

## BIO-DATA

**MUNNA KHAN**

Nationality: **INDIAN**

Father: Late Nawab Khan, Mother: Late Khatoon Begum, Birth: Khurrampur, Aligarh, UP, INDIA

Residence: 92 T Sector 8, Jasola Vihar, New Delhi-110025, INDIA

E-mails:mkhan4@jmi.ac.in Mob: 9999806500, Passport: M 4939543, DOB: 10 Aug 1968

## PROFESSIONAL EDUCATIONS

Ph.D.	Biomedical Engineering	IIT, Delhi	Awarded & received Gold Medal	2002
M.Tech.	Electronics Engineering	AMU, Aligarh	66.4 %	First Division 1993
B.Tech.	AMU, Aligarh	Electrical Engineering	71.5 %	First Division 1989
12th Class	AMU, Aligarh	Senior Secondary School	60.0 %	First Division 1985
10th Class	UP Board	High School	72.2 %	First Division 1983

## PROFESSIONAL EXPERIENCES

Employer	Position	Period	
Jamia Millia Islamia (JMI), New Delhi.	Professor	2011	Present
Mewat Engineering College, Haryana.	Professor and Director	2009	2011
Jamia Millia Islamia, New Delhi.	Associate Professor	2005	2009
Indian Institute of Technology, Guwahati.	Assistant Professor	2004	2005
Jamia Millia Islamia, New Delhi.	Lecturer/ Sr. Lecturer	1992	2004
Wright State University, Dayton, OH, USA	Visiting Professor	May-June 2011, 2012	
Wright State University, Dayton, OH, USA	Visiting Professor	May-July 2007, 2009	
Wright State University, Dayton, OH, USA	Visiting Assistant Professor	May-July 2004, 2005	

**Fellows**

**Aerospace Medical Association, USA**

**Indian Society of Aerospace Medicine**

**SUMMARY OF AWARDS**

**INTERNATIONAL = 2**

**NATIONAL = 7**

**OTHERS = 2**

**SUMMARY OF INVITED LECTURES/ TALKS**

**INTERNATIONAL = 7**

**NATIONAL = 9**

**R & D PROJECTS GRANTS RECEIVED**

**10 Million Indian Rupees (Approx)**

**Specializations: 1. Biomedical Engineering**

**2. Aerospace Medicine**

## Summary of publications

PUBLICATIONS		REMARKS
INTERNATIONAL/ NATIONAL JOURNALS: SCI/SCOPUS/ OTHERS	78	56 FULL PAPERS (1 protected by US copyright Law) 22 ARCHIVAL ABSTRACTS
FULL PAPERS IN THE PROCEEDINGS INTERNATIONAL / NATIONAL CONFERENCE	54	24-SCOPUS Indexed, 3- SCOPUS Book Chapters 27-OTHER Indexed. Received 10 BEST PAPER AWARDS during AIME-06, ETEEE-15, IEEE INDICON-15, JTACON-20
SHORT PAPERS AND ABSTRACTS IN THE INTERNATIONAL / NATIONAL CONFERENCES	61	7-USA, 1-BRAZIL, 1-Malaysia, 1-Australia, 1-Spain, 1-UK, 1-Thailand • Received "AWARD OF HONOUR" by ISAM, INDIAN AIR FORCE, BANGALORE, INDIA
Total Publications	193	

**INTERNATIONAL AWARDS / HONORS / RECOGNITION RECEIVED**

Name of Awards	Awarded by	Awarded for	Date
IEEE Senior Member	IEEE Admission and Advancement Committee, USA	Recognition of knowledge & outstanding contribution in the Engineering in Medicine and Biology Society	October 19, 2019
Fellow	Aerospace Medical Association, USA	Recognition of knowledge & outstanding contribution in Aerospace Medicine	May 09, 2019
Young Investigator Award, Space Medicine Branch, NASA	Aerospace Medical Association, USA	One of top 10 % of the performances throughout the world	May 07, 2003

**NATIONAL AWARDS / HONORS / RECOGNITION RECEIVED**

Name of Awards	Awarded by	Awarded for	Date
Fellow	ISAM, Indian Air Force	Recognition of knowledge & outstanding contribution in Aerospace Medicine	Sept 25, 2018
Career Award for Young Teacher	All India Council for Technical Education, India	Research & Development project grant of Rs 10.50 Lacs	Jan. 19, 2004
Dogra Gold Medal	Indian Institute of Technology (IIT) Delhi, India	Best publication in the Journals of International repute	Aug.10, 2002
Best Presentation	IIT Delhi, India	Lecture in QIP/ CEP summer school	July 12, 2002
Best Paper Awards	JTACON-2020, ICANN-2016, INDICON-2015, ETEEE-2015, AIME-2006, New Delhi and NCCI-2007 by NIT India	Excellence in interdisciplinary research	Feb. 3, 2015

**OTHER AWARDS**

- Award of Honour for paper presentation by Indian Society of Aerospace Medicine, Indian Air Force at IAM Bangalore on Nov. 17, 2004.
- Consolation Award for IIT Guwahati for participation and presentation of assistive devices for physically handicaps in the exhibition organized by Ministry of Social Justice and Empowerment, Govt. of India at Patna, Bihar on Oct. 13, 2004.

## **RESEARCH AND DEVELOPMENT (R & D) WORKS**

1. Patent published on 1 May 2020 with application No. 202011011219 entitled "POCKET SIZE PORTABLE WI-FI BASED BIO-ELECTRICAL IMPEDANCE MEASURING DEVICE" applied on 16 March 2020.
2. Patent published on 17 Jan 2020 with application No. 202011001310 A entitled "Force Measurement System for Masticatory Muscles" applied on 11 Jan 2020.
3. Patent published on 16 March 2018 with application No. 201811004169 A entitled "THERAPEUTIC APPARATUS FOR POSTURE AND BALANCE" applied on 04 Feb 2018.
4. Patent published on 19 Feb 2016 with application No.3500/DEL/2015 A entitled "PORTABLE COTTON BALL PLUCKING DEVICE" applied on 28 October 2015.

### **Major R&D Projects sponsored by Government of India**

1. Completed R & D project entitled “ Prediction and Measurement of Human Body Composition by Electrical Impedance Analysis using Electrical Impedance Tomography as Reference” Vide letter No. 1-51/FD/CA/ (010)/ 2003-04. A grant of Rs. 10.50 Lacs sponsored by AICTE, Ministry of Human Resources and Development (MHRD), Govt. of India.
2. Completed R & D project entitled “Biofeedback Controlled Anti G-Suit” Vide letter No. TC/ 226/ TASK-67(JMI)/ DIPAS/ 2003 starting from April 2003 to 2007. A grant of Rs. 4.15 Lacs sponsored by DRDO, Ministry of Defense, Govt. of India.
3. Completed R & D project entitled “Design and development of psychoacoustic devices” with Vide letter No. TC/ 361/ TASK-182(MK)/ DIPAS/ 2012 starting from May 2012 to Sept 2014. A grant of Rs. 9.95 Lacs sponsored by DRDO, Ministry of Defense, Govt. of India.
4. Completed R & D project entitled “vision based expert system for picking of cotton” with Vide letter No. CoEFM/CPCFM/12-13/81dated 11 Jan 2013. A grant of Rs. 79.95 Lacs sponsored by DST, Ministry of Sciences and Technology, Govt. of India

### **Grant for infrastructure/ Short courses/ PAC/MAC by Government of India**

1. Completed the Project entitled “Creation of Microprocessors and Applications Laboratory” Vide letter No. MODROB 3-1/92.TD.VI from April 1993 to June 1994. A grant of Rs 10 Lacs sponsored by Ministry of Human Resources and Development (MHRD), Govt. of India.
2. Completed MHRD GIAN course on “Advance in Neurotechnologies for Building the Brain Machine Interfaces” Vide Letter No. IIT/GIAN/S-16/707 dated 8 Sept 16 from Feb 25 to March 1, 2017 at Department of Electrical Engineering Jamia Millia Islamia, New Delhi. A grant of Rs 8.16 Lacs sponsored by MHRD, Govt. of India.
3. Completed PAC-Electrical, Electronics and Computer Engineering meeting of R & D projects on February 2, 2017. A grant of Rs. 5.5 lacs sponsored by DST, Ministry of Science And Technology, Govt. of India.

