |  | **SCIE** |  |
| **6** | **Dr Anjana Pandey** | **Fake news detection system based on modified bi-directional long short term memory** | **Multimedia Tools and Applications** | **March** | **2022** |  | **SCIE** |  |
| **7** | **Dr.Anjana Pandey** | **Accurate Detection of Brain Tumor using compund filter and deep Neural Network.** | **TELKOMNIKA** |  | **2021** |  | **SCOPUS** |  |
| **8** | **Dr.Anjana Pandey** | **Effective network load balancing using the Metaheuristic approach with a multi channel routing Strategy in MANET** | **Design Engineering** | **Sep** | **2021** |  | **SCOPUS** |  |
| **9** | **Dr.Anjana Pandey** | **Plant Leave Disease Classification Using Bayesian Regularization Back Propagation Deep Neural Network** | **Journal Physics** | **Aug** | **2021** |  | **SCOPUS** |  |
| **10** | **Dr Anjana Pandey** | **An approach to compress human genome sequence by delta computation and secure storage by Blockchain** | **Design Engineering** |  | **2021** |  | **SCOPUS** | **0011-9342** |
| **11** | **Dr Anjana Pandey** | **Computer Aided Diagnosis System for Classification of Mammogram using Deep Learning Algorithm** | **DesignEngineering** |  | **2021** |  | **SCOPUS** | **0011-9342** |
| **12** | **Dr Anjana Pandey** | **Blockchain based healthcare information exchange systems for security of healthcare data** | **turkish Online Journal of Qualitative Inquiry (TOJQI)** | **July** | **2021** |  | **SCOPUS** | **4498-4507** |
| **13** | **Dr.Anjana Pandey** | **Smart Detection and Localization of tumor in MRI brain by using Deep Learning and segmentation Techniques.** | **Design Engineering** |  | **2021** |  | **SCOPUS** |  |
| **14** | **Dr Anjana Pandey** | **An Analytical Survey On Covid-19 In Madhya Pradesh In India** | **THE JOURNAL OF ORIENTAL RESEARCH MADRAS** | **july** | **2021** | **XCII** | **UGC** | **0022-3301** |
| **15** | **Dr Anjana Pandey** | **Iot Based Crop Protection Against Animals And Birds With Real Time Fire Detection, And Alert Through Sms** | **THE JOURNAL OF ORIENTAL RESEARCH MADRAS** | **july** | **2021** | **XCII** | **UGC** | **0022-3301** |
| **16** | **Dr Anjana Pandey** | **An Ordinal Approach To Pneumonia Detection From Xray Images Using Convolutional Neural Network (Cnn)\*** | **THE JOURNAL OF ORIENTAL RESEARCH MADRAS** | **july** | **2021** | **XCII** | **UGC** | **0022-3301** |
| **17** | **Dr Anjana Pandey** | **Security & Privacy of Healthcare Information Exchange System Using Blockchain Technology** | **Vigyan Prakashan AICTE Journal** | **Sep** | **2021** |  | **UGC** | **1549-523-X,** |
| **18** | **Dr Anjana Pandey** | **A Trust based food supply chain in agriculture using block chain technology - An india Pereeptive** | **Journal of the maharaja sayajirao university of baroda** | **july** | **2021** |  | **UGC** | **0025-0422** |
