Dr Javeed Hussain

CEng(I), MIEEE, MIET, MISTE, MIE, PhD, PRINCE 2®

Deputy Head of Department

Department of Electronics and Telecommunication Engineering
Global college of engineering and Technology
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1. Education

Prince 2 Agile certified - Project Management Skills (PMP)   **08/2019**
(Awarded by People Cert and Axelos)

PG Certificate- Post Graduate certificate on Academic Practices   **07/2019**
(Awarded by University of West of England)

PhD –Electronics and Communication Engineering
JNTUH University, Hyderabad, India   **03/2016**

M. Tech – Digital Electronic & Communication systems
JNTU university, India   **12/2006**

B. Tech– Electronics & Communication Engineering
JNTUA University, India   **04/2004**

2. Teaching Experience

Deputy Head & Program Leader (Automation and Robotics Engineering)
GCET Oman, Affiliated to UWE Bristol, UK   **10/2016 – Till Date**

- Teach Undergraduate & Post graduation students in the field of expertise. In practice, need to record the session/ online session teaching and keep all material available to the students prior to session in the Blackboard.
- Lead the delivery of the programme to ensure it meets the operational requirements of the department, faculty and the academic regulations of the university.
- Lead the day to day delivery of the programme to high academic standard whilst also meeting internal and external regulations.
- Enhance the student experience focussing on the recruitment, retention and achievement of students on the programme and being the key interface with other staff from services, faculties and external bodies where relevant.
- Work with the Head of Department and Associate Heads to input into how the programme will be delivered and to raise and address any student or staffing concerns.

- Review Award Board data for anomalies or major issues e.g. progression or retention; support other members of the programme team in dealing with student issues.
- Contribute to the development of the programme and/or associated new programmes in collaboration with the design team and designated professional administrators, to ensure academic content, coherence, quality and conformity with university regulations in order to meet the changing requirements of the faculty.
- Provide an annual programme report with an overview of market and student performance, retention and progression plus other reports as required.
- Identify areas of student feedback, respond to external examiner's comments and identify features of best practice and issues of development.
- Chair the Student Representative Staff Forums (SRSFs) which run three times a year and addressing issues raised.
- Promote participation in enhancement features such as Peer assisted learning (PAL), Academic Personal Tutors (APTs), participation in activities and events hosted and/or supported by Professional, Statutory and Regulatory Bodies (PSRBs) and other student facing activities.

Associate Professor
MITS, India   09/2014 – 09/2016

- Develop and implement innovative instructional methods.
- Develop professional logistics to improvise student performance.
- Guide, Lead and mentor students in research projects.
- Evaluate, monitor and mentor student academic progress.
- Create, innovate and implement career-enhancement programs and activities.
- Supervise and support teaching assistants.
- To teach undergraduate and Post graduate level modules allocated & reviewed by Head of Department.
- To assist in the development of learning materials, preparing schemes of work and maintaining records to monitor student progress, achievement and attendance.
- To participate in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department.
- To participate in the administration of the department programme of study and other activities as requested.

Head of the Department
BCET, India   03/ 2008 - 08/ 2014

- Allocate the modules/subjects to the faculty members well in advance before commencement of the semester/year.
- Collect lesson plans from teaching staff before the commencement of class works and ensure that the information provided is in accordance with the format.
- Make sure that the time tables are prepared as per the guidelines given by the principal and inform the faculty members and students at least one day before the commencement of the class work.
- Convene departmental staff meetings once in a week on the day allocated and record the minutes of the meeting.
- Counsel the students who are absent for the mid test or irregular to the class work.
- Communicate the attendance particulars and internal marks of students to the concerned parents from time to time with the help of class advisors.

Assistant Professor
AITS, India   09/ 2005 - 07/ 2007

- Create, innovate and implement career-enhancement programs and activities.
- Participate in Departmental and College activities.
- Serve and support functional activities of departmental committees.
- Assist, review and evaluate student activities and progress.

- Grade papers and test; prepare exercises, lessons and lab experiments for the students.
- Teach graduate as well as the undergraduate students within their field of expertise.