## **CONTRIBUTION TO THE NATIONAL PRIDE**

By carrying the Indian flag to 48th International Congress on Aviation and Space Medicine at Rio de Janeiro, Brazil on Sept. 17, 2000.

## **SPECIAL ASSIGNMENTS**

- Prof. Munna Khan attended the three weeks of “Leadership for Academician Programme (LEAP)” organized by the UGC-Human Resource Development Centre, Jamia Millia Islamia (JMI) Central University, New Delhi, India. The two weeks (10th March to 20th March, 2019) were held at JMI Central University, New Delhi, India and one week (21st March to 31st March, 2019) held at University of Virginia, USA.
- Prof. Munna Khan selected as one of Speed Mentoring Mentors for learner participants during 90th Annual Scientific Meeting of Aerospace Medical Association (AsMA), USA on May 08, 2019 at All Rio suites hotel, Las Vegas, NV, USA.
- Prof. Munna Khan selected as one of Speed Mentoring Mentors for learner participants during 89th Annual Scientific Meeting of Aerospace Medical Association (AsMA), USA on May 09, 2018 at Hilton Anatole Hotel, Dallas, TX, USA.
- Prof. Munna Khan selected as one of Speed Mentoring Mentors for learner participants during 88th Annual Scientific Meeting of Aerospace Medical Association (AsMA), USA on May 03, 2017 at Hotel Sheraton Denver Downtown, CO, USA. National Aeronautics and Space Administration (NASA) is a corporate member of AsMA, USA.
- Research consultant for R & D Project of US Air Force entitled “The Air Force advanced micro-compression sock in deep venous thrombosis prevention” during May to July, 2007 at Wright State University (WSU), Dayton, OH, USA.
- Evaluation of R&D project of ICMR for Indo-UK program entitled “To study the validity of bioelectrical impedance for assessment of body composition in Asian Indian”.
- A Reviewer for International Journal of “Computer Methods in Biomechanics and Biomedical Engineering” published from Taylor & Francis, European Society of Biomechanics.

## **RESEARCH COLLABORATIONS**

Prof. David B. Reynolds and Prof. Roberta L. Pohlman,

Wright State University, Dayton, Ohio, USA.

Dr. Reggie B. O’hara, Research Physiologist

Wright Patterson Air Force Base, Dayton, Ohio, USA.

## **INVITED LECTURES/TALKS AT USA**

1. Delivered invited talk on “Applications of Biomedical Instrumentation in orthopedic surgery” at Wright State University, Dayton, OH, USA, on June 15, 2012.
2. Delivered invited talk in Ph.D. seminar on “Biofeedback Controlled Anti-G Suit: Simulation and Prototype Development” at Wright State University, Dayton, USA, on June 03, 2011.
3. Presentation and discussion on “Biomedical instrumentation and technology developments for an aircraft pilot under G stress” at Erik Jonsson School of Engineering and Computer Science, The University of Texas, Dallas, TX, USA on May 13, 2011.
4. Delivered invited talk in Ph.D. seminar on "Electrical impedance analysis and technology developments for high performance aircraft pilots" at Wright State University, Dayton, OH, USA, on May 22, 2009.
5. Delivered invited talk on "Theoretical, biophysical model simulation and prototype development of biofeedback controlled anti-g suit" at Wright State University, Dayton, OH, USA, on July 06, 2007.
6. Delivered invited talk on "Counter measures to reduce fatigue in the aircrew members" organized by Aerospace Nursing Society at KANSAS CITY, MO, USA, on May 12, 2005.
7. Delivered invited talk on "Present State-of-Art of Noninvasive Techniques for the Measurement of Human Body Composition" at Wright State University, Dayton, OH, USA, on May 27, 2005.
8. Delivered invited talks on "Aviation pilot's biological response in high acceleration and related technological issues" at Wright State University, Dayton, OH, USA, on June 28, 2004.
9. Delivered invited talks on "Recent trends of Medical Sciences and Technology for Air Force" at Wright State University, Dayton, OH, USA, on July 01, 2004.

## **INVITED TALKS/LECTURES AT INDIA**

1. Delivered an expert lecture on “Human health care” during 97th Orientation Programme organized by Academic staff college, Jamia Millia Islamia (Central University), New Delhi on March 07, 2009.
2. Prof Munna Khan delivered a key Note expert lecture entitled "Civil and defence applications of Biomedical Engineering" during International conference on “Information & Communication Technologies (ICT) Globalization and Automation” held on April 12-13, 2018 at IIMT College of Engineering, Knowledge Park III, Greater Noida, Uttar Pradesh, India.
3. Prof Munna Khan delivered an expert lecture entitled "Electromagnetic Fields and its effects on human health" at Krishna Engineering College, 95, Loni Road, Between Mohannagar & Air Force Station-Hindon, Ghaziabad, UP, INDIA on June 12, 2017. A number of Assistant Professors/ Associate Professors/ Professors attended Faculty development program were from various Engineering Colleges/ Institutes/ Universities of INDIA.
4. Delivered an invited talk/ lecture on “Recent trends of Biomedical Engineering” held on Feb 13, 2016 at Zakir Husain college of Engineering & Technology, AMU Aligarh, UP.
5. Delivered an invited talk on “assessment of human physiological parameters using communication systems” in the International conference on “soft computing techniques and implementations” held during Oct. 8-10, 2015 at MRI University, Faridabad, INDIA.

6. Delivered an invited talk on “Multi-dimensional applications of Mechatronics” in Faculty development programme on “Mechatronics & Robotics in Manufacturing Industries” held during Feb 27 to March 12, 2015 conducted by Department of Mechanical Engineering, F/O Engineering & Technology, Jamia Millia Islamia, New Delhi.
7. Delivered a plenary lecture on “Application of finite element methods for aircraft pilot” in the National conference on “Advances in Mechanical Engineering” held during Nov. 27-28, 2010 at AMU Aligarh, UP.
8. Delivered an invited talk on “Defence and civilian applications of instrumentation technology” during one day seminar on recent trends in Instrumentation Technology held at Galgotias Institute of Engineering and Technology, Greater Noida on Nov. 18, 2009.
9. Delivered an expert lecture on “Human body composition and health care” during 87th Orientation Programme organized by Academic staff college, Jamia Millia Islamia (Central University), New Delhi on March 07, 2009.
10. Delivered invited talk on “Recent trends in body composition measurement” during Summer School sponsored by ISTE at AIT, New Delhi on May 08, 2008.
11. Delivered invited talk on “Biomedical instrumentation to increase G tolerance of aircraft pilot” during All India Seminar on Biomedical Engineering and bioinformatics held during March 24-25, 2007 at Anand Engineering College, Agra, UP.
12. Delivered invited talk on “Multi-dimensional applications of biomedical instrumentation” during Winter School sponsored by ISTE at National Institute of technology (NIT) Jalandhar on March 09, 2007,
13. Delivered distinguished talk on "Impedance Plethysmography in the measurement of Autonomic Functions and Hemodynamics” held during March 17-18, 2006 at All India Institute of Medical Sciences (AIIMS), New Delhi,
14. Delivered a presentation on "Modern Electro Surgical Equipment" in the seminar on 'Electrosurgical Instruments' on May 17, 2004, conducted by IIT Kharagpur at DST, Ministry of Science and Technology, Govt. of India.
15. Delivered distinguished lecture on "Electromedical equipment in surgery" in the workshop on 'Medical Instrumentation: User Interface' during Oct. 23-29, 2003, conducted by School of Medical Sciences and Technology, IIT Kharagpur, WB.

