# **CURRICULUM VITAE**

# Dr. Hakeem Aejaz Aslam

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#### **CAREER OBJECTIVE:**

To broaden my vision by continuous learning and taking challenging assignments, my dream is to do something innovative, dynamic and resourceful teaching with a genuine interest in doing research work.

# PROFESSIONAL QUALIFICATIONS:

Ph.D	in	Electronics	&	Communication	Engineering	from	Rayalaseema
Unive	rsit	y, Kurnool, <i>A</i>	\nd	hra Pradesh in the	year <b>2024-20</b> 2	<b>25</b> .	

- □ Master of Technology (M-Tech) in Communications & Signal Processing from
   S.K. University, Anantapur, A.P in the year 2004-2006 with aggregate percentage 73%.
- ☐ Bachelor of Engineering(B.E) in Electronics and Communication

  Engineering (ECE) from Visvesvaraya Technological University, Karnataka
  in the year 2000-2004 with aggregate percentage 63%.

# **ACADEMIC QUALIFICATIONS:**

- ☐ Passed Intermediate from Board of Intermediate Education, AP with percentage 77%
- ☐ Passed SSC from Board of Secondary Education, AP with percentage 79.5%

#### **RESEARCH OBJECTIVE:**

The following are the research objectives:

- Optimized and efficient techniques to propose for the detection of Tumors using
   Segmentation and Enhancement techniques in Biomedical Images.
- ☐ To propose a dynamic and self-adjusting cluster centre algorithm for the detection of Tumors in the Biomedical Images.
- ☐ To manage and differentiate the affected and not affected part of the organ with Tumor by using different Color image processing techniques.
- ☐ To calculate different parameters after the detection of the Tumor such as Computation time, Accuracy, Precision, Sensitivity, Efficiency factors, Success Rate, F-factor etc from the biomedical images.

#### M-Tech DISSERTATION:

# Title: "An Enhanced BMP Image Compression Using Jpeg Standard With DSP Processor"

**Jpeg** is an image compression standard which gives user ability to take an image and compress it with little or no noticeable quality degradation. The original BMP image is taken through a series of steps. In this application, sequential based encoding is used. On each 8\*8 block, Discrete Cosine Transform is applied followed by Huffman coding and Run length encoding. As a result of which high compression is achieved.

#### **B.E PROJECT:**

# "Telephone Remote Controlled Switch Using Microcontroller"

This project basically serves the purpose of controlling any electrical device through MICROCONTROLLER using TELEPHONE LINE. The user has to put the phone into the number to which the unit is connected. After 5-6 rings, the unit responds with a short tone. On receiving it, he has to enter his security code of 4 digits. In case, the code entered is wrong, he is warned by an error tone and he has two more

chances like these to do so. If he fails on the third attempt, the unit logs OFF. If the security code entered is right, then the unit responds with an acceptance tone, after which he can switch channels 'ON' or 'OFF'.

# PROFESSIONAL EXPERIENCE:

**Total Teaching Experience - 20 Years** 

Working as an Sr.ASSISTANT PROFESSOR in the department of Electronics and communication Engineering, Muffakham Jah college of Engineering Technology, Hyderabad, Telangana from June 2006 to till date.

# **SKILL SET & ACADEMIC INTERESTS:**

Experience in teaching various subjects of Osmania University to B.E students of Electronics and communication Engineering (ECE) are as follows:

	Image & Video Processing
	Artificial Neural Networks
	Fuzzy Logic & Applications
	Microprocessors & Microcontrollers
	Electronic Measurements & Instrumentation
	Computer Organization & Architecture
	Computer Vision & Pattern Recognition
B.E st	Experience in handling various practical laboratories of Osmania University to udents of Electronics and communication Engineering (ECE) are as follows:
	Microprocessor & Microcontroller Lab
	Embedded Systems Lab
	Electronic Devices & Automation Lab
	Digital Signal Processing Lab
	Basic Electronics Lab
	Electronic Workshop Lab

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gital Integrated Circuits Lab	INTE
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# ☐ Biomedical Image Processing

- ☐ Artificial Neural Networks
- ☐ Fuzzy Logic and Applications
- ☐ Embedded systems
- ☐ Internet of Things
- ☐ Machine Learning

#### PLACEMENT COORDINATOR:

➤ Working as a Placement Coordinator for Electronics & Communication Engineering Department from the Academic Year 2021-2022 till date.