3. Quality Assurance Experience

- Involved in editing, writing the quality inspection reports of AICTE (All India Council of Technical Education) and Affiliation reports of JNT University.
- Participated and involved in preparing the curriculum for UG and PG programs for the Department of Electronics and Communication Engineering as autonomous college coordinator during the process of autonomy approval for a University.
- Established Assessment Quality Department for an Engineering college from inception.
- Reviewed, Evaluated the reports of curriculum design for Electronics and Communication Engineering Department.
- Prepared assessments in my subject expertise areas for different Universities of India.
- Prepared assessments, Course work, Module files, Program reports for Electronics and Telecommunication Department in Oman.
- Involved and contributed in drafting, writing, editing and finalizing the OAAA Quality report.

4. Quality\Administrative roles

- **Acted as External Examiner, University Marker and preparing assessments for different Universities/Colleges of India.**
- **Acted as judge in Various Technical events in Oman and India.**
- **IET college coordinator and Chair of 'Robotics club' at** GCET, Oman from 3+ years.
- **Autonomous Department Coordinator** for MITS, Madanapalle, Andhra Pradesh. MITS successfully accredited with **NAAC grade A and also NBA accredited**.
- **IEEE college coordinator Student branch** of MITS, Madanapalle, Andhra Pradesh.
- **Member of Board of Studies** for ECE Department of AITS, Rajampeta, Andhra Pradesh for two years during 2010-12.
- **Executive Member** of IEI Local centre representing ECE section at IEI local Centre Kadapa, Andhra Pradesh during tenure 2011-13.
- **Examinations in-charge** acted as **chief superintendent** in conducting EAMCET, ICET, Group 1 & 2 and other Government examinations during the tenure 2009-13.
- **NSS Coordinator & IEI student chapter coordinator** of BCET College, A. P for two years.

5. Collaborative Research Work

- Conducted collaborative research work for the DST-CSRI, Govt of India, research project 'Design & Development of Brain Test Adequacy system to improve the cognitive index of Young India using Brain Sensor and Artificial Neural Networks' of worth Rs. 30,00,000/-

- Worked for World Bank Funded Project under SEED-TEQIP grants, on the "Detection of brain activity with an automated system hardware for accurate diagnostic of mental states of young brain to improve learning mechanism" of worth Rs. 48,500/-

- Conducted research work on Funded project by RREA-MITS, 'Analysis of brain using EEG Sensor' of worth Rs. 1,00,000/-

6. Membership of Professional Bodies

I hold the memberships of the following high esteem organisations.

- Chartered Engineer CEng (I)-10/2018.
- IEEE – 93357674.
- IEI - AM97485.
- IAENG - 148028.
- Life member ISTE - LM 73467.
- Life member IJERIA - LM 2175.
- Life member IJMRAE - LM 303040.
- UACEE – SNM1010001553
- ACM -5969453
- Member of Editorial Board IJSCE
- Reviewer/Committee of ICCTD 2011- EN- D1040
- Reviewer IEEE-Journal of biomedical and health informatics.

7. Continuous Development Programmes (CDP)

E- Learning/Certifications:

- "**IBM Professional Certification on Data Science**" is in progress offered by IBM in Coursera, **9 months program**, Credential ID: KBXLDD39JRP9.
- "**Machine Learning using Python**" Completed and Certified by IBM in Coursera, Credential ID: HDZBT76L5FXV.
- "**Introduction to Cyber Security**" Completed and trained by CISCO Networking Academy.
- "**Intelligent Control of connected and automated vehicles**", completed and certified by IEEE Continuing Education, Credential ID: 0003849.
- "**Introduction to Quantum computing**", Completed and certified by Saint Petersburg State University in Coursera, Credential ID: K8HVHNA8NUSQ.
- "**Transparency and Accountability for Robots and Artificial Intelligence Systems**", Completed and Certified by IEEE Continuing Education, Credential ID: 0003849.
- "**The Digital Grid**", Completed and Certified by IEEE Continuing Education, Credential ID: 0003849.
- "**Machine Learning & Training Neural Networks in Matlab**" completed and certified by Udemy educational platform, Credential ID: UC-BUJXS109.
- "**Values by Design in the Algorithmic Era**", Completed and Certified by IEEE Continuing Education, Credential ID: 0003849.
- "**Enterprise Block chain for the Internet of Things**", Completed and Certified by IEEE continuing Education, Credential ID: 0003849.