| **19** | **Dr Ratish Agarwal** | **Analyzing Machine Learning Enabled Fake News Detection Techniques for Diversified Datasets** | **Wireless Communications and Mobile Computing** | **March** | **2022** | **2022** | **SCI** |  |
| **20** | **Dr Ratish Agarwal** | **A BSA based Communication Strategy for Energy Efficient Flying Ad-hoc Network (FANET)** | **DesignEngineering** |  | **2021** |  | **SCOPUS** | **0011-9342** |
| **21** | **Dr.Ratish Agarwal** | **Effective network load balancing using the Metaheuristic approach with a multi channel routing Strategy in MANET** | **Design Engineering** | **Sep** | **2021** |  | **SCOPUS** |  |
| **22** | **Dr Ratish Agarwal** | **A Method for improving Efficiency and Security of FANET using Chaotic Black Hole Optimization based Routing (BHOR) Technique** | **The 3rd International Conference on Data, Engineering and Applications 2021 (IDEA-2k21)** | **Oct** | **2021** |  | **SCOPUS** |  |
| **23** | **Dr Ratish Agarwal** | **Improved Classification Technique in Data Mining by using Multiple Regression** | **Journal of Applied Science and Computations** | **Jan** | **2022** | **9** | **UGC** | **1076-5131** |
| **24** | **Dr. Mahesh Pawar** | **Novel framework based on deep learning and cloud analytics for smart patient monitoring and recommendation (SPMR)** | [**Journal of Ambient Intelligence and Humanized Computinghttps://doi.org/10.1007/s12652-020-02790-6**](https://doi.org/10.1007/s12652-020-02790-6) | **jan** | **2021** |  | **SCI/Web of Science** |  |
| **25** | **Dr. Mahesh Pawar** | **Comparative analysis of overlap community ditection techniques on social media platform** | **Computer Journal oxford University** | **April** | **2022** |  | **SCIE** |  |
| **26** | **Dr. Mahesh Pawar** | **Smart Detection and Localization of tumor in MRI brain by using Deep Learning and segmentation Techniques.** | **Design Engineering** | **Aug** | **2021** |  | **SCOPUS** |  |
| **27** | **Dr.Mahesh Pawar** | **Accurate Detection of Brain Tumor using compund filter and deep Neural Network.** | **TELKOMNIKA** |  | **2021** |  | **SCOPUS** | **6854-6865** |
| **28** | **Dr.Mahesh Pawar** | **A survey of Comunity Detection Algorithm and its Application** | **Turkish Journal of Computer and Mathematics Education** | **June** | **2021** |  | **SCOPUS** |  |
| **29** | **Dr. Mahesh Pawar** | **Multisepctral Color Image Denoising : A persepective Analysis** | **Journal of Xian Shiyou University, Natural Sciences Edition** | **Oct** | **2021** |  | **SCOPUS** |  |
| **30** | **Dr.Mahesh Pawar** | **An Important Sampling Over Graph Convolutional Network for Comunity detection** | **ICACCS-22IEEE conference** | **March** | **2022** |  | **SCOPUS** |  |
| **31** | **Dr Sachin Goyal** | **A Hybrid digital image watermarking technique based on fuzzy-BPNN and Shark smell optimization** | **Multimedia Tools and Applications** | **April** | **2022** |  | **SCIE** |  |
