



Govt of Jammu and Kashmir
SHAHEED HIMAYUN MUZZAMIL MEMORIAL
GOVERNMENT DEGREE COLLEGE, ANANTNAG
Khanabal, Anantnag-192101 (J&K) –INDIA
Department of Computer Applications



Departmental Profile

1. Name of the Department: Computer Applications

2. Year of establishment: 2002

3. Infrastructure details:

No. of rooms excluding Labs	No. of classrooms	No. of Labs	Museums	Departmental Library	List of Equipments	IT infrastructure	Remarks
04	01	03	Nil	Nil	Computer (68), Printer (4), Smartboards (5), UPS (3)	Same as list of equipments	-

4. Teaching Staff



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Name	Qualification	Professional development (FPDS, Refresher courses etc.)	Administrative roles	Publications	Links of Publications
Mr. Ab Qayoom Sofi	MCA, B level and PhD Submitted	Workshop on “Introduction to Embedded Systems and Robotics ” from 25 th and 26 th August 2025. Refresher Course in ICT (Interdisciplinary) from 13 th Nov 2024 to 29 Nov. 2024 Subject Refresher Course in ICT and Computer Applications from 17 February to 01 March 2024. Refresher Course in	HoD Computer Applications since 2012. Liaison officer for IMCA Cluster University, Sgr. Coordinator IMCA course at CUS, sgr. Coordinator, Convener, Co-Convener, member of various committees including mainly MOOCS,	1. An Effective Deep Learning-Based Ensemble Model for Heart Diseases Prediction (SCIE Journal- Q1 Rank). 2. Applications of GNNs and m-Health for Disease Tracking (Book Chapter). 3. A Comprehensive Analysis of Deep Learning Techniques for Effective Heart Disease Prediction. 4. A comparative analysis of machine learning techniques for effective heart disease prediction.	i. https://link.springer.com/article/10.1007/s00500-025-10907-2 ii. https://www.igi-global.com/chapter/application-of-gnns-and-m-health-for-disease-tracking/323827 iii. https://pubs.aip.org/aip/acp/article-abstract/2782/1/020032/2896579/A-comprehensive-analysis-of-deep-learning?redirectedFrom=fulltext iv. https://books.google.co.in/books?id=FyfdEAAAQBAJ&pg=



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	Research Methodology (Multidisciplinary) from 18th October 2022 to 02 Nov 2022. One Week National Level Faculty Development Program On Amazon Web Services from 22nd Aug 2022 to 27th Aug 2022. Faculty Development Programme on “Advanced Concepts for developing MOOCS” from 02-07-2020 to 17-07-2020. Besides many other FDPs and Refresher courses.	ICT/Website, IQAC, development, discipline committees etc. since 2012.		PR4&lpg=PR4&dq=DOI:+10.1201/9781003405573&source=bl&ots=tM62MuEXqV&sig=ACfU3U2kHR2O9I6pmVfpTR-_QW3s8qVVDg&hl=en&sa=X&ved=2ahUKEwi6vKCoooKCAxXxSGwGHbuAA_YQ6AF6BAgJEAM#v=onepage&q=DOI%3A%2010.1201%2F9781003405573&f=false
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Mr. Tahir Hussain Bhat	MCA, NET	Refresh course in Dec- 2024	Different Roles in various college Committees	-	-
Mr. Irshad Ahmad Lone (On deputation to GDC Ashmuqam)	MCA, NET		Different Roles in various college Committees	-	-
Dr. Tawseef Ahmad Teli	PhD	04-week 76th General Orientation Programme conducted by Human Resources Development Centre at University of Kashmir, Srinagar w.e.f 6th Sep.2017 to 10th Oct. 2017. 7-day National Faculty Development programme on "Internet of things-applications", from 27 January to	Course coordinator for Refresher Course in ICT (Interdisciplinary) organised by UGC - Malaviya Mission Teacher Training Centre, University of Kashmir, Srinagar from 13th	- Hybrid Heart Diseases Prediction Model using Data Mining Techniques. International Journal of Scientific Research in Computer Science Applications and Management Studies, 8(1). - Prediction of Heart Diseases Using Decision Tree and Neural Network Data Mining Techniques-A Review. International Journal of Advance Engineering and Research Development, 5(01). - A fuzzy based local minima	