Quality trainings/Certifications:

- "Intellectual Property (IP)" Completed and Certified by World Intellectual Property Organization (WIPO), Credential ID: xUStVbDwfI.
- "**Quality Management System (QMS) –ISO 9001:2015**" completed the training and certified by Alison certifications, Credential ID: 1907-545975.
- "**ISO Management System Audit Techniques and Best Practices**" Completed the training and certified by Alison Certifications, Credential Id: 1373-545975
- "**E-Tutorial on Using Patent Information**", Completed and Certified by World Intellectual Property Organization (WIPO), Credential ID: xUStVbDwfI.
- "**Introduction to the Patent Cooperation Treaty**", completed and certified by World Intellectual Property rights Organisation (WIPO), Credential ID: B8QDuEsz3F.
- "**Outcome Based Education**" on Jan 6, 2015, as Part of the Pre-conference activity of ICTIEE **2015**, jointly by Indo-US collaboration for Engineering Education.

7.1 Appreciations/Awards/ other publications

- **Awarded with Certificate of High Achievement** in recognition of **"Exceptional teaching performance"** by GCET & UWE on September 29 2019, Muscat, Oman.

- **Awarded with Certificate of appreciation** by IET Oman section as "**Best Event Organizer**" at GCET on April, 2018, Muscat, Oman

- **Awarded with Certificate of Merit** by Andhra Pradesh State Skill Development for best performance in training program on "**Raspberry pi and Arduino board**" MITS, Madanapalle on Nov 2015.

- **Awarded with "Academic Excellence Award"** by the CEO and Chairman of Bharath College of Engineering and Technology for women, December 5, 2013.

- **Awarded with Certificate of appreciation** by Chairman, IEI Local Chapter Kadapa for "**Best student Coordinator**" on June 2011, A. P. India.

- **Author of a Textbook** entitled "**A Design of Dynamic Robotic-Arm controller using Raspberry pi**", ISBN No: 978-3-659-92951-9

7.2 Scientific Articles and Report Writing skills

- I am fully engaged in World Class research activities, since my PhD; I have published 19 journal publications in high quality journals.

- I have excellent presentation and communication skills. I regularly present and participate in high esteem International Conference.

Skills in Analytical Techniques

- I have very good skills to deploy the Simulink/programs on the boards and apart from that Matlab programming on image processing of medical images especially MRI, fMRI images and also on 3-D imaging techniques.

- I hold good skills in advanced microprocessors and microcontrollers programming using embedded C, high level programming and Matlab Simulink on embedded boards for practical applications

- I am a certified trainer of the advanced embedded boards such as Raspberry pi, Arduino and have very good experience in Beagle bone and Texas Instruments

7.3 Communication and Presentation Skills/Software Skills

- Invited speaker in various universities and countries such as, IIIT (Hyderabad), Amity University (Uzbekistan).

- Presented a technical hand's on session for "Hands on Training program of PCB Design & Fabrication" under IEEE student chapter in MITS, Madanapalle.

- Presented my research at national level such as, IIT Kharagpur, Amity University, Anna University, JNTU University and Department of Electronics and Communication, institute of Engineers (IEI) as an invited guest speaker.

- Participated in international conferences i.e. IPCSIT 2011 Singapore, and Second International Conference on Internet of Things, Data, and Cloud Computing (ICC 2017) University of Cambridge, United Kingdom.

Software Skills

- Software packages such as Image J, Embedded C, Matlab & simulink package, Python, Arduino Programming, PLC programming (Ladder Diagrams), Proteaus, Xilinx.

Journal & Conference publications

1. S. A. Hussain, Sana Al Ghawi, Budoor Al Rawahi, **Javeed Hussain**, "Design and Implementation of Indoor environment Monitoring and Controlling system", International Journal of Advanced Science and Technology, vol. 29 No. 29(3s), March 2020.

2. Y. Kenesh, Ashraf Gasm Elsid, **Javeed Hussain**, "Barriers effects and a Secure system for payments over mobile in sudan", International Journal of Recent Technology and Engineering, Vol-9, Issue-1, May 2020.

3. S. A. Hussain, Raza Hasan, Salman Mahmood, **S. J. Hussain**, "Design of Wireless robotic system for rescue operation in hazardous environments", International Journal of Mechanical Engineering and robotics research, Vol.9, No.2, Feb 2020.