| **32** | **Dr Sachin Goyal** | **Fake news detection system based on modified bi-directional long short term memory** | **Multimedia Tools and Applications** | **March** | **2022** |  | **SCIE** |  |
| **33** | **Dr Sachin Goyal** | **An effective automatic traffic sign classification and recognition deep convolutional networks** | **Multimedia Tools and Applications** | **Jan** | **2022** |  | **SCIE** |  |
| **34** | **Dr Sachin Goyal** | **Recent Review of Traffic Sign Classification and Recognition from Deep Learning Techniques** | **International Conference on Computer Contemporary Issues In Science, Engineering And Technology th th (ICCISET)** | **February** | **2022** |  | **Scopus** |  |
| **35** | **Dr Sachin Goyal** | **Blockchain based healthcare information exchange systems for security of healthcare data** | **turkish Online Journal of Qualitative Inquiry (TOJQI)** | **July** | **2021** |  | **Scopus** | **4498-4507** |
| **36** | **Dr Sachin Goyal** | **Security & Privacy of Healthcare Information Exchange System Using Blockchain Technology** | **Vigyan Prakashan AICTE Journal** | **Sep** | **2021** |  | **UGC** | **1549-523-X,** |
| **37** | **Dr Sachin Goyal** | **An approach to compress human genome sequence by delta computation and secure storage by Blockchain** | **Design Engineering** |  | **2021** |  | **Scopus** | **0011-9342** |
| **38** | **Dr Sachin Goyal** | **Computer Aided Diagnosis System for Classification of Mammogram using Deep Learning Algorithm** | **DesignEngineering** |  | **2021** |  | **Scopus** | **0011-9342** |
| **39** | **Dr Sachin Goyal** | **A BSA based Communication Strategy for Energy Efficient Flying Ad-hoc Network (FANET)** | **DesignEngineering** |  | **2021** |  | **Scopus** | **0011-9342** |
| **40** | **Dr Sachin Goyal** | **A Method for improving Efficiency and Security of FANET using Chaotic Black Hole Optimization based Routing (BHOR) Technique** | **The 3rd International Conference on Data, Engineering and Applications 2021 (IDEA-2k21)** | **Oct** | **2021** |  | **Scopus** |  |
| **41** | **Dr Sachin Goyal** | **A Machine Learning Method for Customer Sentiment Analysis on Social Media** | **The 3rd International Conference on Data, Engineering and Applications 2021 (IDEA-2k21)** | **Oct** | **2021** |  | **Scopus** |  |
| **42** | **Dr Sachin Goyal** | **Improved Classification Technique in Data Mining by using Multiple Regression** | **Journal of Applied Science and Computations** | **Jan** | **2022** | **9** | **UGC** | **1076-5131** |
| **43** | **Dr Sachin Goyal** | **A Trust based food supply chain in agriculture using block chain technology - An india Pereeptive** | **Journal of the maharaja sayajirao university of baroda** | **july** | **2021** |  | **UGC** | **0025-0422** |
| **44** | **Ms. Shifa Manihar** | **IoT Based Smart Heath Monitoring** | **Recent Advance Science Technology, SAGE University** | **April** | **2021** |  | **Conference** |  |