## PROFESSIONAL SOCIETIES & ACTIVITIES

- Active Member : (1) Aerospace Medical Association, USA  
[Membership No. 15656].  
(2) IEEE society of Engineering in Medicine and Biology, USA.  
[Membership No. 90605199].
- Life Member : (1) Indian Society of Aerospace Medicine, Air Headquarters, INDIA.  
[Membership No. ISAM/101/01/01].  
(2) Biomedical Engineering Society of INDIA.  
(3) Indian Society of Technical Education, INDIA.  
[Membership No. LM-34115].
- Faculty Advisor : Student Chapter of IEEE Engineering in Medicine and Biology at Jamia Millia Islamia (A Central University), New Delhi, India.

## **ACADEMIC/ADMINISTRATIVE RESPONSIBILITIES INSIDE THE UNIVERSITY**

Prof Munna Khan as a Course Coordinator organized MHRD GIAN course on ‘Advance in Neurotechnologies for Building the Brain Machine Interfaces’ during February 25 –March 1, 2017 at Department of Electrical Engineering Jamia Millia Islamia, New Delhi.

Organized the meeting of PAC-Electrical, Electronics and Computer Engineering on February 2, 2017 (Thursday) at 09:00 hrs at Jamia Millia Islamia, New Delhi

### **Organization of the International/ National Conference**

#### **TRACK CHAIR: ELECTRONICS AND NANOTECHNOLOGY**

12th IEEE International Conference-INDICON- 2015 “Energy, Environment, Electronics, Computer, Control, Communication (E3 -C 3 )”, 17-19 December 2015, Jamia Millia Islamia, New Delhi, INDIA.

#### **ORGANIZING SECRETARY**

National Conference on Emerging Trends in Electrical and Electronics Engineering (ETEEE-2015); 2015 Feb 02-03 at EED, Faculty of Engineering & Technology, JMI, New Delhi.

#### **Ph.D. AWARDED UNDER SUPERVISION : 10**

- 2018 - Bharat B Sharma : Design and development of a system to modulate  
perceptive acoustic effects.
- 2018 - Mosarrat Jahan : Analysis of EMG signals for subvocal speech recognition.
- 2018 - Amged S.A. Mahmoud : Robust Control of Dynamic System VIA T-S Fuzzy  
Technique.
- 2016 - Ajai Kumar Singh : Simulation of biophysical model of cardiac biosensors.
- 2016 - Savita Sondhi : Voice Stress Analysis using software simulation
- 2015 - Ghazala Parveen : Prediction of body composition for Indian population using  
bioelectrical impedance analysis.
- 2015 - Sharda Vasisth : Study of simulated blood pooling in the body segment of  
pilot under G stress
- 2011 - Depali Bansal : Design and development of a portable wireless system for  
detection of human physiological parameters.
- 2011 - Shabana Urooj : Design and development of a computer based biophysical model for  
diagnosing Pulmonary Edema.
- 2010 - PN Goswami : Prediction and measurement of body composition using non-invasive  
techniques.

#### Ph.D. THESIS ONGOING : 10

1. Shaila Parveen S.M. Ali : Assessment and monitoring of healing of bone fractures using non-invasive techniques.
2. Prerna Kakker : Assessment of dental healings using lasers.
3. Mohd. Qaiser Reza : Design and development of a portable embedded system for pills detection.
4. Charu Pawar : Assessment of osteoarthritis using non-invasive techniques.
5. Mohammad Faisal : Applications of Pulsed electromagnetic fields in dentistry.
6. Ansar Ahmad : Applications of low-level LASERS in dentistry.
7. Naved Alam : Design and development of low-level LASER device.
8. Zakarya Abdullah : Simulation studies on brain computer interface.

#### CONTRIBUTIONS AT DEPARTMENTAL LEVEL

- Introduction and development of theory and practical classes at under graduate and graduate levels.
- Creation of laboratories:
  1. Microprocessors & applications lab
  2. Analog Electronics lab.
- Superintendent of B. Tech./ M.Sc. Electronics Entrance Test Examination.
- Assistant Superintendent of B.Tech/ BE examinations.
- Member of Faculty Committee, JMI Central University, New Delhi.
- Member of flying squad team for the examinations: 2005-06.
- BE Coordinator: 2002-2003

B. Tech Projects: 120 (Approximate)

Selected M. Tech. Dissertation thesis:

1. Dipali Bansal : Design and development of computer based wireless ECG data acquisition system.
2. Kavita Goyal : Computer based assessment of physiological hand tremor.
- 3.
4. Kashif Javed : Assessment of cranial blood volume changes using non-invasive technique.
5. DN Mahaseth: Wireless monitoring system of ECG & PCG signals.



## SUBJECTS TAUGHT AT MASTER AND UNDERGRADUATE LEVEL

- Theory Classes

Medical Electronics, Biomedical Instrumentation, Microprocessors & applications, Analog Electronics, Communication System, Active Network & Filter Design, Instrumentation & Measurements, Radar, TV, and Optical Communication Engineering, Electromagnetic Field Theory, Basic Electronics, Element of Electrical Engineering.

- Practical/ Laboratory classes

1. Microprocessor & applications Lab.
2. Analog Electronics Lab.
3. Digital Electronics Lab.
4. Communication Lab.
5. Active filter design Lab.
6. Instrumentation Lab.
7. Circuit Analysis Lab.
8. Electrical Engineering Lab.

## ACADEMIC/ADMINISTRATIVE RESPONSIBILITIES OUTSIDE THE UNIVERSITY

- External Expert Member for board of studies (BOS) of Electrical Engineering, D C R University of Sciences & Technology, Murthal (SONIPAT), Haryana, India.
- International Advisory Committee member of 3rd International Conference on Electronic Design (ICED) to be held during Aug 11- 12, 2016 at Phuket, Thailand.
- National Advisory Committee member of National Conference on recent technological developments in electronics and electrical engineering to be held during Aug 12- 13, 2016 at Jaipur Engineering College and Research Centre, Jaipur, India
- Judge for the event “Insignia” The Logo design Competition to be held as “Zest- 2016” on Monday, 5th October 2015 at Dr MA Ansari Auditorium, JMI New Delhi.
- Chairman in Technical Session of Track 2 on Communications in the International conference on “soft computing techniques and implementations” held during Oct. 8-10, 2015 at MRI University, Faridabad, India.
- Chairman in Technical Session VI B of Track 3 on Biomedical Instrumentation in the National Conference on Emerging Trends in Electrical and Electronics Engineering held during 2015 Feb 02-03 at JMI New Delhi.
- Expert Member in Selection Board of UPSC, New Delhi, India.
- Expert committee member for evaluating the progress of DRDO R & D project at DIPAS, Delhi, India.
- Chief Guest in the National Conference on “Advances in Mechanical Engineering” held during Nov. 27-28, 2010 at Aligarh Muslim University, Aligarh, UP, INDIA.
- Examiners of Ph.D. Thesis/Evaluation of various universities/ colleges.
- Examiners of M. Tech dissertations/ B.Tech. projects of various universities/ colleges.

