B.Tech. in
Department of Electronics and Communication Engineering

FROM

GYAN GANGA INSTITUTE OF TECHNOLOGY AND SCIENCES, JABALPUR

Committed for Excellence

Our Strengths

- Department of EC is accredited by NBA, ranked by ARIIA.

- Outcome based education.

- Fully equipped laboratories.

- Highly qualified faculty.

- Skill based learning through trainings, internships and projects.

- MoUs and ties-ups with various companies and academies.

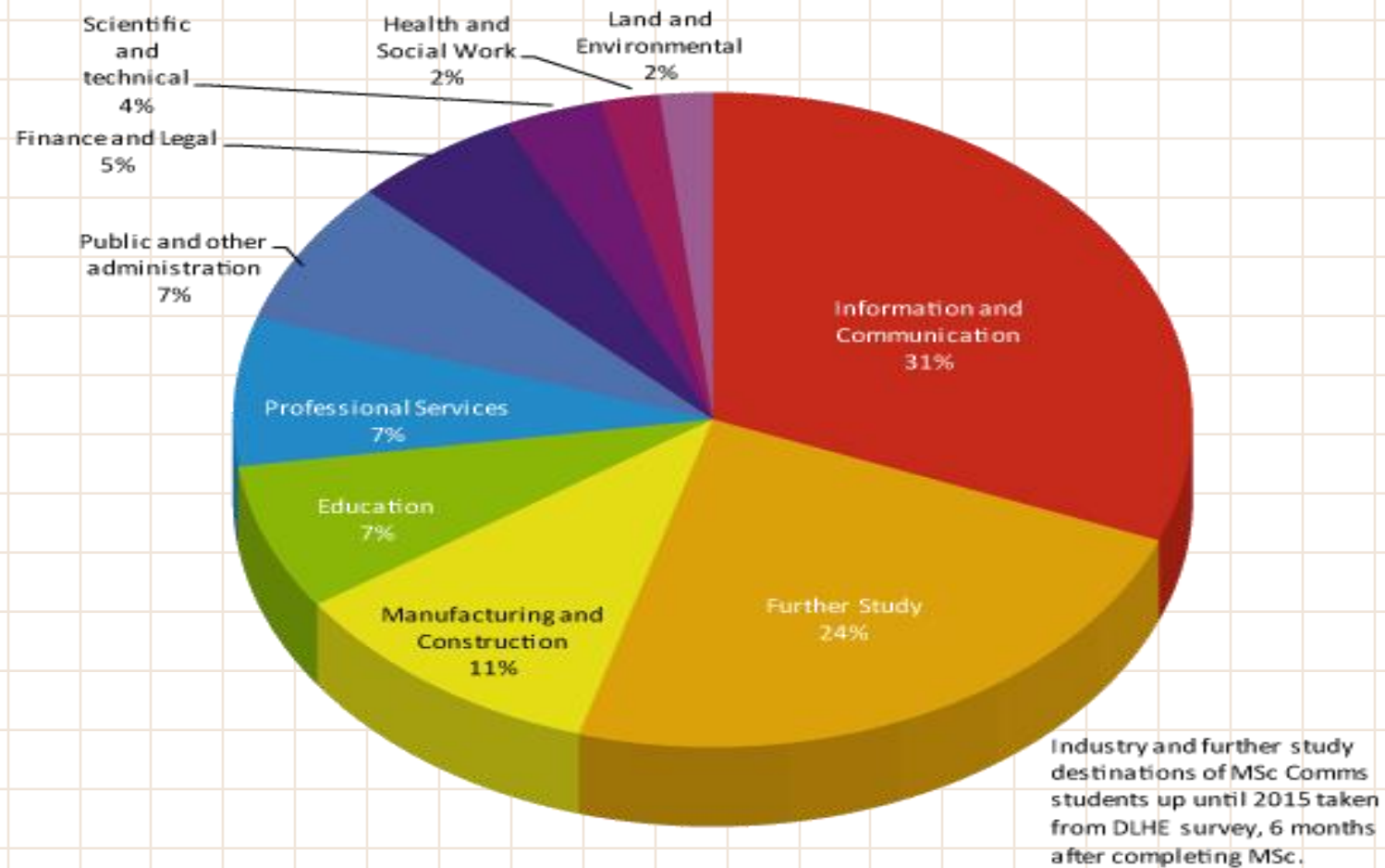- Focus on overall personality development of students.

