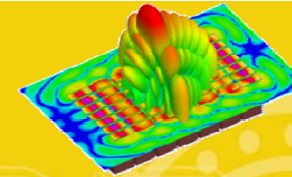


TEQIP-III Sponsored  
One week online workshop  
on



## “Design and Analysis of Microwave Systems using ANSYS HFSS”

(2<sup>nd</sup> -6<sup>th</sup> November, 2020)

Jointly Organized by:

Department of ECE, BIT Sindri, Dhanbad & ARK Infosolutions Pvt. Ltd.

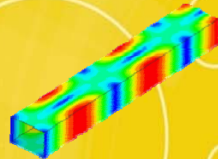
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Last Date: 30<sup>th</sup> October, 2020

Prof. D.K. Singh  
Director, BIT Sindri  
Patron



### What is Ansys HFSS?

Ansys HFSS is a 3D electromagnetic (EM) simulation software for designing and simulating high-frequency electronic products such as antennas, antenna arrays, RF or, microwave components, high-speed interconnects, filters, connectors, IC packages and printed circuit boards. Engineers worldwide use Ansys HFSS to design high-frequency, high-speed electronics found in communications systems, radar systems, advanced driver assistance systems (ADAS), satellites, internet-of-things (IoT) products and other high-speed RF and digital devices.

### Who should attend?

- Faculty Members
- Research Scholars/Engineering Students
- Industry Professionals

### What to expect?

Based upon hands-on sessions, the participants will get an idea about the different computational solvers present in HFSS and gain a deep insight into how using the simulation with the appropriate solver helps in reducing the design cycle time. Additionally they will be introduced to the recent trends in communication (5G) and how ANSYS helps in simplifying the design challenges.



Dr. A.P. Sinha  
ECE, BIT Sindri  
Coordinator-I



Dr. A. Kumar  
ECE, BIT Sindri  
Coordinator-II



Dr. S.K. Verma  
ECE, BIT Sindri  
Coordinator-III



Mr. Aakash  
ARK Infosolutions  
Coordinator-IV

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**Note:** Registration is **Free** but seat is limited to 30 participants only hence, participants will be entertained on first cum first serve basis.



STRUCTURES



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OPTICS



MATERIALS



SYSTEMS



3D DESIGN



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### Tentative Program Schedule

DAY	Morning Session (11.00 AM-01.00 PM)		Evening Session (3:00PM-5:00PM)
	(11.00 AM-11.15 AM)	(11.15 AM-01.00 PM)	
Day 1 02/11/2020 (Monday)	<i>Inaugural Ceremony</i>	Analysis of Parametrically Designed Patch Antenna <b>Mr. Aakash, ARK Infosolutions</b>	HANDS-ON <b>Mr. Aakash, ARK Infosolutions</b>
Day-2 03/11/2020 (Tuesday)	Helical Antenna operating in Axial Mode <b>Mr. Aakash, ARK Infosolutions</b>		HANDS-ON <b>Dr. S. K. Verma, BIT Sindri</b>
Day-3 04/11/2020 (Wednesday)	Modal Analysis of Rectangular Waveguide <b>Mr. Aakash, ARK Infosolutions</b>		HANDS-ON <b>Mr. Aakash, ARK Infosolutions</b>
Day-4 05/11/2020 (Thursday)	Antenna Array Design <b>Dr. Arvind Kumar, BIT Sindri</b>		HANDS-ON <b>Dr. A. P. Sinha, BIT Sindri</b>
Day-5 06/11/2020 (Friday)	Specific Absorption Rate (SAR) Analysis for Mobile User Equipment <b>Mr. Aakash, ARK Infosolutions</b>		HANDS-ON <b>Mr. Aakash, ARK Infosolutions</b>

**Note:** License software will be provided to each participant for the Hand-on session.



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