## CO-SUPERVISOR OF MASTER OF DENTAL SURGERY AT AIIMS NEW DELHI

1. Finite element analysis.
2. Bite force analysis.

## INTERNATIONAL FELLOWSHIPS

1. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India gave international travel fellowship to attend and present a research paper in the “89th Annual Scientific Meeting of Aerospace Medical Association held during May 06-10, 2018 at Hilton Anatole Hotel, Dallas, TX, USA (May 6 to 10 May 2018).
2. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India gave international travel fellowship to attend and present a research paper in the “86th Annual Scientific Meeting of Aerospace Medical Association held during May 10-14, 2015 at Lake Buena Vista, Orlando, FL, USA.
3. CSIR International Travel Fellowship: The Council of Scientific & Industrial Research (CSIR) and Jamia Millia Islamia, New Delhi together gave international travel fellowship to attend and present a research paper in the 83rd Annual Scientific Meeting of Aerospace Medical Association held during May 13-17, 2012 at Atlanta, GA, USA.
4. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India and Haryana Wakf Board, Govt. of Haryana together gave international travel fellowship to attend and present a research paper in the 82nd Annual Scientific Meeting of Aerospace Medical Association held during May 8-12, 2011 at D. Convention Centre, Anchorage, AK, USA.
5. AICTE International Travel Fellowship: The All India Council for Technical Education (AICTE), Ministry of Human Resources and Development, Govt. of India and Jamia Millia Islamia, New Delhi together gave international travel fellowship to attend and present a research paper in the 80th Annual Scientific Meeting of Aerospace Medical Association held during May 3-7, 2009 at Westin Bonaventure Hotel, Los Angeles, CA, USA.
6. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India and Wright State University, Dayton, Ohio, USA together gave international travel fellowship to attend and present a research paper in 78th Annual Scientific Meeting of Aerospace Medical Association held during May 13-17, 2007 at Sheraton Hotel, New Orleans, LA, USA.
7. CSIR International Travel Fellowship: The Council of Scientific & Industrial Research (CSIR) and Jamia Millia Islamia, New Delhi together gave international travel grant to attend and present a research paper in the 76th Annual Scientific Meeting of Aerospace Medical Association held during May 8-12, 2005 at Kansas City, Missouri, USA.
8. AICTE International Travel grant: The All India Council for Technical Education (AICTE), Ministry of Human Resources gave international travel grant (Part of Career Award for Young Teacher) for doing R & D work on Body Composition during May-July, 2004 at Wright State University, Dayton, Ohio, USA.
9. AICTE International Travel Fellowship: The All India Council for Technical Education (AICTE), Ministry of Human Resources and Development, Govt. of India gave international travel fellowship to attend and present a research paper in the 74th Annual Scientific Meeting of Aerospace Medical Association held during May 4-9, 2003 at San Antonio, Texas, USA.
10. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India gave international travel fellowship to attend and present a research paper in 48th International Congress on Aviation and Space Medicine held during September 10-14, 2000 at Rio de Janeiro, Brazil.

## BOOKS/ EDITORS BOOKS/ LABORATORY MANUALS

Jamil M, Khan M, Siddiqui AS (Editors). Emerging trends in Electrical and Electronics Engineering. Excel India Publisher 2015; Vol. I. New Delhi, India (ISBN No. 978-93-84869-20-5).

Jamil M, Khan M, Siddiqui AS (Editors). Emerging trends in Electrical and Electronics Engineering. Excel India Publisher 2015; Vol. II. New Delhi, India. (ISBN No. 978-93-84869-25-0).

LAB MANUALS: 1. Microprocessors Laboratory    2. Analog Electronics Laboratory

## MEMBER OF ORGANIZING/ PLANNING/ MANAGEMENT COMMITTEE

1. All India Technical Festivals ENCOMIUM: 2001 and 2002 conducted by IEEE Jamia Student Branch at Jamia Millia Islamia, New Delhi.
2. National workshop on “Technological Dimensions of Emerging Contraceptives” held during Sept. 25-26, 2002, at Indian Institute of Technology Delhi.
3. National symposium on “Medical science and technology for population welfare” held during Oct. 27-29, 2003, at Indian Institute of Technology Kharagpur.
4. Seminar on “Male health and Annual conference of the society of Andrology, India” held during Dec. 13-15, 2003, at All India Institute of Medical Sciences, New Delhi.
5. International conference on “Energy and environment- Strategies for sustainable development” held during Jan. 23-24, 2004, at Jamia Millia Islamia (Central University), New Delhi.
6. National symposium on “Contraception-technology ahead” held during April 21-23, 2005, at National Institute of Health and Family Welfare, New Delhi.
7. National workshop on “Emerging Intrauterine devices forms: Frameless and Shape memory IUDs” Organized by IIT Kharagpur during Sept. 15-16, 2005 at National Institute of Health and Family Welfare, New Delhi.
8. National conference on “Cardiac devices” Organized by IIT Kharagpur during Sept. 15-16, 2008 at National Institute of Health and Family Welfare, New Delhi.

## PARTICIPATION IN ORIENTATION/ REFRESHER/ SHORT-TERM COURSES

1. QIP/CEP on “Repair and Maintenance of Computers & Peripherals”, April 11-23, 1994, sponsored by the DOE, Govt. of India and conducted by DIT, New Delhi – 110 006.
2. Continuing education program (CEP) on “Improvement of Instruction through Education Technology”, July 25-31, 1995, conducted by Centre of Education Technology, Indian Institute of Technology, Delhi.
3. QIP/CEP Summer School on “Instrumentation, Measurements and Analysis”, July 03-14, 2000, conducted by Department of Applied Mechanics, Indian Institute of Technology, Delhi.
4. 59th Four-Week Orientation Course, June 04-July 01, 2002, conducted by staff college, Jamia Millia Islamia (Central University), New Delhi

5. QIP/CEP Summer School on “Experimental Methods and Analysis” July 01-12, 2002, conducted by Department of Applied Mechanics, Indian Institute of Technology, Delhi.
6. QIP/CEP Winter School on “UNIX and Applications”, Dec. 09-13, 2002, conducted by Computer Service Centre, Indian Institute of Technology, Delhi.
7. QIP/CEP Summer School on “Air Pollution” July 04-9, 2005, conducted by Department of Applied Mechanics, Indian Institute of Technology, Delhi.

## PARTICIPATIONS IN THE AEROSPACE CONFERENCES

### INTERNATIONAL CONGRESSES/ MEETINGS/ CONFERENCES

1. 90th Annual Scientific Meeting of Aerospace Medical Association held during May 05-9, 2019 at All Rio suites hotel, Las Vegas, NV, USA.
2. 89th Annual Scientific Meeting of Aerospace Medical Association held during May 06-10, 2018 at Hilton Anatole Hotel, Dallas, TX, USA.
3. 88th Annual Scientific Meeting of Aerospace Medical Association held during April 30-May 04, 2017 at Sheraton Hotel, Denver. CO, FL, USA.
4. 64th International Congress of Aviation and Space Medicine held during Nov 06-10, 2016 at Pullman Hotel, New Delhi, India.
5. 86th Annual Scientific Meeting of Aerospace Medical Association held during May 10-14, 2015 at Lake Buena Vista, Orlando, FL, USA.
6. 83rd Annual Scientific Meeting of Aerospace Medical Association held during May 13-17, 2012 at Atlanta, GA, USA.
7. 82nd Annual Scientific Meeting of Aerospace Medical Association held during May 8-12, 2011 at D. Convention Centre, Anchorage, AK, USA.
8. 80th Annual Scientific Meeting of Aerospace Medical Association held during May 3-7, 2009 at Westin Bonaventure Hotel, Los Angeles, CA, USA.
9. 78th Annual Scientific Meeting of Aerospace Medical Association held during May 13-17, 2007 at Sheraton Hotel, New Orleans, LA, USA.
10. 54th International Congress of Aviation and Space Medicine held during sept. 10-14, 2006 at JN TATA Auditorium, Bangalore, India.
11. 76th Annual Scientific Meeting of Aerospace Medical Association on “Charting the course for the future” held during May 8-12, 2005 at Kansas City, Missouri, USA.
12. 74th Annual Scientific Meeting of Aerospace Medical Association on “100 years of flight and aerospace medicine support” held during May 4-9, 2003 at San Antonio, Texas, USA.
13. 48th International Congress on Aviation and Space Medicine held during September 10-14, 2000 at Rio de Janeiro, Brazil.