About the Branch

- With technological evolution, Electronics and Communication has become an important discipline required by every other industry.

- Penetration of electronics has now revolutionized other areas like instrumentation, health care, automation, signal processing, remote sensing etc.

- The course also covers the study of programming skills and application of computers in signal processing and communication, hardware and interfacing of computer systems.

- Space defence and many different research organizations employ EC engineers in design and development of complex devices and systems for signal processing and telecommunication.

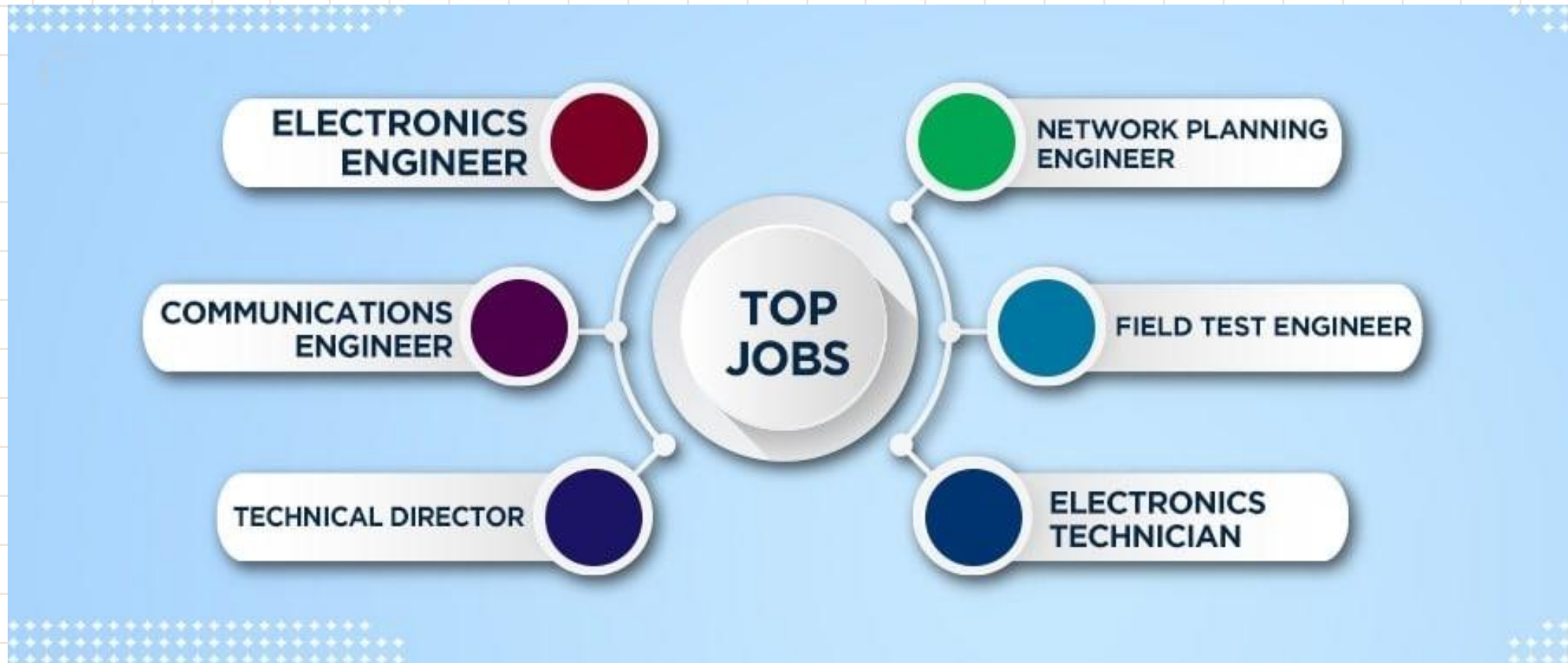# Variety of disciplines to opt after B.Tech. ECE

