



UNIVERSITY of
POSSIBILITIES
ENROL • ENGAGE • EVOLVE

GANPAT UNIVERSITY & eInfochips CENTER OF EXCELLANCE

U. V. Patel College of Engineering
M. Tech (EC - VLSI & ES) Programme



About Ganpat University



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- ❖ Ganpat University as a well reputed State Private University established in 2005 through the State Legislative act no 19 of 2005, Government of Gujarat.
- ❖ Recognized by the UGC under the section 2(f) of the UGC Act, 1956.
- ❖ Campus spread over more than 300 acres of land with world class infrastructure and more than 10,000 students on campus.
- ❖ The University offers Diplomas, Under Graduate, Post – Graduate and Research Programs under the Faculties of Engineering and Technology, Pharmacy, Management, Computer Applications, Sciences, Education, Humanities and Social Science and Human Potential Development.
- ❖ Ganpat University and the township of Ganpat Vidyanagar, a high-tech education campus is a joint initiatives; purely for philanthropy; of a large number of industrialists and technocrats, noble farmers and affluent businessmen; having a mission of “Social Upliftment through Education”.



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SKILL
DEVELOPMENT



About Institute



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- ❖ U. V. Patel College of Engineering was Established in 1997
- ❖ Premier self-financed engineering institute
- ❖ 09 undergraduate programmes
- ❖ Postgraduate programmes
- ❖ Ph.D. programme
- ❖ Approved by All India Council for Technical Education [AICTE], New Delhi



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Title of Programme



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- ❖ M. Tech. Electronics & Communication Engineering
- ❖ M. Tech. EC with specialization in VLSI & Embedded Systems



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About Center of Excellence



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- ❖ Our Center of excellence is a team, or a shared facility which will provide leadership, best practices, support to trainers and trainees for training in a focused area which could be particular technology, a concept, skill or area of technical studies.
- ❖ Own research mission and objectives, guided by a Governing Board which provides strategic direction and stewardship.
- ❖ Our CoE has state of art facilities to provide a platform for industry standard training, application based research, Projects which can be converted in products, etc.
- ❖ CoE is in vicinity and surrounded by corporate IT companies which adds an ambience to it.
- ❖ It is a connecting link between academia and Industry.

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- ❖ It is equipped with training rooms with Centrally Air-conditioner facility, Latest HD projectors, comfortable and corporate like seating arrangements with not losing the feel of training rooms.
- ❖ It has a high bandwidth of 15 mbps dedicated fiber optics leased line.
- ❖ Two powerful servers one with 16 Cores and other with 8 Core Processors, about 100 GB of RAM and terabytes of storage space, which really works like monsters for processes.
- ❖ It is sheltered under an umbrella of Ganpat University for academic support and eInfochips for subject matter experts' skilled advice.
- ❖ For trainees it provides research labs, latest equipments, continuous guidance from Technical associates for their project and research work.
- ❖ CoE is developed with a broad vision of, train the trainers with its FDP programs, take the Govt. funded projects, Proof of Concepts, IPR, research Publications, Patents, Joint B. Tech and M. Tech Programs In VLSI, Embedded systems and Data Science respectively.
- ❖ Futuristic plan is for developing an incubation center and support Entrepreneurship Development Programs.



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About EC Department



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- ❖ Established in 1998.
- ❖ Builds a strong pipeline of future EC Engineers.
- ❖ Having thoroughly knowledgeable faculty members including graduates/post graduates from IITs & NITs.
- ❖ Serving Electronics, Communication and IT industry's challenges.
- ❖ Provides academic excellence along with extracurricular activities.
- ❖ Nurtures innovative technologists, who will carve a niche in the world of technology.



