


**INDIVIDUAL FACULTY PROFILE- TEMPLATE TO BE UPLOADED IN COLLEGE WEBSITE**

	<p> <b>Name</b> : Dr. Karthikeya G. S  <b>Designation</b> : Assistant Professor  <b>Qualification</b> : PhD  <b>Email-id</b> : Karthikeya.ece@bmsce.ac.in  <b>Experience</b> : 10 years  <b>Teaching experience</b> : 5 years  <b>Date of Joining this Institution (BMSCE):</b> 2. Jan. 2023         </p> <p> <b>Research Interests</b> : Millimeter wave antenna designs for 5G devices, Application of additive manufacturing in antenna design, Phased array antennas for base stations, Electrically thin antenna designs for portable devices, EMI shielding materials, antenna measurement systems         </p>
<p><b>About Your self</b></p>	<p> <b>Paragraph –</b>            Dr. Karthikeya G S is working as an Assistant Professor in the electronics and communication engineering department. He worked as a Project Scientist at Foundation for Innovation and Technology Transfer (FITT). He has authored or co-authored more than 70 articles in peer-reviewed journals and international conference proceedings. He has also filed 6 Indian patents and 2 US patents. He has co-authored three state of the art books and a book Chapter. He also holds a copyright on 5G antenna module design. One of his articles was featured as a cover feature in Microwave Journal. He is a senior member of IEEE and a life member of Antenna Test and Measurement society. He serves as the reviewer of several IEEE and John Wiley journals.         </p>
	<p> <b>Education:</b>  <b>Doctoral Research:</b> Millimeter wave antennas for 5G mobile terminals and base stations, IIT Delhi (Jan 2017-Dec 2019)  <b>Masters</b> : Microwave Engineering, College of Engineering Trivandrum (Aug 2010 to Aug 2012)  <b>Bachelors</b> : Electronics and Communication, BMS College of Engineering (June 2006 to July 2010)         </p>
	<p> <b>Personal web site/page if any then mention the Webpage link: -</b>  <a href="https://www.linkedin.com/in/karthikeyags/">https://www.linkedin.com/in/karthikeyags/</a> </p>
	<p> <b>Selected Publications :</b>   <b>Books</b> </p> <ol style="list-style-type: none"> <li>1. Koul, S.K., &amp; Karthikeya, G.S. (2021). Millimetre Wave Antennas for 5G Mobile Terminals and Base Stations (1st ed.). CRC Press. <a href="https://doi.org/10.1201/9781003010265">https://doi.org/10.1201/9781003010265</a></li> <li>2. Shiban K Koul, Karthikeya G. S, Ajay K. Poddar and Ulrich L Rohde, Compact Antennas for Future 5G Smartphones. Horizon House Publications <a href="https://www.microwavejournal.com/articles/35211-compact-antennas-for-future-5g-smartphones">https://www.microwavejournal.com/articles/35211-compact-antennas-for-future-5g-smartphones</a></li> <li>3. Koul, Shiban Kishen. "Antenna Architectures for Future Wireless Devices <a href="https://link.springer.com/book/10.1007/978-981-16-">https://link.springer.com/book/10.1007/978-981-16-</a></li> </ol>

**Journals**

1. **G. S. Karthikeya**, M. P. Abegaonkar and S. K. Koul, "CPW Fed Wideband Corner Bent Antenna for 5G Mobile Terminals," in *IEEE Access*, vol. 7, pp. 10967-10975, 2019.
2. **K. Gulur Sadananda**, M. P. Abegaonkar and S. K. Koul, "Gain Equalized Shared-Aperture Antenna Using Dual-Polarized ZIM for mmWave 5G Base Stations," in *IEEE Antennas and Wireless Propagation Letters*, vol. 18, no. 6, pp. 1100-1104, June 2019.
3. **Karthikeya GS**, Abegaonkar M, Koul SK. Path loss compensated pattern diversity antennas with spatially modulated ZIM loading for 5G base stations. *IET Microwaves, Antennas & Propagation*. 2019 Aug 1.
4. **G. S. Karthikeya**, M. P. Abegaonkar, and S. K. Koul, "CPW Fed Conformal Folded Dipole with Pattern Diversity for 5G Mobile Terminals," *Progress In Electromagnetics Research C*, Vol. 87, 199-212, 2018
5. **G. S. Karthikeya**, M. P. Abegaonkar, and S. K. Koul, "A Wideband Conformal Antenna with High Pattern Integrity for mmWave 5G Smartphones," *Progress In Electromagnetics Research Letters*, Vol. 84, 1-6, 2019.
6. **Karthikeya, G. S.**, Mahesh P. Abegaonkar, and Shiban K. Koul. "Pattern diversity of path loss compensated antennas for 5G base stations." *International Journal of RF and Microwave Computer-Aided Engineering*: e21800.
7. M. Idrees Magray, **G. S. Karthikeya**, K. Muzaffar, and S. K. Koul, "Corner Bent Integrated Design of 4G LTE and mmWave 5G Antennas for Mobile Terminals," *Progress In Electromagnetics Research M*, Vol. 84, 167-175, 2019
8. **G. S. Karthikeya**, M. P. Abegaonkar, and S. K. Koul, "Polycarbonate Based Overlapped Architecture for Landscape and Portrait Modes of mmWave 5G Smartphone," *Progress In Electromagnetics Research M*, Vol. 86, 135-144, 2019
9. S. P. Swapna, **G. S. Karthikeya**, S. K. Koul, and A. Basu, "Gain Equalized Three Antenna Pattern Diversity Module for WLAN Access Points," *Progress In Electromagnetics Research C*, Vol. 96, 215-227, 2019
10. S. P. Swapna, **G. S. Karthikeya**, S. K. Koul, and A. Basu, "Three-Port Pattern Diversity Antenna Module for 5.2 GHz Ceiling-Mounted WLAN Access Points," *Progress In Electromagnetics Research C*, Vol. 98, 57-67, 2020

<https://scholar.google.com/citations?user=cAFbMoYAAAAJ&hl=en>

**Courses Handled/List :**  
**Microwave and Antenna Engineering (UG)**  
**Electromagnetic Field Theory (UG)**  
**Antenna Theory and Design (PG)**  
**Antenna Design Lab (PG)**

**Additional Responsibilities :**

	<b>Other Information: Technical Skills</b>
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1. ANSYS HFSS, HFSS-IE
2. Antenna characterization from 1 GHz to 50 GHz
3. Hands-on experience with VNA, Spectrum analyzer, millimeter wave radiation pattern measurements, fabrication of passive microwave components
4. Agilent ADS
5. MATLAB, Simulink