- Signal processing

- Telecommunications engineering

- Control engineering

- Instrumentation engineering

- Computer engineering

- VLSI Design Engineering

- Artificial Intelligence

- Robotics

- Microwave Engineering

- RFID Engineering

- Aeronautical Engineering

- RADAR Engineering

- Optical Electronics
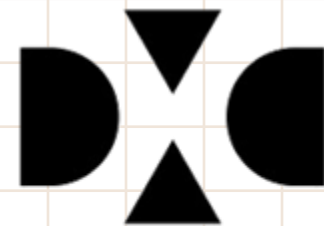
- Semiconductor Fabrication

Job Sectors for ECE

Scientific and technical
4%

Finance and Legal
5%

Public and other administration
7%

Professional Services
7%

Education
7%

Manufacturing and Construction
11%

Health and Social Work
2%

Land and Environmental
2%

Information and Communication
31%

Further Study
24%

Industry and further study destinations of MSc Comms students up until 2015 taken from DLHE survey, 6 months after completing MSc.

Top Jobs for ECE

Highest Package

Job	Average	Min		Max
Assistant Professor, Postsecondary / Higher Education 10 profiles	Rs 407,895	Rs 242K		Rs 775K
Software Engineer 9 profiles	Rs 900,000	Rs 353K		Rs 2.9M
Senior Software Engineer 6 profiles	Rs 600,217	Rs 565K		Rs 712K
Project Manager, Information Technology (IT) 5 profiles	Rs 1,100,000	Rs 650K		Rs 1.4M
Embedded Software Engineer 4 profiles	Rs 1,161,000	Rs 0		Rs 1.2M
Systems Engineer, IT 3 profiles	Rs 351,402	Rs 0		Rs 351K
Java Developer 3 profiles	Rs 134,000	Rs 0		Rs 134K

Placement world of ECE in GGITS

In house trainings by the department

Training	Target Students
Problem solving skills – Raptor flowchart interpreter	1st Semester
Fundamentals of C programming	2nd Semester
Hands on Electronics Circuit Design	3rd Semester
Programming in C++ / Java / Python programming	4th Semester
Hands on MATLAB software	5th Semester
Embedded Systems & IoT	6th Semester
Project Guidance	7th Semester
Campus Training (Aptitude, GD, Technical, Mock Interview)	8th Semester

Outhouse trainings and Tie ups

- Cisco Netacad
- Quantum Learning
- Oracle Academy
- AWS Educate
- e-Yantra by IIT Bombay
- Microsoft Imagine Academy
- Swayam NPTEL Local Chapter

Teaching-Learning (Online)

- **MOODLE** one of the best LMS digital platform is being used by us since 5 years. It's also been used by different IITs, NITs, etc.

- **ExamView** is used by the ECE Department exclusively to conduct mock tests for campus preparations. It's used in many foreign universities.

- **Virtual Labs** nodal center is formed in the institute to improve the quality of labs.

- **YouTube lectures** on various subjects ranging from technical to job-oriented, are freely available by our faculties, and are ad-free.

- **Office 365** is procured by the institute for better online learning and collaboration.

Software learnt in ECE GGITS

- PSPICE
- Keil
- Proteus
- MATLAB
- Quartus
- Xilinx
- CADFEKO
- LabView

- TINAPro
- Multisim
- Tanner EDA
- LTSPICE
- Scilab
- Codeblocks
- Raptor
- PCB Wizard

Hardware procured by ECE GGITS

- IoT Board by Texas Instrument

- Arduino Board

- Node MCU ESP8266

- Raspberry Pie

- ALP kits

- CPLDs and FPGAs boards

- e-yantra robots

- Analog and Digital Electronics Trainer Boards

- Communication Trainer Kits

- Antennas trainer kits

- Microwave Benches

- PCB Fabrication Setups

- Instrumentation Trainer Board

OUR GUIDING FORCE

Dr. Ravindra V Kshirsagar
Designation: Principal
Ph. D.: Reconfigurable Computing & Fault Tolerance
Experience : 33 Years

Faculties of ECE, GGITS

Dr. Neeta Nathani
Designation: Associate Professor HOD (EC)
Ph. D.: VLSI Technology
Experience : 17 Years