4. **S. Javeed Hussain**, Samiullah khan, Raza Hasan, S. Asif Hussain, "Design and Implementation of Animal Activity monitoring system using TI sensor Tag", In: Mallick P., Balas V., Bhoi A., Chae GS. (eds) Cognitive Informatics and Soft Computing. Advances in Intelligent Systems and Computing, vol 1040. Springer, Singapore, Jan 2020

5. G. Al Muhaidhri, **Javeed Hussain**, "Smart attendance system using face recognition", International Journal of Engineering research & technology, ISSN 2278-0181, Vol.8, Issue 12, Dec 2019, DOI : http://dx.doi.org/10.17577/IJERTV8IS120046.

6. K. Al Zaabi, **Javeed Hussain**, "Design and Implementation of Flow meter maintenance robot for oil & gas industries", International Journal of Engineering research and technology, ISSN 2278-0181, vol.8, Issue 12, Dec 2019, DOI : http://dx.doi.org/10.17577/IJERTV8IS120036.

7. S. A. Hussain, Raza Hasan, **S. J. Hussain**, "Classification and Detection of Plant disease using Feature extraction methods" International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 13, Number 6 **Jan (2018)** PP. 4219-4226.

8. Shaik Asif Hussain, Haitham Mohammed Ibrahim Al Balushi, **S. Javeed Hussain** (2017) "Detection of Brain Activity with an automated system Hardware for accurate diagnostic of mental disorders" proceeding in 2nd International Conference on data, IOT and cloud Computing, (ICC 2017) to be published in ACM, **March 22-23 2017**, Cambridge University, U.K., ISBN 978-1-4503-4774-7/17/03, DOI: 10.1145/3018896.3025127

9. N. Manjula, **S. Javeed Hussain**, U. sreenivaulu, "A Dynamic Raspberry Pi Sense Hat Multimodality Alerting System by using AWS IOT", Indian Journal of science and Technology, Vol9(39), DOI: 10.17485/ijst/2016/v9139/95796, October **2016**.

10. S. A. Hussain, Chandra Shekhar, **S. Javeed Hussain**, "A Parallel Approach to segment and classify parenchyma and pathological tissues for MRI Brain Images",(Chennai) IEEE Sponsored 3rd international conference on Innovation in Information, Embedded and communication systems, held on **17th & 18th March 2016.**

11. **S. Javeed Hussain**, S. Asif Hussain, Ajay vikram singh, "A Wireless Device for Patient ECG monitoring and motion Activity recording for medical applications",(Delhi) International Conference on Reliability, Infocom Technologies and optimization 2016, Amity University, Technically Sponsored by IEEE and CSI, 7-9 **sept 2016**, published in IEEE Explore, DOI:10.1109/ICRITO.2016.7785032

12. Asif Hussain, Madhav Prabhu, **S. Javeed Hussain**, Chandrasekhar Ramaiah, "Robot Manipulator with a tactile sensor for object recognition in Industrial welding process", IJCTA, 9(17)**2016**,pp 8378-8381, International science press

13. Govardhan, **S. Javeed Hussain**, Jilani, "A Smart Gadget to Analyse the Weather Changes using Sense Hat sensor & Internet of Things (IOT)", IJST, Vol 9(35), 10.17485/ijst/2016/v9i35/95768, September **2016**

14. **S. Javeed Hussain**, R. Chandana, S. A. K. Jilani, "Smart surveillance system using Thing Speak and Raspberry Pi" International Journal of Advanced Research in Computer and Communication Engineering, Vol. 4, Issue 7, July **2015**.

15. M. Anil kumar, S. A. K.Jilani, **S. Javeed Hussain**, U. Sreenivasulu, "Automated color recognition system for visually challenged and achromatopsia people using Arduino and Mobile App", International Journal of Advanced Research in Electronics and Communication Engineering, Vol. 4, Issue 8, August **2015**.

16. J. Manasa, J. T. Pramod, S. A. K. Jilani, **S. Javeed Hussain**, "Real Time Object Counting using Raspberry pi", International Journal of Advanced Research in Computer and Communication Engineering, Vol. 4, Issue 7, July **2015**.

17. V. Hemanth Kumar reddy, S. A. K. Jilani, **S. Javeed Hussain**, "Replication and Study of Kapagene Generator", International Journal of Engineering Trends and Technology, Vol.28, No.3, October **2015**.

18. **S. Javeed Hussain**, S. Nagajyothi, Dr. S. A. K. Jilani, "A Dynamic 2-D FFT Video Focus Assessment Algorithm for Real Time Video stabilized Googles using Raspberry pi", International Journal of Engineering Research & Technology, Vol. 4, Issue 07, July **2015**.