#### **FACULTY ADVISOR:**

➤ Working as a Mentor (Faculty Advisor) for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by IIT, Delhi, from the Academic Year 2006-2007 till date.

#### LIST OF PATENTS:

- Filed and Published a Patent in the Field of INNOVATION on "PROTOTYPE
  FOR DETECTION AND CLASSIFICATION OF PANCREATIC TUMOR
  USING CNN FEATURE-BASED LLRBFNN MODEL", in the PATENT OF
  GOVERNMENT OF INDIA with Application Number-202341010490 on
  17th MAR 2023.
- Filed and Granted a Patent in the Field of INNOVATION on "A HYBRID SYSTEM AND METHOD FOR RETINAL BLOOD VESSEL

EXTRACTION USING WEIGHTED CONTRAST IMAGES", in the INTERNATIONAL PATENT OF AUSTRALIAN GOVERNMENT with Application Number-2021103991 on 30th MAR 2022 for EIGHT YEARS.

#### **REVIEWER:**

\* Reviewer for IEEE International Conference on Advances in Electronics, Communication, Computing & Intelligent Information Systems (ICAECIS-23) organized by Bangalore Institute of Technology in association with IEEE Bengaluru Section, Bengaluru held from 19th to 21st April, 2023.

# **NPTEL COURSES:**

**❖** Awarded certificate of 8-weeks NPTEL-AICTE Faculty Development Program for successfully completing the course on "Fuzzy Logic & Neural Networks", in MAR 2025.

#### LIST OF JOURNALS & CONFERENCES:

- □ Published an International Journal on "A Smart Notification System for Timely Reminders & Management" in International Journal of Engineering Technology Research and Management (IJETRM), in Vol-9 & Issue-6 with ISSN:2456-9348 in JUN 2025.
- □ Published an International Journal on "Patch-wise Hyperspectral Image Classification using Composite 3D-2D Convolutional Neural Network Feature Hierarchy" in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), in Vol-4 & Issue-9 with ISSN:2582-5208 in SEPT 2022.
- □ Published an International Journal on "Hyperspectral Image Classification using Deep Learning Techniques: A Review " in International Journal of Electronics & Communication Engineering (IJECE), in Vol-9 & Issue-6 with ISSN:2348-8549 in JUN 2022.

Published a Scopus, UGC Journal on "Brain Tumor Detection From MRI Dataset Using CNN With Python" in Journal of Huazhong University of Science and Technology (HST), in Vol-50 & Issue-6 with ISSN:1671-4512 in JUN 2021. Delished a Scopus Indexed International Journal & UGC Journal on "Artificial intelligence based Smart Parking System using Haar-Cascade Method" in Journal of Huazhong University of Science and Technology (HST), in Vol-50 & Issue-6 with ISSN:1671-4512 in JUN 2021. Dublished an International Journal on "Hand Gesture Recognition System for Deaf & Dumb" in International Journal of Multidisciplinary and Current Educational Research (IJMCER), in Vol-2 & Issue-4 with ISSN:2581-7027 in Page No:82-88 in JUL-AUG 2020. Published a Scopus Indexed International Journal on "An Efficient Key Data List for Enhancing Symmetric Read-Write Page Access" in TEST Engineering & Management, in Vol-82 with ISSN:0193-4120 in Page No:11276-11279 in Feb 2020 & also presented and published in ICCCEEE-2020 in JAN 2020. Dublished an International Journal on "Detection of Lung Tumor in MR Images using Modified Pillar K-Means Algorithm with Gabor Filter and Color Mapping", in International Journal of Science & Research (IJSR), Vol. 6, issue 4, APR 2017 with ISSN: 2319-7064. Published an International Journal on "Robust Contrast Enhancement using Gamma Correction & Contrast Stretching using Laplacian Pyramid for Detection of Microcalcification in Mammography" in International Journal of Engineering Research in Electronics & Communication Engineering (IJERECE), Vol.4, Issue 3, MAR 2017 with ISSN: 2394-6849.