Prof. S. U. Khaparkar
Designation: Associate Professor (Ph. D. Pursuing)
Ph. D: Pursuing in Wireless Sensor Network
Experience: 21 Years

Faculties of ECE, GGITS

Dr. Vandana Roy
Designation: Associate Professor
Ph.D.: Electronics Communication
Experience: 15 Years

Prof. Rajender Singh Yadav
Designation: Assistant Professor (Ph. D. Pursuing)
M. Tech: Automation and Robotics
Experience: 16 Years

Faculties of ECE, GGITS

Prof. Zohaib Hasan
Designation: Assistant Professor
M. Tech: Networking and Communication
Experience: 10 Years

Prof. Sunil Shah
Designation: Assistant Professor (Ph. D. Pursuing)
M. Tech: Microelectronics
Experience: 9 Years

Faculties of ECE, GGITS

Prof. Amit Gupta
Designation: Assistant Professor
M. Tech: Digital Communication
Experience: 9 Years

Prof. Abhishek Singh
Designation: Assistant Professor
M. Tech.: Embedded System and VLSI Design
Experience : 10 Years

Faculties of ECE, GGITS

Prof. Nirdesh Jain
Designation: Assistant Professor
M. E.: Electronics & Communication
Experience : 10 Years

Prof. Laxmi Kosta
Designation: Assistant Professor (Ph. D. Pursuing)
M. Tech.: Embedded System and VLSI Design
Experience : 3.5 Years

Faculties of ECE, GGITS

Prof. Priyanka Tripathi
Designation: Assistant Professor
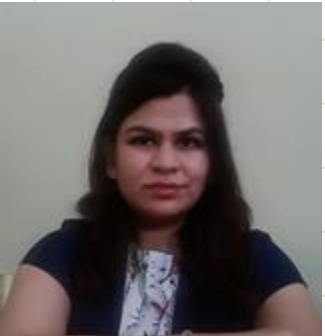**M. E.: Embedded System and VLSI Design**
Experience : 4 Years

Prof. Silky Pareyani
Designation: Assistant Professor
M.E.: Communication Systems Experience:
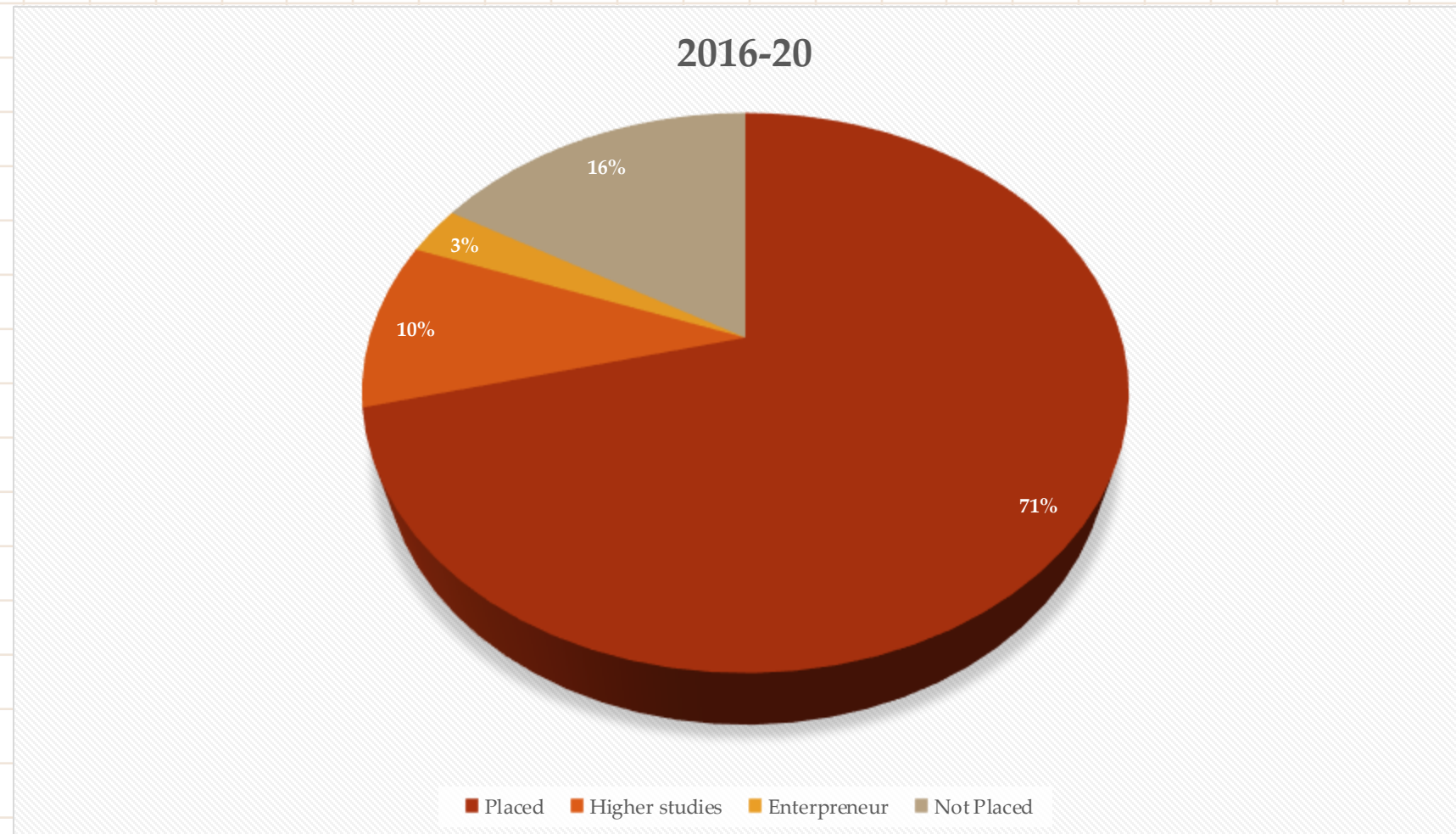**7.5 Years**

