Faculty Details proforma for DU Web-site

Title	Mr.	First Name	Amit	Last Name	Birwal	Photograph			
Designation			t Professor						
Address		Departn Universi	nent of Electronic S ity of Delhi, South lhi – 110 021						
Phone No		91-11-2	4110440						
Office									
Residence		91-11-4	0079952	May 15 Deals					
Mobile		9971693	3650						
Email		amit.bir	wal@south.du.ac.i						
Web- Page									
Educational Qualifications									
Degree		Institut	ion		Year				
M.Tech.(Microwave Electronics)		Departn	nent of Electronic S	elhi	2006				
B.Tech (Electronics & Telecommunication)			idyapeeth College astha University	obind Singh	2003				
Career Profile									
Organiza	tion	Designa	ation	Duration		Role			
Deptt. of Electronic Science, UDSC, INDIA		Assistan	t Professor	21.01.2014 -Till Date		Teaching & Research			
Ericsson India Pvt Ltd, Gurgaon, India		Verifica	tion Specialist	11.07.2007 - 20.01.20	14	Telecom R&D			

Administrative Assignments

- M.Tech Major Project Coordinator 2019-20
- Nodal officer, M.Tech Admissions, 2019.
- Coordinator, Department Educational tour and Alumni meet, March 2018
- Member Department Purchase and Library Committee 2017-18
- M.Tech Major Project Coordinator 2016-17
- Department website Administrator 2015-till date
- Member Department Purchase Committee 2015-16
- Nodal Officer, M.Tech Admission 2016
- Superintendent of Practical Examination, 2014-15
- Coordinator, Seminar Organization for M.Sc (Electronics), Feb-Mar 2015.

Areas of Interest / Specialization

Modern Communication Systems, Microwave Communication, Antenna and wave propagation, iOT

MATLAB, C/C++, Unix

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Subjects Taught

Theory:

M.Tech (Microwave Electronics)

- Communication Theory and Wave Propagation
- Microwave and MM wave Planar Transmission Lines
- Antenna Theory and Techniques (Shared)
- Electromagnetic Theory and Transmission Line (Shared)

Practical:

M.Tech (Microwave Electronics)

- Computational Laboratory
- Microwave Integrated Circuits
- MATLAB

M.Sc (Electronics)

• Computational Mathematical Laboratory using MATLAB

M.Tech VI Sem Major Project Coordinator 2019-20

Academic M. Sc. project supervision: 04 (Jan - June 2020)

Academic M. Sc. project supervision: 03 (Jan - June 2018)

M.Tech VI Sem Major Project Coordinator 2016-17

M. Sc. II Sem Summer Training Coordinator 2015-16

Academic M. Sc. project supervision: 06 (Jan - June 2017)

Research Guidance

List against each head (If applicable)

Supervision of awarded Doctoral Thesis - Nil
 Supervision of Doctoral Thesis, under progress - Nil
 Supervision of awarded M.Phil dissertations - Nil
 Supervision of M.Phil dissertations, under progress - Nil

Publications Profile

List against each head(If applicable) (as Illustrated with examples)

- 1. Books/Monographs (Authored/Edited)-Nil
- 2. Research papers published in Refereed/Peer Reviewed Journals-
 - 1. Birwal, A., Singh, S., Kanaujia, B. K., & Kumar, S. (2020). Low-profile 2.4/5.8 GHz MIMO/diversity antenna for WLAN applications. Journal of Electromagnetic Waves and Applications, 1-17.
 - 2. Birwal, A., Singh, S., Kanaujia, B. K., & Kumar, S. (2019). CPW-Fed Ultra-Wideband Dual-Sense Circularly Polarized Slot Antenna. Progress In Electromagnetics Research, 94, 219-231.
 - 3. Birwal, A., Singh, S., Kanaujia, B., & Kumar, S. (2019.). Broadband CPW-fed circularly polarized antenna for IoT-based navigation system. International Journal of Microwave and Wireless Technologies, 1-9. doi:10.1017/S1759078719000461.
 - 4. Birwal, A., Manker, N. K., & Patel, K. (2020). Compact printed log-periodic dipole antenna (LPDA) with T-shaped arm for wide band applications, Indian Journal of Pure & Applied Physics (IJPAP), 58(01), 16-23
 - Patel, K., Jayant, S., Kaithal, K., & Birwal, A. (2019). 7th order harmonic suppression and wide rejection band using CSRR backed BSF. Indian Journal of Pure & Applied Physics (IJPAP), 57(2), 85-89
 - 6. Rajput, A, Patel, K., Birwal, A. (2018). Compact microstrip low pass filter design using U-shaped folded high-impedance line. Microwave and Optical Technology Letters, vol 60, Issue 7, 1812-1815.