### NATIONAL CONGRESSES/ MEETINGS/ CONFERENCES

14. 58th Annual conference of Indian Society of Aerospace Medicine held during Nov. 14-16, 2019 at Institute of Aerospace Medicine, Bangalore, India.
15. 57th Annual conference of Indian Society of Aerospace Medicine held during Sept. 14-16, 2018 at Institute of Aerospace Medicine, Bangalore, India.
16. 56th Annual conference of Indian Society of Aerospace Medicine held during Aug. 24-27, 2017 at Institute of Aerospace Medicine, Bangalore, India.

17. 55th Annual conference of Indian Society of Aerospace Medicine held during Aug. 28-30, 2015 at Institute of Aerospace Medicine, Bangalore, India.
18. 54th Annual conference of Indian Society of Aerospace Medicine held during Aug. 22-24, 2014 at Institute of Aerospace Medicine, Bangalore, India.
19. 51st Annual conference of Indian Society of Aerospace Medicine held during Sept. 14-17, 2011 at Institute of Aerospace Medicine, Bangalore, India.
20. 49th Annual conference of Indian Society of Aerospace Medicine held during Nov. 13-15, 2009 at Subroto Air Force Park, New Delhi, India.
21. 46th Annual conference of Indian Society of Aerospace Medicine held during Sept. 14-16, 2005 at Institute of Aerospace Medicine, Bangalore, India.
22. 44th Annual conference of Indian Society of Aerospace Medicine held during Nov. 17-19, 2004 at Institute of Aerospace Medicine, Bangalore, India.
23. 43rd Annual conference of Indian Society of Aerospace Medicine held during Nov. 20-22, 2003 at Institute of Aerospace Medicine, Bangalore, India.
24. 43rd Annual conference of Indian Society of Aerospace Medicine held during Nov. 27-29, 2002 at Subroto Air Force Park, New Delhi, India.
25. Golden Jubilee Conference of Indian Society of Aerospace Medicine held during Feb. 5-8, 2002 at Institute of Aerospace Medicine, Bangalore, India.
26. Millennium Conference of Indian Society of Aerospace Medicine held during Nov. 23-25, 2000 at Institute of Aerospace Medicine, Bangalore, India.

#### PARTICIPATIONS IN THE BIOMEDICAL ENGINEERING CONFERENCES

##### INTERNATIONAL CONGRESSES/ MEETINGS/ CONFERENCES

27. One day seminar held during Ohio Orthopaedic Research and Innovation Day on June 2, 2011 at Wright State University, Dayton, OH, USA.
28. International conference entitled "51st Annual Meeting of the American College of Sports Medicine" held during June 2-5, 2004 at Indiana Convention Center & RCA Dome in Indianapolis, Indiana, USA.
29. International Conference on "Biomedical Engineering" held during Jan. 24-26, 2001 at Anna University, Chennai, India.
30. First regional conference of "IEEE Engineering in Medicine and Biology society" and 14th conference of Biomedical Engineering Society of India held during Feb. 15-18, 1995 at Vigyan Bhavan, New Delhi, India

##### NATIONAL CONGRESSES/ MEETINGS/ CONFERENCES

31. National Symposium on "Impedance Plethysmography in the measurement of Autonomic Functions and Hemodynamics" held during March 17-18, 2006 at Department of Physiology, All India Institute of Medical Sciences, New Delhi, India.
32. National seminar on "Standardization of NO SCALPEL VASECTOMY INSTRUMENTS" held on March 13, 2006 at National Institute of Health and Family Welfare, New Delhi, India.
33. National Conference on "Emerging Intrauterine Devices Forms: Frameless and Shape Memory IUDs" held during Sept. 15-16, 2005 at National Institute of Health and Family Welfare, New Delhi.

34. National Symposium on “CONTRACEPTIVE TECHNOLOGY AHEAD: Policies and Programs” held during April 21-23, 2005 at National Institute for Health and Family Welfare, New Delhi.
35. National Conference on “Male health” and annual conference of society of Andrology held during Dec. 13-15, 2003 at All India Institute of Medical Sciences, New Delhi, India.
36. National Symposium on “Medical science and technology for population welfare” held during Oct. 27-29, 2003 at Indian Institute of Technology, Kharagpur, India.
37. Baldev Singh National workshop on “Non-invasive Measurement of Peripheral Blood Flow and Cardiac Output” held during April 15-17, 2003 at Department of Physiology, All Indian Institute of Medical Sciences, New Delhi, India.
38. National Symposium on “Technology in Family Welfare” held during Dec. 8-10, 2001 at Indian Institute of Technology Delhi, Hauz-Khas, New Delhi, India.
39. National conference on “Biomedical Engineering” held during April 21-22, 2000 at University of Roorkee, India.
40. National Symposium & exposition on “Modern Instrumentation Challenges and Vision” held during Feb 27-28; 1999 at Aligarh Muslim University, Aligarh, India.

## FOREIGN VISITS

1. All Rio suites hotel, Las Vegas, NV, USA (May 5 to 14 May 2019).
2. Hilton Anatole Hotel, Dallas, TX, USA (May 6 to 10 May 2018).
3. Sheraton Hotel, Denver, CO, USA (30 April to 07 May 2017).
4. Lake Buena Vista, Orlando, FL, USA (09 May to 17 May, 2015).
5. Atlanta, GA and Wright State University, Dayton, Ohio, USA (May to June, 2012).
6. Anchorage, AK and Wright State University, Dayton, Ohio, USA (May to June, 2011).
7. Los Angeles, CA, and Wright State University, Dayton, Ohio, USA (May to July, 2009).
8. New Orleans, LA, and Wright State University, Dayton, Ohio, USA (May to July, 2007).
9. Kansas City, Missouri and Wright State University, Dayton, USA (May to July, 2005).
10. Wright State University, Dayton, Ohio, USA (May to July, 2004)
11. San Antonio, Texas, USA (01 May to 14 May, 2003).
12. Rio de Janeiro, Brazil, Latin America (Sept. 15 to 25, 2000).

## REPORTED NEWS IN LEADING NEWS PAPER AND WEBSITES

- News paper of India in Urdu on 17 July 2018: Rashtriya Shahara.
- Times of India: Education Times, published on 31 July 2017, pp-3
- News papers of India in English, Hindi, Urdu on 24 July 2017. News Papers: Okhal Times, Hindustan, Rashtriya Shahara, Inclave.
- Times of India: Education Times, published on 7 Sept. 2015, pp-3
- Okhla Times, published on 4 Sept. 2015, pp-1
- THE SOCIETY NEWS of ISAM (Indian Society of Aerospace Medicine) published in Indian Journal of Aerospace Medicine 2004; 48(1), pp-90.
- THE NEW INDIAN EXPRESS, published on 7th July 2003, pp-10.
- THE SOCIETY NEWS of ISAM (Indian Society of Aerospace Medicine) published in Indian Journal of Aerospace Medicine 2003; 47(1), pp-76 and 2004; 48(1), pp-90.

- THE TELEGRAPH, published in the KHOW-HOW/ INNOVATION MAGAZINE, on 8th July, 2002
- THE INDIA SCIENCE & TECHNOLOGY DIGEST of Asian technology information program, July 1-31, 2002, pp-3.