**2020-2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Faculty Name** | **Title Of The Paper** | **Name Of The Jouornal** | **Month** | **Year Of Publication** | **Vol No** | **Indexed By SCI/Scopus/UGC/Web of Science** | ISSN No. |
| **1** | **Dr. Roopam Gupta** | **An efficient feature subset selection approach for machine learning", Paper accepted in Springer journal of “Multimedia Tools and Applications** | [**2021 https://link.springer.com/article/10.1007/s11042-020-10011-7**](https://link.springer.com/article/10.1007/s11042-020-10011-7) | **Jan** | **2021** |  | **SCI** |  |
| **2** | **Dr. Roopam Gupta** | **Design and Development of an Efficient Network Intrusion Detection System Using Machine Learning Techniques** | **Wireless communications and mobile computing** | **June** | **2021** |  | **SCI** |  |
| **3** | **Dr. Roopam Gupta** | **Ensemble learning techniques and its efficiency in machine learning. A survey** | [**2nd International Conference on Data, Engineering and Applications (IDEA)**](https://ieeexplore.ieee.org/xpl/conhome/9163074/proceeding) | **Aug** | **2020** |  | **Conferences (SCOPUS)** |  |
| **4** | **Dr. Roopam Gupta** | **A Review on 5G Technology: A heterogeneous Architecture, OSI protocol model and future Challenges** | **GIJET** | **July** | **2020** | **6** | **Scopus** |  |
| **5** | **Dr. Roopam Gupta** | **Investigation on Error-Correcting Channel Codes for 5G New Radio** | **CIS 2020: Congress on Intelligent Systems** | **June** | **2021** |  | **Conferences (SCOPUS)** |  |
| **6** | **Dr. Roopam Gupta** | **A survey of network intrusion detection using machine learining techniques.** | **Machine learning and data mining for emerging trend in cyber dynamics** |  | **2021** |  | **Springer - scopus indexed** |  |
| **7** | **Dr. Roopam Gupta** | **A Comparative study on single image Dehazing using convolutional Neural Network** | **Springer, Smart Innovation, System & Techniques** |  | **2021** |  | **Smart computing techniques and applications - Scopus Indexed** |  |
| **8** | **Dr. Asmita A. Moghe** | **Production resdy 8Environment For HLS Player Using FFMPEG with Automation on S3 Bucket Using Ansible** | **International Conference on Data Engineering & Applications (IDEA), 28-29 Feb 2020.** | **Aug** | **2020** |  | **Conferences (SCOPUS)** |  |
| **9** | **Dr. Asmita A. Moghe** | **A Comparative study on Devanagri Character Recognition** | **4th International Conference on Smart Computing & Informatics (SCI 2020),** | **October** | **2020** |  | **Conferences** |  |
| **10** | **Dr. Asmita A. Moghe** | **A Comparative Study on Single Image De-Hazing Using Convolutional Neural Network** | **International Conference SCI 2020** | **October** | **2020** |  | **Conferences** |  |
| **11** | **Dr. Asmita A. Moghe** | **Intelligent Healthcare: An Approach Towards Wellbeing,** | **International Conference on Machine Intelligence and Smart Systems (MISS 2020)** | **Sep** | **2020** |  | **Conferences (SCOPUS)** |  |
| **12** | **Dr. Asmita A. Moghe** | **A Review of LiFi Technology** | **5th IEEE ICRAIE (International Conference on Recent Advances & Innovations in Engineering)** | **Feb** | **2021** |  | **Conferences (SCOPUS)** |  |
| **13** | **Dr. Asmita A. Moghe** | **A brief review of Industry 4.0: Challenges and Applications** | **10th IEEE International Conference on Communication Systems & Network Technologies (CSNT )** |  | **2021** |  | **Conferences** |  |
| **14** | **Dr Sachin Goyal** | **An Optimized Communication Scheme for Energy Efficient and Secure Flying Ad-hoc Network (FANET),** | **Wireless Personal Communications.** | **April** | **2021** |  | **SCI** |  |
| **15** | **Dr Sachin Goyal** | **Immutable DNA sequence data transmission for next generation bioinformatics using blockchain technology** | **2nd International Conference on Data, Engineering and Applications, IDEA 19** | **Aug** | **2020** |  | **Conferences (SCOPUS)** |  |
| **16** | **Dr Sachin Goyal** | **Sentiment Study by Supervised Machine Learning** | **High Technology Letters,** | **October** | **2020** | **26** | **Scopus** | 1006-6748 |