- Amit Birwal, "Evaluation and Comparison of Microstrip Effective Relative Permittivity Using MATLAB and Engauge Digitizer", International Journal of Scientific & Engineering Research, vol. 6, Issue 7, 625-629, 2015.
- 8. Akash, Amit Birwal, "IoT-based Temperature and Humidity Monitoring System for Agriculture". International Journal of Innovative Research in Science, Engineering and Technology. Vol. 6, Issue 7, 12756 12761, 2017.
- 9. Vikrant Kaim, Amit Birwal, Kamlesh Patel et al "Flower Shaped Slotted Microstrip Patch Antenna for Circular Polarization " IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), vol 11, Issue 1, 85-90, 2016
- 3. Research papers published in Refereed/Peer Reviewed Conferences
 - 1. Birwal. A, Singh. S, and Kanajia. B.K (2019), "Smart Compact Folded Microstrip Antenna for GSM, LTE and WLAN Applications" in 2nd International Conference on Smart IoT Systems: Innovations in Computing (SSIC-2019), Jaipur, India.
 - 2. Birwal. A, Singh. S, and Kanajia. B.K (2018), "CPW-fed broadband slot antenna for GNSS and Wi-Fi applications" in IEEE Indian conference on Antenna and Propagation (InCAP), Hyderabad, India.
 - 3. Verma, A., Birwal, A., & Patel, K. (2018, December). Guitar-Shaped Patch Antenna With CPW Feed Line For WLAN and WiMAX Band Applications. In 2018 IEEE Indian Conference on Antennas and Propogation (InCAP) (pp. 1-4). IEEE.
 - 4. Birwal, Amit. (2018). Challenges for BRICS Nations in Geospatial World, National Seminar, Century of Asians: Role and Impact of Asian Countries. UPSA, UGC-HRDC, Kumaun University, Nainital, 31-May-2018 to 01-June-2018.
- 4. Other publications (Edited works, Book reviews, Festschrift volumes, etc.)-

Book Chapter

 Amit Birwal, Sanjeev Singh, Binod Kumar Kanaujia, "Smart Compact-Folded Microstrip Antenna for GSM, LTE, and WLAN Applications", a book chapter in the book entitled "Smart Systems and IoT: Innovations in Computing", Springer, Chapter 45, July 2019. ISBN 978-981-13-8405-9, DOI-10.1007/978-981-13-8406-6

National/International conferences/Workshop attended

- Faculty Development programme in "ICT Enabled Higher Education in India: Challenges and Opportunities" conducted by Guru Angad Dev Teaching Learning center, SGBT Khalsa College, DU and MHRD. 13, April 2020
- 2. Faculty Development programme in "5G Communication" conducted by IIIT, Jabalpur. 13-17, March 2020.
- Faculty Development programme in "Antenna Trends" conducted by Electronics and Information Technology (MeitY), Govt. of India and IIT Guwahati. 1-5, July 2019
- 4. Faculty Development programme in "Introduction to Research" conducted by NPTEL-AICTE, Funded by ministry of HRD. Aug 2018
- 5. Faculty Development programme in "Health Research Fundamental" conducted by NPTEL-AICTE, Funded by ministry of HRD. Sep 2018
- 6. National Science Day (NSD), Uninersity of Delhi South Campus, Feb 27-28, 2017.
- 7. RF/Microwave Design and Simulation Workshop, National Instruments, USA, Aug 12, 2016.
- 8. International Mini Workshop on VLSI Systems, Jwaharlal Nehru University, New Delhi, Jan12th -13th, 2015
- National Seminar on Basic Electromagnetic Theory, RF/Microwave Technologies and Applications, Maharaja Agrasen College, DU, New Delhi, March 10th-11th, 2015
- 10. Training Workshop on MATLAB Fundamentals, Organized by Mathworks, New Delhi, Nov 17th-19th, 2014

Awards and Distinctions

- i. Qualified UGC NET 2010, JRF
- ii. Refresher Course in Electronics, Electrical & Communication Engineering from UGC-Human Resource Development Centre, University of Hyderabad. February 2- 22, 2017.
- Orientation Course from UGC-Human Resource Development Centre, Kumaun University, Nainital (Uttarakhand). February 23.05.2018- 20.06.2018.

Research Projects (Major Grants/Research Collaboration)

• DU R&D Grant 2015-16- Design, Simulation and Fabrication of microstrip patch antenna at ISM frequency band.

Association With Professional Bodies

- 1. Editing
- 2. Reviewing
 - Reviewer, Wireless Personal Communications, Springer
 - Reviewer, Journal of Progress In Electromagnetics Research (JPIER)
- 3. Advisory
- 4. Committees and Boards
 - Member, TIC Club, Electropreneur Park, University of Delhi South Campus
- 5. Memberships:
 - Member- Microwave Journal, USA
 - Member, IEEE
- 6. Office Bearer

Other Activities

Have been actively engaged in various activities of the Department

- 1. Online teaching learning process management
- 2. Website management (http://electronics.du.ac.in)
- 3. Annual Visitor's Programme & Alumni meet
- 4. Admission process for M.Sc, M.Tech.
- 5. Procurement and Establishment of new departmental lab facilities- from the grant received time to time.

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Signature of Faculty Member

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