19. **S. Javeed Hussain**, M. Ravi kumar, Dr. S. A. K. Jilani, P. R. Ratna Raju, "An Automated Thingspeak system representing MPU6050 sensor data using Raspberry pi", IJETT, Vol. 29, No.01, Nov **2015**

20. B. Sukumar, V. Krishna Chaitanya reddy, **S. Javeed Hussain**, "ARM 9 Based Intelligent System for Biometric Figure Authentication", TELKOMNIKA Indonesian Journal of Electrical Engineering, Pg. No. 209-214, Vol. 13, No. 2, Feb **2015**.

21. S. Ayesha, **S. Javeed Hussain**, "Analysis and Synthesis of Barcode Using Image Processing" 2nd National Conference on Recent Trends in Signal Processing on 18-19th Feb **2015**, ISBN No. 978-93-85100-01-7, MITS, Madanapalle

22. **S. Javeed Hussain**, T. Satya savithri, "A Dynamic algorithm to Isolate Non-Cerebral Tissues of Brain MR Images", IJETCAS, Vol. 3, No. 14-794, Nov **2014**, PP: 250-253.

23. **S. Javeed Hussain**, T. Satya savithri, P. V. Sree Devi, "Detection of Hydrocephalus Lateral Ventricles Quantitatively in Brain MRI Images of Infants", IJCA, http://dx.doi.org/10.5120/14475-2698, Vol. 83, No. 15, Dec **2013**.

24. **S. Javeed Hussain**, T. Satya savithri, P. V. Sree Devi, "Segmentation of Tissues in Brain MRI images using Neuro-Fuzzy Techniques", IJSCE, Vol.1, Jan **2012**, PP: 416-423.

25. **S. Javeed Hussain**, C. Venatesh, S. Asif Hussain, L. Chetana,V. Gireesha, "Segmentation of Normal and pathological Tissues in MRI Images using Dual Classifier",(Singapore) 2011 International conference on Advancements in Information Technology, IPCSIT Vol.20 (**2011**) IACSIT press.

26. **S. Javeed Hussain,** T. Satya savithri, P. V. Sree Devi, "A Hybrid Neuro Fuzzy Expert system for detection of tissues in MRI brain images" (Kanyakumari) Published in **2011**. IEEE International conference on computational Intelligence and computing research by IEEE press and in IEEE explore, India.

27. **S. Javeed Hussain**, T. Satya savithri, P. V. Sree Devi, "Segmentation of brain MRI with statistical and 2D wavelet features by using Neural Networks", (Chennai) Published in 3rd International conference TISC-**2011** by IEEE press and IEEE explore, Chennai, India. Pg. No. 154-159, DOI. 10.1109/TISC.2011.6169104, INSPEC Accession No. 12617248.

28. **S. Javeed Hussain**, T. Satya savithri, P. V. Sree Devi, "A Hybrid Intelligence approach for segmentation of brain parenchyma and cerebrospinal fluid in MRI images", (Kerala) Published in **2011** IEEE, ICCCE, India.

29. **S. Javeed Hussain**, T. Satya savithri, P. V. Sree Devi, "A Hybrid Neuro-Fuzzy Approach for Segmentation of Sub cortical brain structures", IJERIA, Vol. 4, No. II, May **2011**, PP: 267-278.

30. **S. Javeed Hussain,** T. Satya savithri, P. V. Sree Devi, "Hybrid System Applications in Computer Vision- A review" IJMRAE, Vol. 3, No. IV, Oct **2011**, PP: 15-22.

31. **S. Javeed Hussain**, T. Satya savithri, P. V. Sree Devi, "Segmentation of pathological and Healthy Tissues with reduced Weighted Vectors using Hybrid Intelligence Technique", IJERIA, Vol. 4, No. II, May **2011**, PP: 315-322.

32. S. A. K. Jilani, S. Shakeel Ahamed, S. Javeed Hussain, "Comparative study of face representation methods for efficient face recognition survey paper" international j. of engg. Research & indu. appls. (ijeria) issn 0974-1518, vol.4, no. ii (may **2011**).

33. **S. Javeed Hussain**, S. A. Hussain, M. P. Raju, M. N. Giri Prasad, "Neuro Fuzzy system for medical image processing", (Bangalore) **2010** IEEE International Conference on Emerging Trends in Robotics and Communication Technologies, Pg. 52-55, DOI.10.1109/INTERACT.2010.5706193.