| **17** | **Dr Sachin Goyal** | **Routing and optimization schemes in flying Ad Hoc network (FANET)** | **2nd International Conference on Data, Engineering and Applications, IDEA 19** | **Aug** | **2020** |  | **Conferences (SCOPUS)** |  |
| **18** | **Dr Sachin Goyal** | **Comparing Physiological Feature Selection Methods for Emotion Recognition** | [**2018 International Conference on Advanced Computation and Telecommunication (ICACAT)**](https://ieeexplore.ieee.org/xpl/conhome/8931668/proceeding) | **December** | **2020** |  | **Conferences** |  |
| **19** | **Dr Sachin Goyal** | **A Survey of Image Classification and Pattern Recognition using Deep Learning”** | **High Technology Letters,** | **November** | **2020** | **26** | **Scopus** | 1006-6748 |
| **20** | **Dr Sachin Goyal** | **Feature Optimization of Digital Image Watermarking using Machine Learning Algorithms** | **International Conference on Machine vision and Augemted Intelligence** | **Feb** | **2021** |  | **Conferences (SCOPUS)** |  |
| **21** | **Dr Sachin Goyal** | **Density Assessment for breast cancer diagnosis using deep learning on mammographic image** | **International Conference on Machine vision and Augemted Intelligence( MAI 2021)** | **Feb** | **2021** |  | **Conferences (SCOPUS)** |  |
| **22** | **Dr Anjana Pandey** | **Immutable DNA sequence data transmission for next generation bioinformatics using blockchain technology** | **2nd International Conference on Data, Engineering and Applications, IDEA 19** | **Aug** | **2020** |  | **Conferences (SCOPUS)** |  |
| **23** | **Dr Anjana Pandey** | **A proposed model for automation of detection and classification of brain tumor by deep learning** | **2nd International Conference on Data, Engineering and Applications, IDEA 19** | **Aug** | **2020** |  | **Conferences (SCOPUS)** |  |
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| **25** | **Dr.Anjana Pandey** | **Hue based Plant Leave Disease Detection and Classification using Machine Learning** | **IEEE conference on Comunication System and Network** | **June** | **2021** |  | **SCOPUS** |  |
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| **29** | **Dr. Mahesh Pawar** | **Smart Predictive Framework for Patient Monitoring and Recommendation using Deep Learning Model with Novel Cost Optimization Function** | [**https://link.springer.com/chapter/10.1007%2F978-981-15-7078-0\_67**](https://link.springer.com/chapter/10.1007%2F978-981-15-7078-0_67) | **October** | **2020** |  | **SCOPUS** |  |
| **30** | **Dr. Mahesh Pawar** | **Novel framework based on deep learning and cloud analytics for smart patient monitoring and recommendation (SPMR)** | [**Journal of Ambient Intelligence and Humenized Computing**](https://doi.org/10.1007/s12652-020-02790-6) | **Feb** | **2021** |  | **SCI/Web of Science** |  |
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| **14** | **Dr. Mahesh Pawar** | **Non Convex Clustering on Datasets with missing values and noise using EMBDBSCAN & EMBOPTICS** | [**2018 International Conference on Computing, Power and Communication Technologies (GUCON)**](https://ieeexplore.ieee.org/xpl/conhome/8671767/proceeding) | **March** | **2019** |  | **Conference (SCOPUS)** |  |
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| **29** | **Dr. Mahesh Pawar** | **Model to Analyse Network and for Proactive node Management Implemented in Hadoop environment** | **International Journal of Advanced Research in Computer Science** |  | **2017** | **8** | **UGC** |  |
| **30** | **Dr. Mahesh Pawar** | **A Survey on Accelerated Mapreduce for Hadoop** | **Oriental Journal of Computer Science and Technology** |  | **2017** | **10** | **UGC** |  |
| **31** | **Dr. Mahesh Pawar** | **Performance Evaluation of Classification Algorithm J48 on Heart attack and its diseases** | **JETIR** | **June** | **2018** | **5** | **UGC** |  |
| **32** | **Dr. Mahesh Pawar** | **A Literature Survey on Security Issues of WSN and Different Types of Attacks in Network** | **INDIAN JOURNAL OF COMPUTER SCIENCE AND ENGINEERING** |  | **2017** | **8** |  |  |
| **33** | **Dr. Mahesh Pawar** | **The Rising Flood of Big Data and Its Analysis** | **International Journal of Advanced Research in Computer Science** |  | **2017** | **8** |  |  |