Faculties of ECE, GGITS

Prof. Sanjeev Patel
Designation: Asst. Professor
M.Tech.: VLSI Design and Embedded Systems
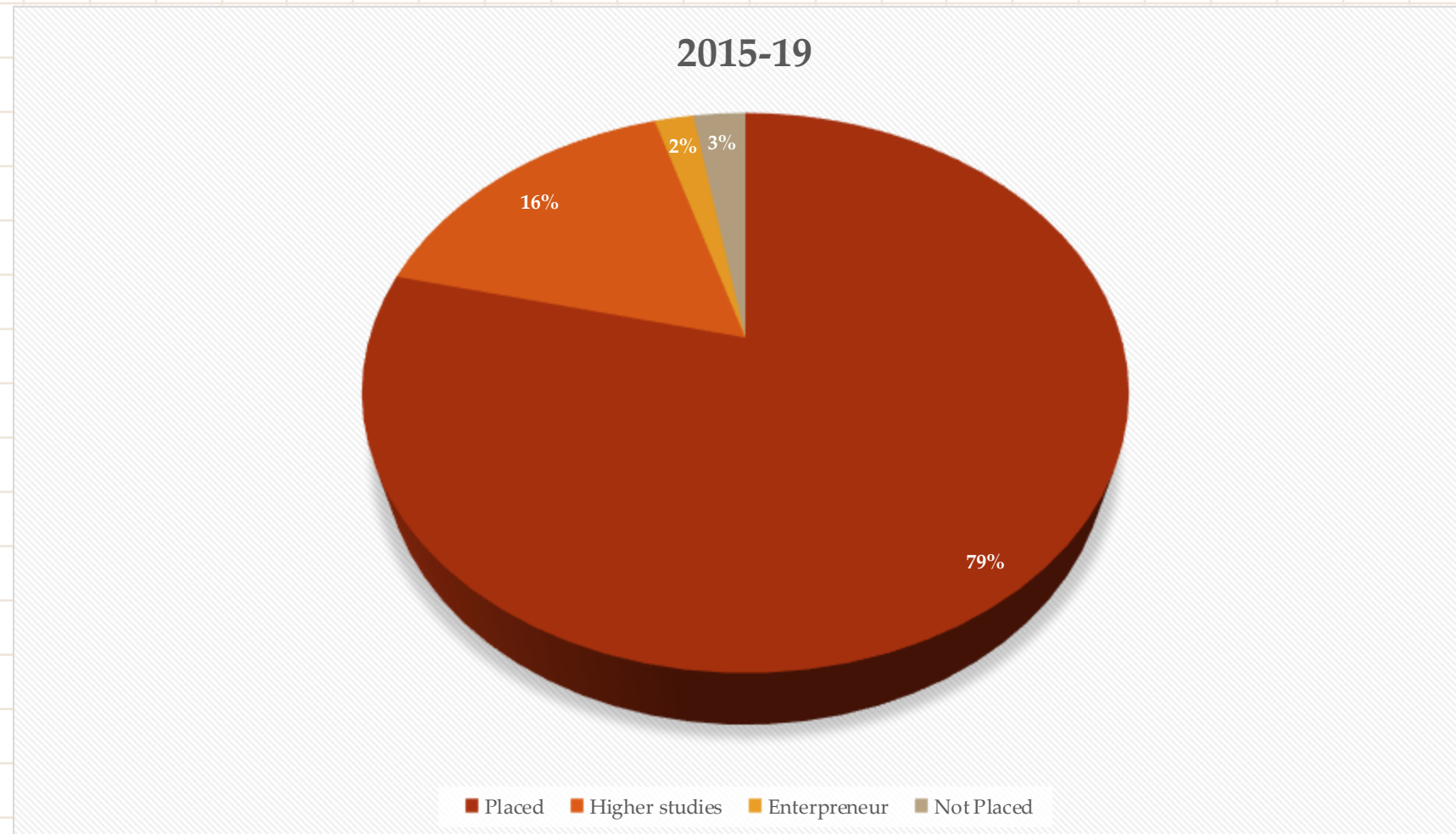**Experience: 6 Years**