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		02" February, 2018, organised by Amar Singh College in collaboration with EDC IIT. 3. Two Weeks Faculty Development Programme on "Advanced Concepts for Developing MOOCS" from July-02 to July-17 2020 at Teaching Learning Centre, University of Delhi. 4. Two Weeks Faculty Development Programme on Information Communication ^[1] Technology and Modern Education: The Way Forward" from March-02 to March-17 2020 organized by Coordination cell Higher Education	to 29th November 2024. ii.Coordinator various initiatives including e-yantra, digital initiative etc	avoidance path planning in autonomous robots. International Journal of Information Technology, 13(1), 33–40. 4. Security concerns and privacy preservation in blockchain based IoT systems: Opportunities and challenges. 5. Consensus algorithms in blockchain-based cryptocurrencies. 2021 International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), 1–6. IEEE. 6. Machine learning for classification analysis of intrusion detection on NSL-KDD dataset. Turkish Journal of Computer and Mathematics Education, 12(10), 2286–2293. 7. HIBE: hierarchical identity-based encryption.	
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		Department, Government of Jammu and Kashmir at Govt. SPMR. College of Commerce, Jammu. 5. Three-week National Online Hands-on Training on Machine Learning from 15-12-2020 to 03-01-2021 organized by SKUAST. 6. Two Week Subject Refresher course in Teacher Education from 21-08-2021 to 04-09-2021 organized by UGC HRDC AMU Aligarh. 7. One-week Faculty Development Program On "Amazon Web Services" During the period of 22nd August 2022 to 27th		In Functional Encryption (pp. 187–203). Springer International Publishing Cham. 8. Ensuring Secure Data Sharing in IoT Domains Using Blockchain. In CYBER SECURITY AND DIGITAL FORENSICS (pp. 205–219). scrivener publishing with wiley. 9. A Comparative Study on Various Data Mining Techniques for Early Prediction of Diabetes Mellitus. 10. Effect of pre-processing techniques in predicting diabetes mellitus with focus on artificial neural network. Advances and Applications in Mathematical Sciences, 21(8), 4761–4770. 11. Fuzzy Logic And Medicine With Focus On Cardiovascular Disease	
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		August 2022 organized by Dept. of Computer Applications, Amar Singh College, Srinagar in collaboration with brainovision solutions indiaptvt.ltd& all india council for technical education - aicte. 8. Govt Officials training programme on “Blockchain Technology” from 14-03-2022 to 28-03-2022 under the “FutureSkills Prime” programme organized by NIELIT in collaboration with CDAC. 9. International Virtual One-Week Faculty Development		Diagnosis. 5th International Conference on Computing for Sustainable Global Development. 12. Blockchain in healthcare: challenges and opportunities. Proceedings of the International Conference on IoT Based Control Networks & Intelligent Systems-ICICNIS. 13. A dnn model for diabetes mellitus prediction on pimadataset. INFOCOMP Journal of Computer Science, 21(2). 14. Deep Learning for Bioinformatics. In Applications of Machine Learning and Deep Learning on Biological Data (pp. 181–196). Auerbach Publications. 15. Application of ML and DL on Biological Data. In Applications of Machine Learning and Deep Learning	
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		Program on Tools and Techniques in Research Organized by Amar Singh College, Cluster University Srinagar, Gogji Bagh, Srinagar, Jammu and Kashmir, India in collaboration with Cape Comorin Trust, India from 07-13 March 2022. 10. Two-Week Interdisciplinary Refresher Course in “ADVANCED RESEARCH METHODOLOGY” from 27 October - 10 November 2022 and obtained Grade A from Teaching Learning Centre, the Ramanujan		on Biological Data (pp. 159–180). Auerbach Publications. 16. Iot implementation in India: A complex decision process using gra/ahp. 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom), 773–778. IEEE. 17. Feature selection, importance and missing value imputation in diabetes mellitus prediction. 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom), 914–919. IEEE. 18. Attention-based Conditional VAE for Lung Cancer Drug Generation. 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom), 924–928. IEEE. 19. A Polymorphous Energy Efficient Resource Allocation	
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		College University of Delhi in collaboration with Progressive Education Society's modern law college punemaharashtra under the aegis of ministry of education pandit madanmohanmalviy a national mission on teachers and teaching. 11. Inter-Disciplinary two-week Refresher Course in "Managing Online Classes & Co-creating MOOCS" from 05 – 19 August, 2023. 12. Two-week UGC Sponsored Refresher Course Indian Knowledge		Approach (PEERA) in Cloud Computing. 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom), 920–923. IEEE. 20. MANET routing protocols, attacks and mitigation techniques: A review. International Journal of Mechanical Engineering, 7(2), 1468–1478. 21. A comparative study on various machine learning techniques for brain tumor detection using MRI. In Global Emerging Innovation Summit (GEIS-2021) (pp. 125–137). Bentham Science Publishers. 22. Big Data and deep learning in healthcare. In Applications of Artificial Intelligence, Big Data and Internet of Things in Sustainable Development (pp. 145–160). CRC Press.	
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		Tradition, Ethics & Human Values (Interdisciplinary) from 28" February, 2024 to 13" March, 2024 from MMTTC, Jawahar Lal Nehru University New Delhi. 13. Refresher Course in "Indian Knowledge Tradition, Ethics & Human Values (Interdisciplinary) held from 28 February, 2024 to 13 March, 2024, MMTTC, Jawahar Nehru University. 14. NEP 2020 Orientation & Sensitization Programme under Malaviya Mission		23. A robust DNN-based model for diabetes mellitus. In Recent Advances in Computing Sciences (pp. 191–195). CRC Press. 24. In-depth analysis of key task scheduling algorithms and inception of real-time EPSO-BAT model. In Recent Advances in Computing Sciences (pp. 147–151). CRC Press. 25. Convolutional autoencoders-based model for De-novo breast anticancer drug development. In Recent Advances in Computing Sciences (pp. 28–32). CRC Press. 26. Software security. In System Reliability and Security (pp. 219–229). Auerbach Publications. 27. Deepfakes: benefits, threats, and combat strategies. In Recent Advances in	
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		Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by the Central University of Jammu from 27th April 2024 to 04 May 2024. 15. seven days Faculty Development Programme on 'Exploring Large Language Models: Innovations, Applications & Future Prospects' of 40 hours duration, jointly organized by Department of CSE, SSCSE, Sharda University		Computing Sciences (pp. 7–12). CRC Press. 28. Early Prediction of Diabetes Mellitus on Pima Dataset Using ML And DL Techniques. Journal of Army Engineering University of PLA ISSN, 2097, 0730. 29. An intelligent approach for de-novo drug discovery: a systematic review. Journal of Army Engineering University of PLA ISSN, 2097, 0730. 30. Path Planning in Autonomous Mobile Robots. Computing for Sustainable Global Development (INDIACom), 2017 4th International Conference On, 7080–7087. 31. Prioritizing factors for the adoption of IoT-based smart irrigation in Saudi Arabia: a GRA/AHP approach. Frontiers in Agronomy, 6, 1335443. 32. IoT performance assessment.	
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		and the Electronics and ICT Academy (Phase-II), Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, during May 26 - June 02, 2025. week-long workshop on “Embedded Systems/IoT”, organised by the Department of Computer Applications, Govt. Degree College Anantnag in		In Internet of Things Vulnerabilities and Recovery Strategies (pp. 259–270). Auerbach Publications. 33. De novo molecular generation augmentation for drug discovery using deep learning approaches: A comparative study of variational autoencoders. Journal of Angiotherapy, 8(10), 1–13. 34. Book. Internet of Things applications and technology. CRC Press. 35. Applicability and Integration of Blockchain in Healthcare. In Blockchain and Machine Learning Innovations: Breaking Barriers with Distributed Intelligence (pp. 187–212). Springer Nature Switzerland Cham. 36. An effective deep learning- based ensemble model for heart disease prediction. Soft Computing, 29(21), 5893–	
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		collaboration with the National Institute of Electronics & Information Technology, Srinagar, w.e.f. 24-11-2025 to 29-11-2025.		5923.	
Prof. Ikhlaas Ahmad Sheikh	MCA, JRF, JK SET				
Mr. Sajad Ahmad	MCA				
Dr. Ubhaida Aslam	PhD				
Ms. Misbah Nazir	MCA, NET				
Ms. Ulfat Irshad	MCA				
Mr. Umar Nisar	MCA				