| **34** | **Dr. Mahesh Pawar** | **Handling Knowledge in Indian IT Organizations (Document)** | **University of Cincinnati** |  | **2017** |  |  |  |
| **35** | **Dr. Mahesh Pawar** | **A HADOOP BASED COLLABORATIVE FILTERING RECOMMENDER SYSTE M ACCELERATED ON GPU USING OPENCL** | **INTERNATIONAL JOURNA L OF ENGINEERING SCI ENCES & RESEARCH TECHNOLOGY** |  | **2017** | **6** |  |  |
| **36** | **Dr Ratish Agarwal** | **A Practical Approach of Network Simulation** | **Privacy and Security Policies in Big Data** |  | **2017** |  | **WOS** |  |
| **37** | **Dr Ratish Agarwal** | **Location wise opinion mining of real time twitter data using hadoop to reduce cyber crimes** | **2nd International Can'(erence an Data, Engineering and *Applications, IDEA 2020,*** |  | **2020** |  | **Conferences (SCOPUS)** |  |
| **38** | **Dr Ratish Agarwal** | **An Enhancement of BAT Algorithm using Diversity function for Routing optimization in WSN** | **International Journal of Control Theory and Applications** |  | **2017** | **10** | **SCOPUS** | **0974-5572** |
| **39** | **Dr Ratish Agarwal** | **Prediction model of Diabetes Drug Using Hive and R** | **International Journal of Control Theory and Applications** |  | **2017** | **10** | **SCOPUS** | **0974-5572** |
| **40** | **Dr Ratish Agarwal** | **A Framework for Heterogeneous Environment to Build an Application using CORBA** | **International Journal of Control Theory and Applications** |  | **2017** | **10** | **SCOPUS** | **0974-5572** |
| **41** | **Dr Ratish Agarwal** | **Study of major issues of cluster-head gateway switch routing in MANET,** | **International Journal of Creative Research Thoughts (IJCRT)** | **Feb** | **2018** | **6** | **UGC** | **2320-2882** |
| **42** | **Dr Ratish Agarwal** | **A Review Paper on Digital Watermarking Techniques for security Application,** | **International Journal of Creative Research Thoughts (IJCRT)** | **April** | **2018** | **6** | **UGC** | **2320-2882** |
| **43** | **Dr Ratish Agarwal** | **A review of MANET: Several issues in routing protocol,** | **International Journal of Creative Research Thoughts (IJCRT),** | **April** | **2018** | **6** | **UGC** | **2320-2882** |
| **44** | **Dr Ratish Agarwal** | **ReeMiE - Intelligent Personal Assistant,** | **International Journal for Research in Applied Science &Engineering Technology,** | **April** | **2018** | **6** | **UGC** | **2321-9653** |
| **45** | **Dr Ratish Agarwal** | **Live Attendance System via Face Recognition,** | **International Journal for Research in Applied Science & Engineering Technology,** | **April** | **2018** | **6** | **UGC** | **2321-9653** |
| **46** | **Dr Ratish Agarwal** | **SENTIMENTAL ANALYSIS ON THE PERFORMANCE OF DOMESTIC FLIGHTS IN AN AIRLINE COMPANY,** | **International Journal of Creative Research Thoughts** | **April** | **2018** | **6** | **UGC** | **2320-2882** |
| **47** | **Dr Ratish Agarwal** | **Twitter Sentiment Analysis using Hive,** | **International Journal for Research in Applied Science & Engineering Technology** | **April** | **2018** | **6** | **UGC** | **2321-9653** |
| **48** | **Dr Ratish Agarwal** | **REVIEW OF ENERGY MINIMIZATION TECHNIQUES IN WIRELESS SENSORS NETWORK,** | **International Journal of Engineering Technologies and Management Research,** | **February** | **2018** | **5** | **UGC** | **2454-1907** |
| **49** | **Dr Ratish Agarwal** | **Real time twitter sentiment analysis for product reviews,** | **JASC** | **June** | **2018** | **5** | **UGC** | **0076-5131** |
| **50** | **Dr Ratish Agarwal** | **A Survey paper on sentiment analysis of product reviews** | **JETIR** | **June** | **2018** | **5** | **UGC** | **2349-5162** |
| **51** | **Dr Ratish Agarwal** | **Stocastic multicriteria acceptability based routing technique for manet,** | **IJARCS** | **August** | **2017** | **8** | **UGC** | **0976-5697** |
| **52** | **Dr Ratish Agarwal** | **A REVIEW ON PERFORMANCE EVALUATION OF SQL-ON-HADOOP SYSTEMS,** | **International Journal of Science & Engineering Development Research** | **June** | **2018** | **3** |  |  |