34. **S. Javeed Hussain**, S. Asif Hussain, "Hand Written Character Recognition using Hybrid Intelligence", National Conference on Recent Trends in Electrical and Communication Technologies,METSCON-**2009**,Thrissur Dist, Kerala, India.

35. **S. Javeed Hussain**, S. A. K. Jilani, "A Real Time Licence Plate Recogniton Using Image Segmentation Technique" National Conference For Research Scholars and Post Graduates, RESPOGRAF-**2008**,Chandrayangutta, Hyderabad, India

7.5 Organized/Participated Technical Events

Organized

- Organized one day, '**IET Present around the world 2K18'** as organizer to select Oman's best talent conducted in GCET, Muscat, Oman

- I worked as a technical expert for "**Hands on Training program of PCB Design & Fabrication**" **2016** under IEEE student chapter in MITS, Madanapalle.

- Organized Two day, A National Level Technical Symposium "**INFOTHSAV 2K11 & 2K12**" as convener in consecutive years which was jointly organized with IEI.

- Presented paper on "**Robotics-Computer Vision to Digital Image Processing**" for the workshop organized by IEI **2010**

- Organized a two day, "**All India Workshop on Robotics Assembly and Programming (RAP-09)**"as Convener of the Workshop Jointly Organized with IEI

- Conducted **AIDS Awareness Programme and literacy** camp as NSS Officer of BCET under NSS activity **2008.**

- Conducted **Fund Raising programme** for 'Flood Affected People of Kurnool' as NSS Programme Officer of BCET under NSS activity, **2008**.

- Participated & Organized **Tree Plantation Campaign** organized in **2008** by NSS Wing of BCET, KADAPA.

Participation

- "**Innovative Undergraduate Labs for control, Mechatronics and Robotics**", Conducted by Quasar on Jan 5, 2015, as part of the pre-conference activity of ICTIEE **2015**, jointly by BMS college of Engineering and Indo-US collaboration for Engineering Education.

- "**Robotics Assembly and Programming**" in BCETFW, Department of ECE, Dec **2014**

- "**Personality Development**" organized by MAX Academy for Excellence, Chennai, Aug **2013**.

- "**Biomedical signal, Image processing and Analysis**" during 20-22 jan **2011** organized by Department of Medical electronics, Anna University, Chennai.

- "**MATLAB & Simulink**" for engineering Education on 6th September **2011** organized by MATHWORKS India.

- "**Medical image processing**" in IIT Kharagpur during 02-07 January **2011** organized by Department of Electronic and Communication Engineering.

- "**Biomedical signal and Image processing**" organized by Dept of ECE, BMS college of Engineering, Bangalore during 23-24 September **2010**.

- "**Faculty Development Program**" sponsored by Department of Science & Technology (DST), Govt of India, New Delhi during 5 Jan 2010 to 23 Jan **2010**.

- "**Embedded Systems**" in National Institute of Technology, Warangal during 7th - 19th july **2008** organized by Department of Electronics and communication engineering.

- "**Recent Trends in VLSI Design**" organized by Department of Electronics & Communication Engineering in Intell Engineering college on 9th august **2007**.

- Project work Carried Govt Organization in Rayalseema Thermal Power Project on **Programme Logic Controller** during December 2003- January **2004.**

8. References

1. Dr. Tahseen A. Rafik Dean, Global College of Engineering and Technology, Muscat, Oman, email: tarafik2020@gmail.com

2. Dr. S. A. K. Jilani, Professor & Dean-Research & Development, Madanapalle Institute of Technology and Sciences, India, email: adresearch@mits.ac.in, jilani_s_a_k@yahoo.com

3. Dr. Alison Todman, Professor & Senior International Partnerships Development Leader, UWE, UK, email: Alison.todman@uwe.ac.uk

4. Dr. Adil Saeed, Sr. Lecturer, Department of Electrical Engineering, Bouremoth University, Bournemoth, UK, email: asaeed4@bournmouth.ac.uk

5. Dr. Imran shafiq Ansari, Sr. Lecturer, Department of Electrical and Electronic Engineering, University of Glasgow, United Kingdom, email: imran.ansari@glasgow.ac.uk

Date: **(Javeed Hussain)**