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Mr. Mohd Amin Dar	MCA				
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5. Supporting staff

Name	Qualification	Designation
Dr. Aiyatullah Shah	M Sc, NET-JRF (UGC-CSIR) and PhD (AcSIR, Pusa, New Delhi)	Jr. Lab Assistant
Mrs. Ulfat Jan	BA	LFE

6. Student enrolment

Semesters	1 st Sem	3 rd Sem	5 th
Major	80	78	68
Minor	120	14	17
Total	200	92	85

7. Student teacher ratio: 30:1

8. Extension activities: (of last 5 years)

Name	Date of activity	Number of students	Venue	Remarks
Git-Hub Education and Tech Communities.	17-10-2024	100	Conference hall	



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Python Programing (Online Skill Course)	21-28 Oct, 2024	150	Online	
Software Development Career Counseling	23-11-2024	100	Conference hall	
Scrapyard Anantnag (Hackathon) in collaboration with Hack Club, US	15-03-2025	80	Department	
One-Week Bootcamp on Blockchain Technology	26 – 30 May, 2025	75	Department	
Blockchain Technology Career Counseling Session	30-05-2025	110	Conference hall	
One-Day Professional Development Programme for Non-Teaching Staff	22-07-2025	20	Department	
Departmental Alumni meet 2025	20-09-2025	100	Department	
Workshop on Cyber Hygiene	27-09-2025	100	Department	
One-Week Workshop on Embedded Systems and Internet of Things (IoT)	24-29 November, 2025	60	Department	
Two-Day AI Buildathon	28-29 April, 2026	100	Department	

9. Results and student progression (of last 5 years)

https://docs.google.com/spreadsheets/d/1B1Ea3i-UspSIXNVJjS_ncMZdTjDxutj7f1A8jqcVHec/edit?usp=drivesdk



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