 All relevant details shall be mentioned.

**5.8.2. Sponsored Research (20)**

Funded research from outside:

(Provide a list with Project Title, Funding Agency, Amount and Duration) Funding Amount (Cumulative during CAYm1, CAYm2 and CAYm3): Amount > 50 Lakh**–** 20 Marks,

Amount > 40 and < 50 Lakh**–** 15 Marks,

Amount > 30 and < 40 Lakh**–** 10 Marks,

Amount > 15 and < 30 Lakh**–** 5 Marks,

Amount < 15 Lakh**–** 0 Marks

**2019-20 (CAYm1)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Title** | **Duration** | **Funding Agency** | **Amount(in Rupees)** |
| Automation of Brain Tumor Detection through the application of Deep Learning techniques | 18 MONTH | NPIU | 300000.00 |
| An optimized communication scheme for energy efficient and secure flying Ad-hoc Network | 18 MONTH | NPIU | 300000.00 |
| IoT controlled Railway Gate System with ML Object Detection approach | 18 MONTH | NPIU | 300000.00 |
| A Machine Learning Model for Fake News Detection to Reduce Miss Information Risk on Social Media | 18 MONTH | NPIU | 300000.00 |
|  |  | Total | 120000.00 |

**2018-19 (CAYm2)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Title** | **Duration** | **Funding Agency** | **Amount(in Rupees)** |
| Digital India Awareness Program | 12MONTH | MPCST | 50000.00 |
|  |  |  | Total Amount(X): 50000.00 |

**5.8.3. Development activities (15)**

Provide details:

* Product Development
* Research laboratories
* Instructional materials

**Product Development**

**Patents**

1. Title of the invention : IOT CONTROLLER UNMANNED RAIWAY GATE SYSTEM.

Publication Date : 04/12/2020

Name of Inventor : 1)Dr. Sachin Goyal 2)Mr. Deepak Rathore 3) Dr. MEGHA KAMBLE

Patent application number : 202011047696 A

2. Title of the invention: SYSTEM OF SMART HELMET FOR MONITORING HEALTH OF A TWOWHEELER RIDER AND OCCURRENCE OF COLLISION

Publication Date : 02/12/2019

Name of Inventor : 1)Dr. Sanjeev Sharma 2)Dr. Piyush Shukla 3) Dr. Prashant Kumar Shukla 4) Dr. Mahesh Pawar 5) Dr. Poonam Sharma 6) Dr. Yadunath Pathak

Patent application number :

3. Title of the invention: METHOD OF LOAD DISTRIBUTION IN FOG DISTRIBUTION BALANCING IN FOG CLOUD COMPUTING ARCHITECTURE USING DATA FLOW ACCELERATION

Publication Date : 01/11/2019

Name of Inventor : 1) Dr. Piyush Shukla 2) Dr. Prashant Kumar Shukla 3)Dr. Neeraj Kumar Rathore 4)Dr. Neelesh Kumar Jain 5) Dr. Rajeev Pandey 6) Dr. Mahesh Pandey 7) Dr. Anoop Kumar Chaturvedi 8) Dr. Poonam Sharma 9) Mr. Jashwant Samar 10) Mr. Manish Mishra

Patent application number :

4. Title of the invention: SYSTEM FOR POWER TRANSFER BETWEEN CONSUMER ELECTRONICS DEVICES (CELL PHONES) THROUGH DOUBLE-HEADED MICRO USB CABLE.

Publication Date : 01/02/2019

Name of Inventor : 1)Dr. Sachin Goyal 2)Dr. Ratish Agrawal 3)Dr. Piyush Kumar Shukla 4)Shri Manish Kumar Ahirwar

Application No.201921001128 A

5. Title of the invention: THE INTERNET OF THINGS(IOT) BASED POST EFFECTIVE AND SIMPLE SOLUTION FOR ENERGY ROBBERY FINDING AND ERROR ANALYSIS.

Publication Date : 01/10/2021

Name of Inventor : 1) Arumugam Ranjith 2) S. Venkatasubramanian 3) Prof. Arpit Namdev 4) Dr. Vijendra kumar mourya 5) Raju raju

Application No.202141042831

6. Title of the invention : DESIGN AND IMPLEMENT OF PENCIL DRAWING ROBOT USING PYTHON PROGRAMMING LANGUAGE

Publication Date : 01/10/2021

Name of Inventor : 1) Arumugam Ranjith 2) Dr. E. Bhuvaneshswari 3) Saurabh Gupta 4) Manoj Kumar Verma 5) Prof. Arpit Namdev

Application No.202141042814

7. Title of the invention : INDUSTRIAL GAS LEAKAGE SYSTEM USING GSM TECHNOLOGY.

Publication Date : 01/10/2021

Name of Inventor : 1) Arumugam Ranjith 2) Dr. Rachit Garg 3) Gaurav Purohit 4) Dr. M. Sukanya 5) Prof. Arpit Namdev

Application No.202141043269

8.Title of the invention: STEERING WHEEL WITH DIZZINESS DETECTION

Notification Date : 22/04/2022

Name of Inventor: 1) Rajesh Shukla 2) Anjana Pandey 3) Abhishek Dubey 4) Namita Shukla