☐ Presented a paper on "Robust Contrast Enhancement using Gamma Correction & Contrast Stretching using Laplacian Pyramid for Detection of Microcalcification in Mammography", in International Conference on Emerging Trends in Engineering, Science & Technologies (ICETEST-2017) in MAR 2017. Delished an International Journal on "Modified Pillar K-Means Algorithm" with Chessboard Distance & Accumulated Distance Metric for Centroid Designation to Detect Brain Tumors in MR Images", in International Journal of Advanced Research in Electrical, Electronics & Instrumentation Engineering (IJAREEIE), Vol.6, Issue 1, JAN 2017 with ISSN: 2278-8875. Delished an International Journal on "A New Approach to Image Segmentation for Brain Tumor detection using Pillar K-means Algorithm" in International Journal of Advanced Research in Computer Communication Engineering (IJARCCE) Vol. 2, Issue 3, MAR 2013 with ISSN (Online) 2278-1021. LIST OF FDPs, WORKSHOPS SHORT-TERM TRAINING PROGRAMS (STTP), SEMINARS & WEBINARS: ☐ Organised & Participated in a One-week Faculty Development Program on "From Awareness to Action: OBE Strategies and Practices" organized by the IQAC, MJCET from 10-03-2025 to 15-03-2025. Development Program on Participated in a One-week ATAL - Faculty Development Program on

"Advancements in Sustainable Energy Management & Environmental

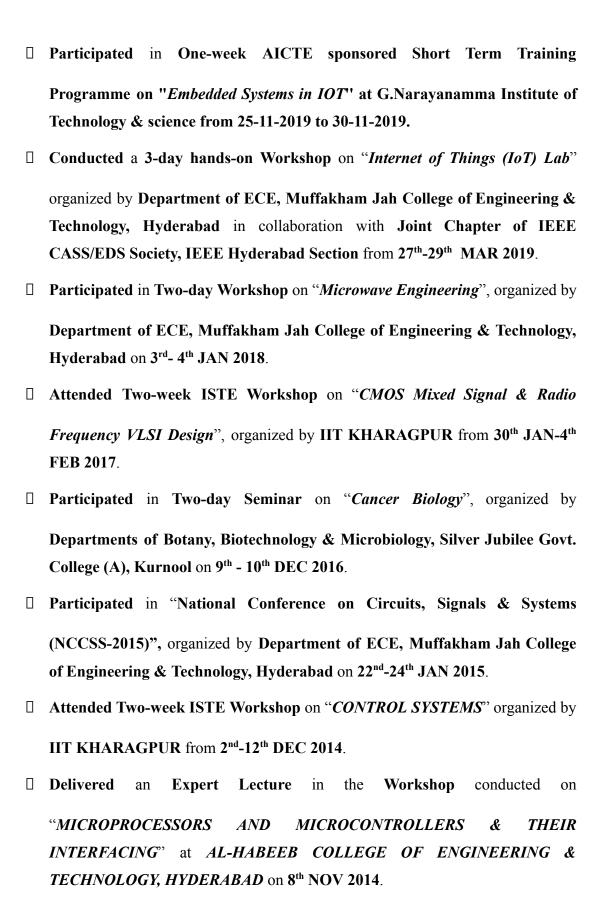
Protection" organized by the Maulana Azaad National Urdu University,

Polytechnic, Hyderabad from 06-01-2025 to 11-01-2025.