Prof. Surya Bazal
Designation: Asst. Professor
M.Tech.: Digital Communication
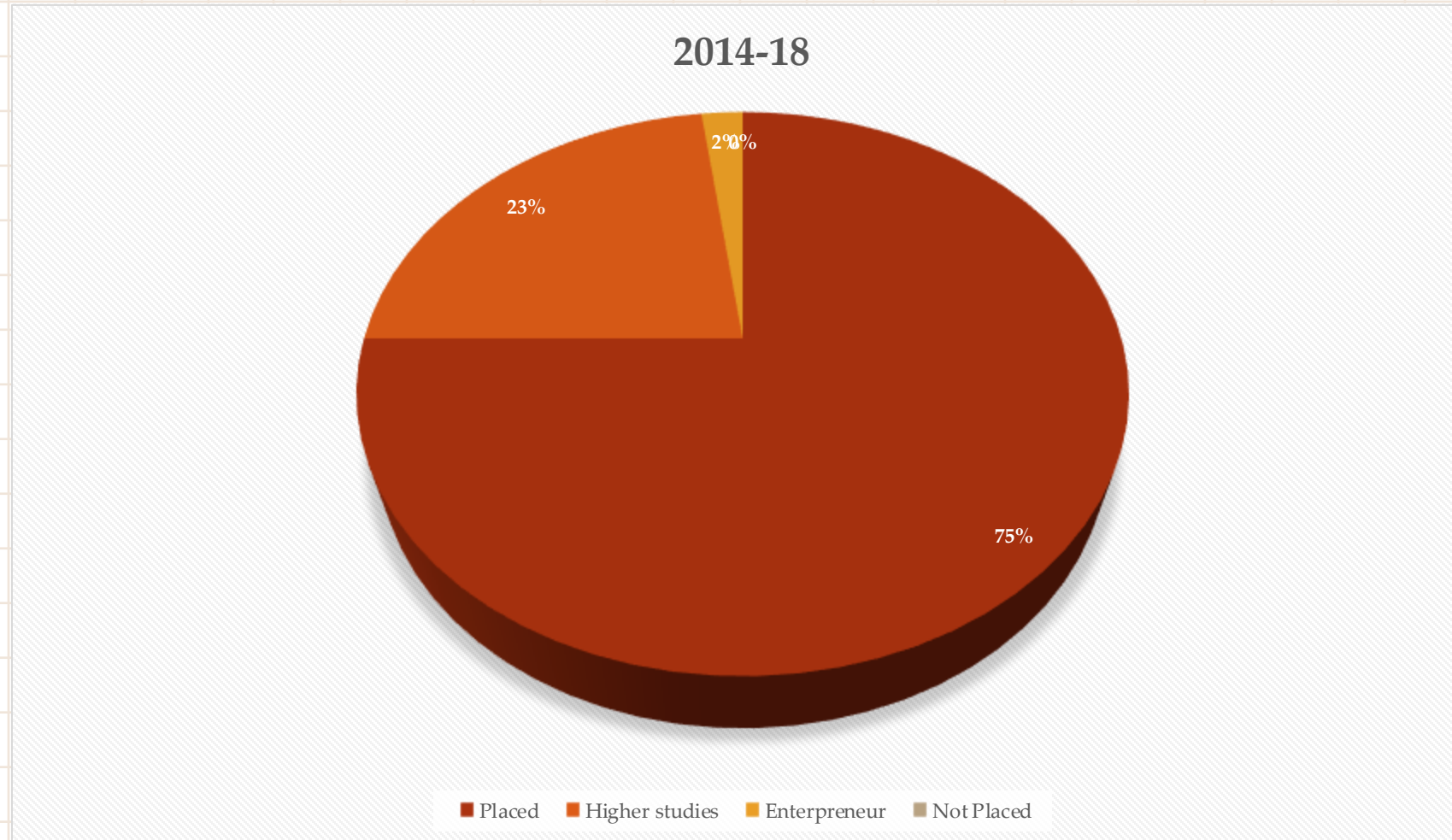**Experience : 4 Years**