# PUBLISHED ORIGINAL RESEARCH ARTICLES IN THE INTERNATIONAL JOURNALS

With

**Impact factor and Citation Index:** SNIP (Source Normalized Impact per Paper), SJR (SCImago Journal Rank), Cite Score, H-Index.

## SCI (Science Citation Index) International Journals

1. Kashif I.K.S., Kumar N., Chemori A, Khan M, Mohammed S (2020). RISE-based adaptive control for EICoSI exoskeleton to assist knee joint mobility. *Robotics and Autonomous Systems*, 124 (2): 103354.  
(*Impact factor = 2.928, Citation Index: Cite Score=4.69, H-index =100*).
2. Khan M, Reza MQ, Salhan AK, Shaila PSMA Sirdeshmukh (2019). Acoustic resonance spectroscopy based simple system for spectral characterization and classification of materials. *Journal of Intelligent & Fuzzy Systems*, 36(5): 4389-4397.  
(*Impact factor = 1.637, Citation Index: Cite Score=1.96, H- Index = 46*).
3. Khan M and Jahan M (2018). Classification of myoelectric signal for sub-vocal Hindi phoneme speech recognition. *Journal of Intelligent & Fuzzy Systems*, 35(5): 5585-5592.  
(*Impact factor = 1.637, Citation Index: Cite Score = 1.96, H-Index = 46*).
4. Sherwani K, Kumar N, and Khan M (2018). Effect of Voluntary and Involuntary Joint Movement on EEG Signals. *Journal of Scientific & Industrial Research*, 77 (12): 710-712.  
(*Impact factor = 0.735, Citation Index: Cite Score= 0.62, H-Index = 46*).
5. Khan M, Siddique AS, Mahmoud ASA (2016). Robust  $H_{\infty}$  Control of Magnetic Levitation System Based on Parallel Distributed Compensator. *Ain Shams Engineering Journals*, 2018; 1119-1129.  
(*Impact factor = 3.091, Citation Index: Cite Score= 2.89, H-Index = 32*).
6. Khan M, Vashisth S, Vijay R , Salhan AK. Computer based real time systems for analyzing cardiovascular response to orthostatic stress. *Biocybernetics and Biomedical Engineering* 2015; 35 (4): 232-239.  
(*Impact factor = 2.159, Cite Score= 2.57, H-Index = 17*).
7. Urooj S, Khan M, Ansari AQ, Ekuakille AL, Salhan AK (2012). Prediction of Quantitative Intrathoracic Fluid Volume to Diagnose Pulmonary Edema Using LabVIEW. *Computer Methods in Biomechanics and Biomedical Engineering*, 15 (8): 859-64.  
*Impact factor = 1.610, Citation Index: Cite Score= 1.23, H-Index = 52*.
8. Bansal D, Khan M, Salhan AK (2009). Real time acquisition and PC to PC wireless transmission of human carotid pulse waveform. *Computers in Biology and Medicine*, 39 (10): 915-20.



*(Impact factor of journal: 2.286, Citation Index: Cite Score= 2.79 & H=75).*

9. Bansal D, Khan M, Salhan AK (2009). A computer based wireless system for online acquisition, monitoring and digital processing of ECG waveforms. *Computers in Biology and Medicine*, 39 (4): 361-367.

*(Impact factor of journal: 2.286, Citation Index: Cite Score= 2.79 & H=75).*

10. Khan M and Guha SK (2002). Prediction of electrical impedance parameters for the simulated leg segment of aircraft pilot under G-stress. *Aviation, Space and Environmental Medicine*, 73 (6): 558-64.

*( Impact factor of journal: 0.904, Citation Index: Cite Score= 0.69 & H=62).*

### **SCOPUS Indexed International Journals**

11. Pawar C, Khan M, Saini JP (2020). Assessment of Human Arm Bioelectrical Impedance using Microcontroller Based System. *International journal of integrated engineering*, 12 (4): 172-181.

*(Impact factor = 1.02, Cite Score=0.94, H-index = 5, SJR = 0.172).*

12. Khan M, Khan, MT, Hasan M (2019). High efficiency RF energy harvesting CNTFET rectifier for bio-implants applications. *International Journal of Engineering and Advanced Technology* 2019; 9(1), pp. 4396-4402.

*(Impact factor = 1.02)*

13. Pawar C, Khan M, Saini JP (2018). Design and analysis of adjustable constant current source with multi frequency for measurement of bioelectrical impedance. *International Journal of Applied Engineering Research*, 13 (1): 262-267.

*(Impact factor =0.51, Cite Score=0.94, H-index = 25, SJR = 0.122).*

14. Khan M, Mahmoud ASA (2018). TS Fuzzy Controller of Maglev System Based on Relaxed Stabilization Conditions. *Lecture Notes in Networks and Systems*; Springer Nature 2018; 7: 555-563.

15. Vashisth S, Khan M, Vijay R , Salhan AK (2017). A review of high G-stress induced problems and their solutions. *International Journal of Medical Engineering and Informatics*, 9(1):47-60.

*(Impact factor =0.291 Citation Index: Cite Score= 0.627 & H=10).*

16. Khan M, Vashisth S, Vijay R, Salhan AK (2016). Non-invasive measurement and subsequent analysis of human carotid pulse for ground based simulation of G-stress. *International Journal of Bioinformatics Research and Applications*, 12(3): 227-237. *(Impact factor = 0.470 Citation Index: Cite Score= 0.518, H-Index =15).*

17. Mahmoud ASA, Khan M, Siddique AS (2016). Robust  $H_{\infty}$  State feedback controller for discrete-time takagi-sugeno systems. Journal of Electrical Engineering, 16(4): 467-473.  
(*Impact factor* = 0.697, *Cite Score*=0.88, *H-Index* = 23, *SJR* = 0.231).
18. Khan M and Jahan M (2016). Sub-vocal speech pattern recognition of Hindi alphabet with surface electromyography signal. Perspectives in Science, 8: 558-560.
19. Khan M, Sirdeshmukh SPSMA, Javed K (2016). Evaluation of bone fracture in animal model using bio-electrical impedance analysis. Perspectives in Science, 8: 567-569.
20. Khan M, Sharma BB, Javed K (2016). Pervasive Approach to Acoustic Source Perception in Horizontal Plane. Perspectives in Science, 8: 667-669.
21. Khan M, Singh AK, Iqbal SS (2015). SPICE Simulation of Implantable Solar Power Supply for Sustainable Operation of Cardiac Biosensors. International Journal of Biomedical Engineering and Technology 2015; 18(2): 168-185.  
(*Impact factor* = 0.57, *Cite Score*=0.778, *H-Index* = 13, *SJR* = 0.24).
22. Sondhi S, Khan M, Vijay R, Salhan AK, Chauhan S. Acoustic analysis of speech under stress. International Journal of Bioinformatics Research and Applications 2015; 11(5): 417-432.  
(*Impact factor* = 0.47, *Cite Score*=0.476, *H-Index* = 15, *SJR* = 0.149).
23. Khan M, Zaheeruddin, Singh AK. Solar cell based DC-DC boost converter for implantable cardiac pacemaker: a computer simulation. International Journal of Biomedical Engineering and Technology 2013; 12 ( 3): 215-227.  
(*Impact factor* = 0.57, *Cite Score*=0.778, *H-Index* = 13, *SJR* = 0.24).
24. Vashisth S, Khan M , Vijay R , Salhan AK. Online acquisition and wireless transmission of carotid pulse waveforms to analyse posture related changes. International Journal of Biomedical Engineering and Technology 2012; 10 ( 3): 255-265.  
(*Impact factor* = 0.57, *Cite Score*=0.778, *H-Index* = 13, *SJR* = 0.24).
25. Bansal D, Khan M, Salhan AK. A Real Time Embedded set up Based on Digital Signal Controller for Detection of Bio-Signals Using Sensors. Sensors & Transducers 2009; 105 (6): 26-32  
(*Impact factor* = 0.57, *Cite Score*=0.195, *H-Index* = 12, *SJR* = 0.145).
26. O'Hara, R.B., Khan M, R.L, Pohlman, J.F. Schlub, L.L Laubach, E. Eveland (2007). Effects Of Increased Leg Resistance Training And Reduced Aerobic Training On Selected Physiological Parameters In United States Air Force Men And Women. International Journal of Exercise Physiology (Online), 10(5): 16-34.  
(*Impact factor* = 0.29, *Cite Score*=0.355, *H-Index* = 22, *SJR* = 0.214).
27. Khan M, Reggie OH, Pohlman RL, Goldstein DB, Guha S.K (2005). Multi-Dimension Applications of Bioelectrical Impedance Analysis. International Journal of Exercise Physiology (Online ), 8(1): 56-71.  
(*Impact factor* = 0.29, *Cite Score*=0.355, *H-Index* = 22, *SJR* = 0.214).