Organised & Participated in a 3-days ATAL - Faculty Development Program
on "Next Gen Communications" organized by the Department of ECE, MJCET from 18-07-2024 to 20-07-2024.
Participated in a 9-days Faculty Development Program on "Role of Artificial
Intelligence for Computer Vision and Medical Imaging Applications" organized by the Department of ECE, MJCET in coordination with NIT Warangal from 04-03-2024 to 12-03-2024.
Participated and successfully completed Cadence Training Course on
"Artificial Intelligence & Machine Learning Fundamentals", in Online mode on 11-08-2023.
Participated in a One-week Faculty Development Program on "Energy
Harvesting Technologies" organized by the Department of EEE in coordination with Institutes Innovation Council (IIC) at GCET in association with IEEE PES/IAS/PELS - jt Chapter and WiE AG IEEE, Hyderabad section from 27-02-2023 to 04-03-2023.
Participated in a One-week National level Faculty Development Program on
"Internet of Things - Industry 5.0" organized by the Department of IT, Sinhgad Institute of Technology, Lonavala from 20-02-2023 to 24-02-2023.
Participated in Two-day workshop on "CMOS Layout Design using
Microwind Tool" organized by Department of ECE, JNTUH in association with TechFLUENT Solutions Pvt. Ltd, Hyderabad on 02-09-2022 & 03-09-2022.
Participated in a 3-day Online Faculty Training Program on "5G Wireless
Communication Technology", organized by IEEE India Council from 28-07-2022 to 30-07-2022.

Participated in a One-week Faculty Development Program on "Data Science
using Python Programming" organized by Department of ECE, MJCET in collaboration with Delta Sigma Technologies from 07-03-2022 to 11-03-2022.
Participated in online training on "IEEE Xplore", organized by Muffakham
Jah College of Engineering & Technology on 28th OCT 2021.
Participated in One-week AICTE Online Short Term Training Program on
"Practical Exposure on Machine Learning & Data Science" organized by Department of ECE, GPREC (A), Kurnool, Andhra Pradesh from 13-09-2021 to 18-09-2021.
Participated in IEEE MTT-S Three-day Workshop on "Advances in
Microwave & Antenna Technology", organized by Department of ECE, Muffakham Jah College of Engineering & Technology, Hyderabad from 11 <sup>th</sup> -13 <sup>th</sup> SEPT 2021.
Participated in online workshop on "IPR-Patent Filing Procedure", organized
by Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Nagpur in Collaboration with Muffakham Jah College of Engineering & Technology on 08th SEPT 2021.
Participated in an International Level Regional Research Symposium on
"Problem Based Learning (RRSPBL-2021)", organized by RRSPBL on 19th & 20th JUN 2021.
Participated in an International Level Workshop on "Break Through AI:
Multidisciplinary Trends in Engineering & Technology, (RRSPBL-2021)", organized by RRSPBL on 19th JUN 2021.

Participated in National Level Webinar on "CANVAS TOOLS FOR BETTER
EDUCATION", organized by Department of Electronics & Communication Engineering, Vidya Jyoti Institute of Technology on 15th MAY 2021.
Participated in One-week AICTE Training And Learning (ATAL) Academy
Online FDP on "Wearable Devices" at G.Narayanamma Institute of Technology & science from 01-02-2021 to 05-02-2021.
Participated in IEEE Sponsored One-week Online Workshop on
"Computational Intelligence & Machine Learning Applications" organized by IEEE CIS/GRSS Jt.Chapter, Hyderabad Section during 18th -23rd DEC 2020.
Participated in AICTE Sponsored One-week Online Short term Training
Programme (STTP) on "SciLab: An Effective Open Source Tool for Computer Vision & Machine Learning" organized by Department of ECE, Vidya Jyoti Institute of Technology during 02 <sup>nd</sup> -07 <sup>th</sup> NOV 2020.
Participated in One-week National Level Online Faculty Development
Program on "MATLAB & Its Applications in Engineering using Machine Learning & Deep Learning", organized by Department of ECE G.P.R.E.C-Kurnool in Association with Math Works & Capricot Technologies Pvt Ltd. during 13-17 JUL 2020.
Participated in National Level Webinar on "ARM CORTEX M4", organized by
Starcom Information Technology Limited, Bangalore on 2 <sup>nd</sup> JUL 2020.
Participated in One-day IEEE Workshop on "Innovation & Design
Thinking", organized by IEEE Technology & Engineering Management Society Chapter in collaboration with IEEE MJCET Student Branch, Hyderabad in FEB 2020.