Placement Record 2016-20

2016-20

- 16%
- 3%
- 10%
- 71%

■ Placed ■ Higher studies ■ Enterpreneur ■ Not Placed

Placement Record 2015-19

2015-19

16%

2% 3%

79%

■ Placed ■ Higher studies ■ Enterpreneur ■ Not Placed

Placement Record 2014-18

2014-18

- 2%
- 23%
- 75%

■ Placed ■ Higher studies ■ Enterpreneur ■ Not Placed

Few of many students of ECE who made us proud

Ashish Minocha (Alumni ECE 2009)

Registered a Patent in Yokohama, Japan for the Project entitled "Algorithm for 77 GHz Radar Free Space Detection for Automated Driving System" and "Driver Partial Blindness using a Camera System"

Nitesh Jangir (Alumni ECE 2010)

News / Education Today / News / Indian engineer who made breathing device to preven...
Award

Indian engineer who made breathing device to prevent deaths of newborn babies wins Innovation Award in UK

- CEO at COEO Labs
- Obtained 8 US patents and more are filed.
- He was invited by **President of India** at **Rashtrapati Bhawan** for his great achievements

Shiv Gupta (Alumni ECE 2012)

Worked as Project Manager in Aarogya Setu App Project under Govt. of India.

Vibhor Mishra (Alumni ECE 2012)

Received 1.15 crore package in Cisco. Currently working as Software Developer in Silicon Valley, California, he got one of the biggest job offer, bringing proud to the Institute and the Department.

Akriti Sakhuja (Alumni ECE 2013)

Automotive Cybersecurity Engineer
at Nexteer Automotive, Michigan

Amit Pare (Alumni ECE 2015)

Algorithm Engineer II at IDEXX, Boston,
Massachusetts

Arpita Chouhan (Alumni ECE 2016)

Invited to Dressage Competition (Horse riding) as a Section Commander in Prime Minister's Rally Received Bronze medal 26-Jan-16.

Debtanu Mukherjee (Alumni ECE 2019)

Qualified GATE exam in first attempt, scored 1200 rank, only by self preparation. Currently, studying Integrated Circuit and Systems at IIT Bombay.

We welcome you to join this prestigious journey of ECE, GGITS

Thank you