28. Reggie OH, Khan M, Pohlman RL, Schlub J (2004). Leg resistance training: effects upon cardiovascular fitness (vo2 peak) and skeletal muscle myoplasticity. International Journal of Exercise Physiology (Online ), 7(5): 27-43.  
(Impact factor = 0.29, Cite Score=0.355, H-Index = 22, SJR = 0.214).

### **Other than SCI and SCOPUS Indexed International Journals**

29. Brajesh KM, Pal K, Khan M (2020). Assessment of Human Joints Using Bioelectrical Impedance Technique. Studies in Indian Place Names (UGC Care Journal) 40 (10, February 2020, pp. 278.  
(Impact factor = 6.3 (RF))
30. Khan MT, Khan M, Hasan M (2018). Low voltage CNTFET rectifier for wirelessly power up of implantable devices. International Journal of Research and Analytical Reviews 2018; 5: 126-132.  
(Impact factor = 5.75).
31. Khan MT, Khan M, Hasan M (2018). A Low Voltage High Efficiency CNTFET Based Rectifier for Wirelessly Power Up of Biomedical Implantable Devices. International Journal of Scientific Research and Review 2018; 7(11): 93-103.  
(Impact factor = 6.1).
32. Sharma BB and Khan M (2016). Acoustic Source Perception of Human Under Noise: A Comparative Assessment. International Journal of Computer Applications, 2: 1-4.  
(RG Journal Impact: 0.33)
33. Khan M and Sharma BB (2015). Design and implementation of acoustic source for analysis of sound perception. Journal of Basic and Applied Engineering Research 2015; 2(10): 800-803.  
(RG Journal Impact: 0.26)
34. Khan M, Mehruz S, Khan GP, Goswami PN (2015). Multi-compartmental Models to Assess the Body Composition of Indian Subjects and Validation of Result by Developing Prediction Equation. International Journal of Research Studies in Biosciences, 3 (5): 209-228.
35. Khan M and Jahan M (2015). The application of AR coefficients and burg method in Sub-Vocal EMG pattern recognition. Journal of Basic and Applied Engineering Research 2015; 2(10): 813-815.  
(RG Journal Impact: 0.26)
36. Khan M, Sondhi S, Vijay R, Salhan AK (2015). Fundamental Frequency of Voice under Normobaric and Hypobaric Hypoxia. Indian Journal of Aerospace Medicine, 59 (2): 37-43.  
(Indexed in the Google Scholar, CrossRef, ReadCube, National Science Library, Index Copernicus)
37. Sondhi S, Khan M, Vijay R, Salhan AK (2015). Effect of Normobaric and Hypobaric Hypoxia on Formant Characteristics of Human Voice. International Journal of Computer Applications 2015; 122(15): 32-37.  
(RG Journal Impact: 0.33)

38. Sondhi S, Khan M, Vijay R, Salhan AK, Sharma SK (2015). Vocal Indicators of Emotional Stress. *International Journal of Computer Applications* 2015; 122(15): 38-43.  
(*RG Journal Impact: 0.33*)
39. Khan M, Mehfuz S, Khan GP (2014). Interpreting health status of Indian population using phase angle as health parameter. *International Journal of Research in Engineering and Science* 2014; 2(8): 45-56.
40. Khan M, Mehfuz S, Khan GP (2014). Interpreting health status of mixed population using BCA. *Wyno Academic Journal of Medical Sciences*, 3(1): 1-18.
41. Khan M, Mehfuz S, Khan GP (2014). Generalized Sex and Age Specific Body Composition Prediction Equations for Indian Subjects. *International Journal of Computational Engineering Research*, 4(3): 1-17.  
(*AQCJ Impact factor = 6.41*).
42. Vashisth S, Khan M , Vijay R , Salhan AK (2013). Acquisition and Analysis of Human Carotid Pulse Waveforms during Tilt Table Maneuvers. *International Journal of Applied Biomedical Engineering*, 6(1): 32-39.  
(*Impact factor = 0.267*).
43. Khan GP, Khan M, Mehfuz S (2013). Development and Validation of prediction for estimating resting energy expenditure in Indian subjects. *IOSR Journal of Electrical and Electronics Engineering*, 7 (2): 06-09.  
(*AQCJ Impact factor = 0.267*).
44. Khan GP, Khan M, Mehfuz S (2013). Development of Bioelectrical Impedance Analysis Equations (BIA) Equations to Predict Body Composition of Indian Males. *World Applied Programming* 2013; 3(1): 14-33.
45. Khan GP, Khan M, Mehfuz, S (2013). Comparative study of 2C molecular level, 3C water molecular level and 3C mineral molecular level of Indian subjects. *International Journal of Advancements in Research & Technology*, 2 (2): 1-21.  
(*Impact factor = 2.2*)
46. Khan GP, Khan M, Mehfuz S (2013). Generalized Sex and Age Specific Body Composition Prediction Equations for Indian Subjects. *International Journal of Computational Engineering Research*, 3(12): 1-15. Impact factor- 1.1414  
(*AQCJ Impact factor = 6.41*).
47. Urooj S, Khan M, Ansari AQ, Salhan AK (2013). Measurement of Thoracic Impedance and Approximations: A Diagnosis Technique for Clinical Utilization. *Indian Journal of Industrial and Applied Mathematics* 2013; 4(1a): 61-67.  
(*RG Journal Impact: 0.50*)
48. Khan GP, Khan M, Mehfuz S (2013). Developing linear multiple regression model of Indian males and validating the results with BIA analyser. *Wyno Academic Journal of Medical Sciences* 2012; 1(1): 12-24.