Attended One-day complimentary Seminar on "MATLAB & SIMULINK
FOR ENGINEERING EDUCATION" conducted by MathWorks India at PARK HOTEL, HYDERABAD on 11th AUG 2014.
Participated in Two-day Workshop on "MATHEMATICAL TECHNOLOGY
", organized by the Department of Mathematics, Muffakham Jah College of Engineering and Technology, HYDERABAD on 27th & 28th JUN 2014.
Participated in National Level Robotics Competition called ABU ROBOCON
2014 and won the BEST MANUAL ROBOT AWARD as Faculty Advisor held at Pune from 6 <sup>th</sup> March to 8 <sup>th</sup> MAR 2014.
Attended One-day Complimentary Seminar on "MATLAB & SIMULINK
FOR ENGINEERING EDUCATION" at PARK HOTEL, HYDERABAD on 26th AUG 2013.
Attended Two-week ISTE Workshop on "ANALOG ELECTRONICS"
organized by IIT KHARAGPUR from 4 <sup>th</sup> -14 <sup>th</sup> JUN 2013.
Participated in a Two-day ISTE workshop on "AAKASH FOR EDUCATION"
conducted by IIT BOMBAY on 10th & 11th NOV 2012.
Attended One-day Workshop on "SELECTED TOPICS IN MEDICAL
IMAGING" organized by OSMANIA UNIVERSITY at R & T Unit for Navigational Electronics on 18th DEC 2012.
Participated in Two-day Workshop on "HETEROGENEOUS COMPUTING:
PLATFORM, TOOLS AND APPLICATIONS" conducted by UNIVERSITY COLLEGE OF ENGINEERING at OSMANIA UNIVERSITY, HYDERABAD under TEQIP in collaboration with AMD (India) on 31st AUG and 1st SEPT 2012.

Attended Two-week ISTE Workshop on "INTRODUCTION TO
RESEARCH METHODOLOGIES" organized by IIT BOMBAY in 2012.
Attended Two-day ISTE Workshop on "EFFECTIVE WRITING
CONFERENCE PAPERS" organized by IIT BOMBAY in 2012.
Attended Two-week ISTE Workshop on "SOFTWARE DEVELOPMENT
TECHNIQUES FOR ENGINEERS AND SCIENTISTS" organized by IIT BOMBAY in 2011.
Attended Two-week ISTE Workshop on "BASIC ELECTRONICS" organized
by IIT BOMBAY in 2011.
Organized Three-day National Level Workshop on "RECENT TRENDS IN
VLSI DESIGN" from 18th-20th March 2010.
Participated in Two-week Faculty Updation Training on "EMBEDDED
SYSTEM PROGRAMMING" organized by C-DAC, HYDERABAD in 2010.
Participated in One-day Workshop on "8051 MICROCONTROLLER"
conducted at JNTUH COLLEGE OF ENGINEERING, HYDERABAD on 17th April 2010.
Participated in One-day Workshop on "PROGRAMMABLE SYSTEM ON
CHIP" conducted at Department of ECE, Muffakham Jah College of Engineering and Technology, HYDERABAD on 22 <sup>nd</sup> Dec 2010.
Participated in Two-day Workshop on "NEURAL NETWORKS & FUZZY
LOGIC" conducted at Department of EEE, Muffakham Jah College of Engineering and Technology, HYDERABAD on 20th-21st Feb 2009.

	Participated in Three-day Workshop on "IMAGE PROCESSING & ITS
	APPLICATIONS" conducted at JNTUH COLLEGE OF ENGINEERING, HYDERABAD on 24 <sup>th</sup> -26 <sup>th</sup> March 2009.
	Participated in Two-day National Conference on "Intelligence system"
	organized by Department of ECE, Muffakham Jah College of Engineering and Technology, Hyderabad on 24th-25th August 2007.
	Completed One-month Course titled "ORACLE" in PEERS
	TECHNOLOGIES PVT. LIMITED, HYDERABAD in 2007.
	Completed Six-month Course titled "ADVANCED DIPLOMA IN DIGITAL
	IMAGE PROCESSING" in CRANES SOFTWARE INTERNATIONAL LIMITED, HYDERABAD in 2006.
AWAI	RDS & ACHIEVEMENTS:
	Received National Best Teacher Award for Dr.Sarvepalli Radhakrishnan
	Best Teacher Award from Society for Learning Technologies (SOLETE) for the year 2025 at Vijayawada, Andhra Pradesh with Regd. No. 186/2020 held on 07-09-2025.
	Received certificate of appreciation in the category of Future Innovators in
	recognition of valuable contribution as a "Judge" in World Robot Olympiad Regional Championship, Hyderabad, India, 2025 organised by Oakridge International School, Gachibowli, Hyderabad held on 07-08-2025.
	Received a memento of a Testimonial of sincere appreciation as a Mentor for
	ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by

