

CERTIFICATE COURSE ON **ANTENNA DESIGN & SIMULATION USING ANSYS HFSS**

A way to Modern Wireless Communication



1 Registration Open on September 20, 2021
Registration link: <https://forms.gle/5cwYJc4yJYAMYyE26>

2 Last Date for Registration: October 20, 2021

About Indus University

Indus University has been established with the objective of making a noteworthy contribution to the social, economic and cultural life of our country. Having faith in the power of education, the builders of this university intend to impart knowledge to youngsters of society. The three pillars on which this university firmly stands are – educational wisdom, professional brilliance, and research & innovation, all of which are aimed at nurturing a spirit of entrepreneurship and social responsibility.

Indus University has 8 constituents institutes offering UG, PG and Doctoral degree programmes in diverse disciplines courses of Engineering, Management, Science and Humanities, Information communication technology, Design and Architecture, Aviation Technology and Indic Studies.

About Indus Institute of Technology and Engineering

Indus Institute of Technology and Engineering is one of the flagship institutes of Indus University. It aims at providing innovative education on par with the industry needs and marshals the brightest minds as a global pool of professionals. At IITE, we offer UG, PG and PhD programmes in various streams of Engineering.

Institute of Technology & Engineering provides work and play environment to boost students persona and intellect quotient all through the academic period. While they are exposed to fieldwork, much weight is given to research and development in the fields of engineering. Students are encouraged and supported in a variety of ways to plan and execute startups. High-class laboratories and modern tools are available to ease the journey of booming startups and innovation. Faculty members at ITE play a significant role in building entrepreneurs par excellence.



Computer
Engineering

Civil
Engineering

Mechanical
Engineering

Electronics and Communication
Engineering

Metallurgical
Engineering

Automobile
Engineering

Electrical
Engineering

About Electronics and Communication Department

The department of Electronics and Communication engineering started in 2008 at Indus Institute of Technology and Engineering. In addition to imparting high quality teaching, the department offers excellent technical support for research and opportunities to work in industrial projects.

The Department offers following courses

- B.Tech (Electronics & Communication)
 - * 4 Years Full Time Course with Add-Ons in Internet Of Things, Data Science And Cyber Security
- M.Tech (Digital Communication)
- M.Tech (VLSI & Embedded Systems)
- Ph.D

About the Course

With an ever advancing society, technology plays an important role in everyday life. Digital India is a movement lofted by the Government of India to assure that the different Government benefits are made accessible to the people of India belonging to different states through electronic means of communications. These services are disseminated to the people with the help of ICT (Information and Communication Technologies) such as mobile phones, personal computers, laptops, tablets, televisions, radios and internet. This demands to improve the online framework and by enhancing the internet connectivity so that it is easily disseminated to the people all over the country without any barriers. The high speed Internet and mobile cellular which rely heavily on wireless interfaces to provide services to their customers due to a lower cost of implementation and maintenance compared to wired alternative. Antennas are important part of this experience in that they allow users to receive and transmit data to communicate with the infrastructure. In this certificate course, the knowledge related to Antenna Engineering, Theory, Analysis and Design Training will be disseminated.

Following are the key objectives of the course.

- To understand Electromagnetic, RF and Microwave fundamental concepts
- To design and model Microwave components (Rectangular waveguide, Power dividers) for given specifications using ANSYS HFSS software
- To describe antenna radiation mechanism and antenna radiation parameters.
- To design and understand the operation of a wide range of antenna types (Dipole, Microstrip patch and horn antennas)
- To develop skill of designing & optimising an antenna using Ansys HFSS software for given specifications.

Eligibility for Registration

To become eligible for registering to certificate course on Antenna Design & Simulation, you must be from the background of Science, Technology, Engineering and Mathematics (STEM).

Registration Process:

Course Registration: September 20, 2021 to October 20, 2021

The course is likely to start from October 21, 2021.

To register for course please click on the link: <https://forms.gle/5cwYJc4yJYAMYyE26>

For Inquiries contact: ec.certificatecourse@indusuni.ac.in

Course Highlights

- Reinforcement of background of Electromagnetic, RF/Microwave and Antenna
- Design, simulation and development idea of RF/microwave components
- Design, simulation and development idea of wide range of antennas
- Advanced printed antenna design and simulation using simulation software
- Hands on practice on Ansys HFSS simulation software

Benefits to the Participants

- Hands on based Learning to design Industrial Standard Antenna
- Trained on Commercial Simulation Software (Ansys HFSS)
- Soft copy of Course Material, PPT's
- Projects based Learning
- Course Certificate

Course Fees:

Certification Course

Indus University Students : Rs. 1000/-

Other University Students: Rs. 1500/-



Training sessions on Antenna Design and Simulation at Indus University

Patron:

Prof. (Dr.) V. K. Srivastava

Honourable Executive President (VC),
Indus University

Chairperson

Dr. Sujoy Chaudhary

Director-IITE, Indus University

Convener

Dr. Vrushank Shah

Head (EC), IITE, Indus University

Course Co-ordinators and Correspondence

Asst. Prof. Zalak Patel (M) 787845249

Asst. Prof. Divyangana Gandhi (M) 8200598659

email: ec.certificatecourse@indusuni.ac.in

Indus University,
Rancharda, Via: Shilaj,
Ahmedabad - 382115 Gujarat, INDIA.

Website: www.indusuni.ac.in