49. Bansal D and Khan M (2011). Realization of Digital Filter structures in MATLAB. International Journal of Communication and Computer, 8 (2): 150-152. (*Impact factor = 0.233*)
50. Khan GP, Khan M, Mehruz S. Multi-frequency Bioelectrical Impedance Analysis (BIA) for Assessing TBW and FFM of Indian Females. International Transactions in Mathematical Sciences and Computers 2011; 4: 47-64.
51. Urooj S, Khan M, Ansari AQ. Thorax: Physiological Monitoring and Modeling for Diagnosis of Pulmonary Edema. International Journal on Measurement Technologies and Instrumentation Engineering 2011; 1(2): 54-60.
52. Goswami PN. Khan M, Moinuddin. Human body composition methods: Recent advances and directions of research. International Journal of Pure and Applied Mathematika Sciences 2008; 67 (1): 65-81.
53. Goswami PN. Khan M, Moinuddin. Bio-impedance analysis, its merits, recent advances and clinical applications-A review. International Journal of Pure and Applied Mathematika Sciences 2008; 67 (1): 35-52.
54. Urooj S and Khan M. Sub-optimal controller for airframe model of harrier AV-8A VTOL Aircraft. South East Asian Journal of Mathematics and mathematical sciences 2008; 7(1): 77-88.
55. Khan M and Guha SK. Prediction of simulated Blood Pooling in the Leg Segment of an Aircraft pilot under G stress. Indian Journal of Aerospace Medicine 2004; 48 (1): 47-52. (*Indexed in the Google Scholar, CrossRef, ReadCube, National Science Library, Index Copernicus*)
56. Khan M. Computer design of biofeedback controller for an anti G suit. Indian Journal of Aerospace Medicine 2004; 48 (2): 63-67. (*Indexed in the Google Scholar, CrossRef, ReadCube, National Science Library, Index Copernicus*): **Protected by US copyright Law.**

## ARCHIVAL ABSTRACTS in the SCI Indexed International Journals

57. Khan M, and Rehan A (2020). Simultaneous assessment of blood flow in the carotid and dorsalis pedis arteries under orthostatic stress. *Aerospace Medicine and Human Performance*, 91 (3): 156.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62*).
58. Sharma BB and Khan M (2020). Wireless assessment of acoustic source perception by human subjects in the median plane. *Aerospace Medicine and Human Performance*, 91 (3): 158.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62*).
59. Khan M, Sharma SK , Salhan AK, Tevatia T, Rao S (2019). Fingure tapping test for assessment of psychomotor functions on extended stay at high altitude. *Aerospace Medicine and Human Performance* 2019; 90 (3): 187  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62*).
60. Khan M, Sharma SK , Salhan AK (2018). Assessment of finger tapping test for human fatigue and effectiveness of glutamic acid supplementation at high altitude. *Aerospace Medicine and Human Performance* 2018; 89 (3): 201  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62*).
61. Khan M and Sharma BB (2017). Noise measurement of cargo aircraft at staff residence of airbase. *Aerospace Medicine and Human Performance* 2017; 88 (3): 216.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62*).
62. Khan M, Sharma BB, Ohara R, Salhan A K (2016). Assessment Of Sound Source Perception Of Human Under Noise Induced Stress. *Aerospace Medicine and Human Performance* 2016; 87(3): 207.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
63. Sharma B B, Khan M, Vasisth S (2016). Assessment Of Simulated Blood Pooling In Forearm Of An Aircraft Pilot. *Aerospace Medicine And Human Performance* 2016; 87(3): 183-184.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
64. Khan M, Sondhi S, Vijay R, Sharma SK , Reynolds DB , T. Goswami T, Salhan AK. Effect of normobaric and hypobaric hypoxia on fundamental frequency of human voice. *Aerospace Medicine and Human Performance* 2015; 86 (3): 258.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
65. Khan M, Vashisth S, Vijay R, Salhan AK. Assessment of heart rate variability during simulated push-pull maneuver using tilt-table. *Aerospace Medicine and Human Performance* 2015; 86 (3): 297.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).

66. Khan M, Sharma SK, Reynolds DB, Pohlman RL. Quantitative assessment of blood pooling in human lower limb due to gravity. *Aviation, Space and Environmental Medicine* March 2014; 85 (3): 33-334.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
67. Salhan AK, Khan M, Sharma S. High voltage electro-photographic changes in humans exposed to high altitude. *Aviation, Space and Environmental Medicine* March 2014; 85 (3): 250-51.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
68. Khan M, Salhan AK, Guha SK. Biophysical model simulation study of biofeedback controller for g stress management. *Aviation, Space and Environmental Medicine* March 2012; 83(3): 292-93.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
69. Salhan AK, Khan M, Sondhi S, Vijay R. Online offline voice stress analyzer. *Aviation, Space and Environmental Medicine* March 2012; 83 (3): 309.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
70. Dd Khan M, Bansal D, Pohlman RL, Reynolds DB. Online acquisition and wireless transmission of carotid pulse wave to study push-pull maneuver. *Aviation, Space and Environmental Medicine* March 2011; 82 (3): 288.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).
71. S Khan M, Salhan AK, Guha SK. Design and development of a low cost anti g valve. *Aviation, Space and Environmental Medicine* March 2009; 80 (3): 313.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).
72. Khan M, O'Hara RB, Reynolds DB, Pohlman RL, Guha SK. Assessment of induced blood pooling in the animal model placed in different postures using tilt-table. *Aviation, Space and Environmental Medicine* March 2009; 80 (3): 221.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).
73. Khan M, O'Hara RB, Reynolds DB, Salhan AK, Pohlman RL. Assessment of gravitational blood pooling in the leg of human volunteers using non-invasive technique. *Aviation, Space and Environmental Medicine* March 2008; 79 (3): 235.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).
74. Pohlman RL, Hegde VA, Haas D, Khan M. Hemodynamic Responses of Cardiac Patients to Resistance Testing. *Medicine & Sciences in Sports & Exercise* 2008; 40 (5): S181.  
(*Impact factor= 4.320, Cite Score= 4.34, SNIP=1.669, SJR=2.071, and H=203*).
75. Khan M and Salhan AK. Biofeedback controlled anti-g suit: a computer simulation. *Aviation, Space and Environmental Medicine* March 2007; 78 (3): 146.  
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).

76. Khan M, Urooj S, Reggie OH, Pohlman RL, and Reynolds DB. A microprocessor based system for non-invasive measurement of high-altitude pulmonary edema. Aviation, Space and Environmental Medicine March 2007; 78 (3): 45.  
*(Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50).*
77. Khan M, Reggie OH, Pohlman RL, Guha SK. Modeling to predict leg segment blood Pooling of an Aircraft Pilot Under G-Stress. Aviation, Space and Environ Medicine March 2005; 76 (3): 263.  
*(Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50).*
78. Khan M and Guha SK. Electrical Impedance Analysis for Simulated Arm Blood Pooling of an Aircraft Pilot Under G-Stress. Aviation, Space and Environmental Medicine April 2003; 74 (4): 406.  
*(Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50).*



### SCOPUS Indexed Proceedings

79. Sharma, B.B., Khan, M. (2019). Impact of Noise on Inclusive Performance of Learner in An Educational Institute. International Conference on Power Electronics, Control and Automation, ICPECA 2019 at JMI New Delhi, India. pp. 1-4.  
*IEEE DOI: 10.1109/ICPECA47973.2019.8975553*
80. Reza MQ, Khan M, Shaila PSMA Sirdeshmukh, Salhan AK (2019). Classification of different materials using their acoustic signals. International Conference on Power Electronics, Control and Automation, ICPECA 2019 at JMI New Delhi, India. pp. 1-4.  
*IEEE DOI:10.1109/ICPECA47973.2019.8975407*
81. Khan MT, Khan M, Hasan M (2019). Carbon nanotube FET based power shaping circuit used in Biomedical Applications. International Conference on Power Electronics, Control and Automation, ICPECA 2019 at JMI New Delhi, India. pp. 1-5.  
*IEEE DOI: 10.1109/ICPECA4 7973.2019.8975441*
82. Sharma BB and Khan M (2019). Wireless Assessment of Acoustic source perception in Noisy Environment. International Conference on Advancements in Computing & Management; 12-14 April 2019 at Jagannath University, Jaipur, Rajasthan, India. PP. 88-91  
*ELSEVIER doi.org/10.2139/ssrn.3446637*
83. Khan, M., Reza, M.Q., Sirdeshmukh, S.P.S.M.A. (2018). A prototype model development for classification of material using acoustic resonance spectroscopy. IMPACT 2017 - International Conference on Multimedia, Signal Processing and Communication Technologies. pp. 128-131  
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