IIT, Delhi from TRM, Team ROBOCON MJCET for the academic year 2024-2025. Received a memento of a Testimonial of sincere appreciation as a Mentor for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by IIT, Delhi from TRM, Team ROBOCON MJCET for the academic year 2023-2024. ☐ Received a memento of a Testimonial of sincere appreciation as a Mentor for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by IIT, Delhi from TRM, Team ROBOCON MJCET for the academic year 2022-2023. ☐ Received a memento of a Testimonial of sincere appreciation as a Mentor for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by IIT, Delhi from TRM, Team ROBOCON MJCET for the academic year 2021-2022. Received a memento of a Testimonial of sincere appreciation as a Faculty Advisor for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by IIT, Delhi from TRM, Team ROBOCON MJCET for the academic year 2020-2021. Received an Appreciation from ANVESHNA for substantial contribution to the projects and support rendered in mentoring the students from SCHOLAR'S ACADEMY School in the spirit of Anveshna 2020, Hyderabad in

Jan 2020.

- ☐ Received a memento of a Testimonial of sincere appreciation as a Faculty Coordinator for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by MIT, Pune from TRM, Team ROBOCON MJCET for the academic year 2019-2020.
- Received a memento of a Testimonial of sincere appreciation as a Faculty Coordinator for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by MIT, Pune from TRM, Team ROBOCON MJCET for the academic year 2018-2019.
- □ Received a memento of a Testimonial of sincere appreciation as a Faculty Coordinator for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by MIT, Pune from TRM, Team ROBOCON MJCET for the academic year 2017-2018.
- □ Received a memento of a Testimonial of sincere appreciation as a Faculty Coordinator for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by MIT, Pune from TRM, Team ROBOCON MJCET for the academic year 2016-2017.
- □ Received Letter of Appreciation from Department of ECE, Muffakham Jah

  College of Engineering & Technology for effectively volunteering in organizing a Three-day workshop on "Introductions to ROBOTICS" held at Telangana Minorities Residential Institution Education Society (TMRIES) on 12<sup>th</sup>-14<sup>th</sup> AUG 2017.

Received a memento of a Testimonial of sincere appreciation as a Faculty
Coordinator for ROBOCON, an International Level Robotic Competition organized by Asia-Pacific Broadcasting Union (ABU), with national competitions held by MIT, Pune from TRM, Team ROBOCON MJCET for
the academic year 2015-2016.
Won the BEST MANUAL ROBOT award in National level Robotics
competition called ROBOCON at PUNE and stood at 4 <sup>th</sup> position amongst 82 participating teams from all over INDIA in 2014.
Won the BEST IDEA ROBOT award in National level Robotics competition
called ROBOCON at PUNE and stood at 5 <sup>th</sup> position amongst 82 participating teams from all over INDIA in 2013.
Received Letter of Appreciation from MJCET ALUMNI ASSOCIATION for
smooth and impressive conduct of "CONGREGATION 2012".
Received Letter of Appreciation from MJCET ALUMNI ASSOCIATION for
smooth and impressive conduct of "CONGREGATION 2011".
Received Letter of Appreciation from MJCET ALUMNI ASSOCIATION for
smooth and impressive conduct of "CONGREGATION 2010".
Received Letter of Appreciation from MJCET ALUMNI ASSOCIATION for
smooth and impressive conduct of "CONGREGATION 2008".

# PROFESSIONAL MEMBERSHIP:

- ➤ Life membership of Indian Society for Technical Education (ISTE) New Delhi registered code LM 68300.
- ➤ Life membership of Edwin Group of Journal (Editorial Member) from DEC 2024 with registration number 003736837518.