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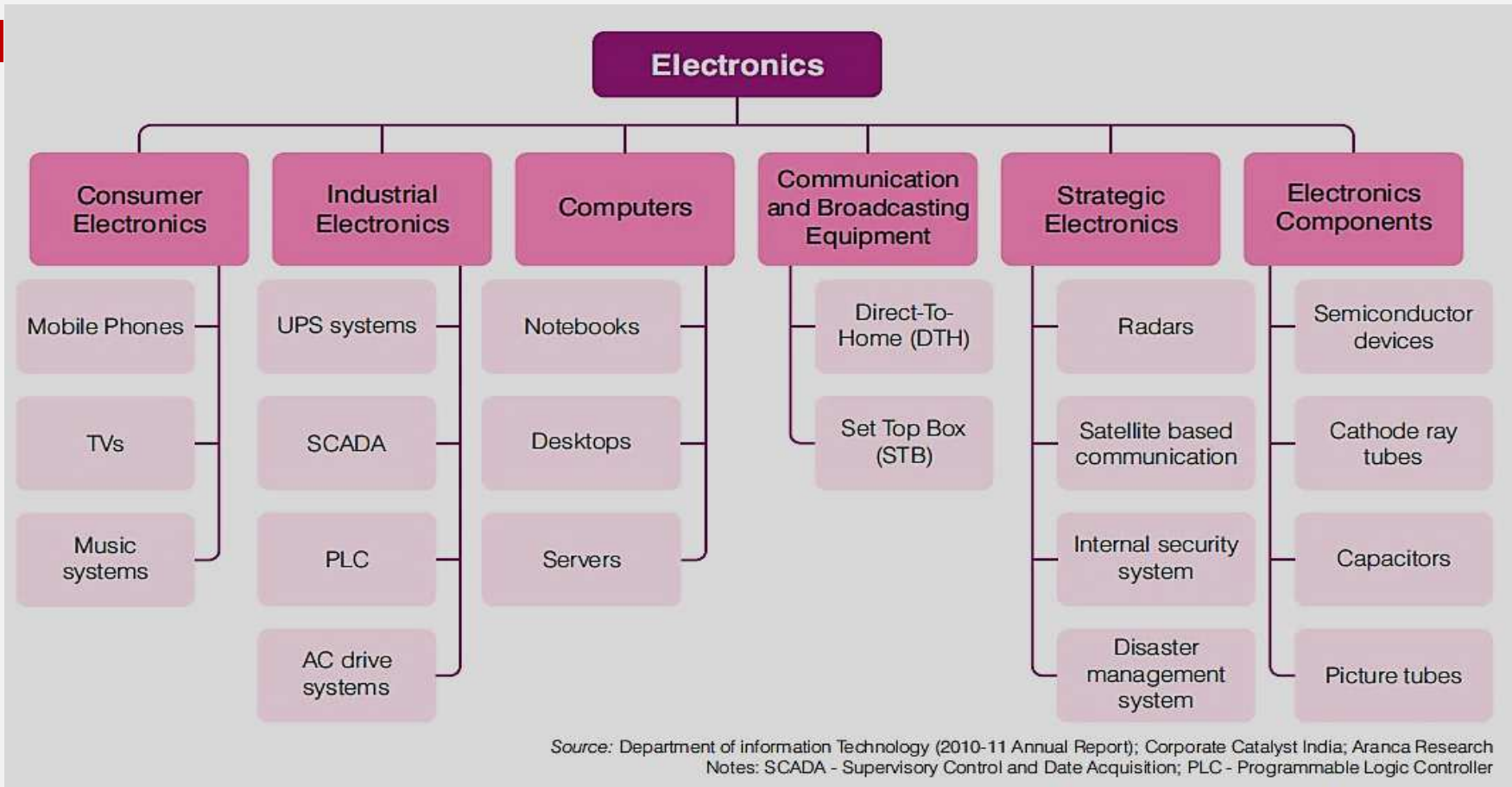
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Various sectors in EC



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Key Features



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- ❖ Well equipped laboratories with required software & hardware.
- ❖ Students are sent for project work in renowned Industries / Organizations like ISRO, IPR, PRL, Si-Bridge, TCS, e-Infochips, BSNL etc.
- ❖ Vast field under which there are lots of opportunities.
- ❖ Enough opportunities for students due to movements like Digital India, Make-in India.
- ❖ 4G/LTE Technology is creating best chances for the EC Engineers.
- ❖ Best Placement records so far.



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Programme Overview



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❖ M. Tech. (Electronics & Communication Engineering)

1. Full time Master degree program with duration : 2 Years
2. Approved by AICTE, New Delhi
3. Eligible students will get stipend from MHRD, Govt. of India

❖ M. Tech. (VLSI & Embedded Systems)

1. Full time Master degree program with duration : 2 years
2. In collaboration with e-Infochips, Ahmedabad
3. Approved by UGC, New Delhi



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Existing and Predictive Analysis



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- ❖ Demand for Electronic hardware in India in year **2012** was **USD 70 Billion** and is expected to grow to **USD 400 Billion** by **2020-** (survey Government of India-2012).
- ❖ In this case electronics import will far exceed country's oil import and would hurt its economy badly.
- ❖ Taking this into consideration Government of India took strong steps in terms of various schemes and policies for support and rapid growth of electronics and telecommunication industry in India.

(http://deity.gov.in/sites/upload_files/dit/files/NPE_Notification.pdf)



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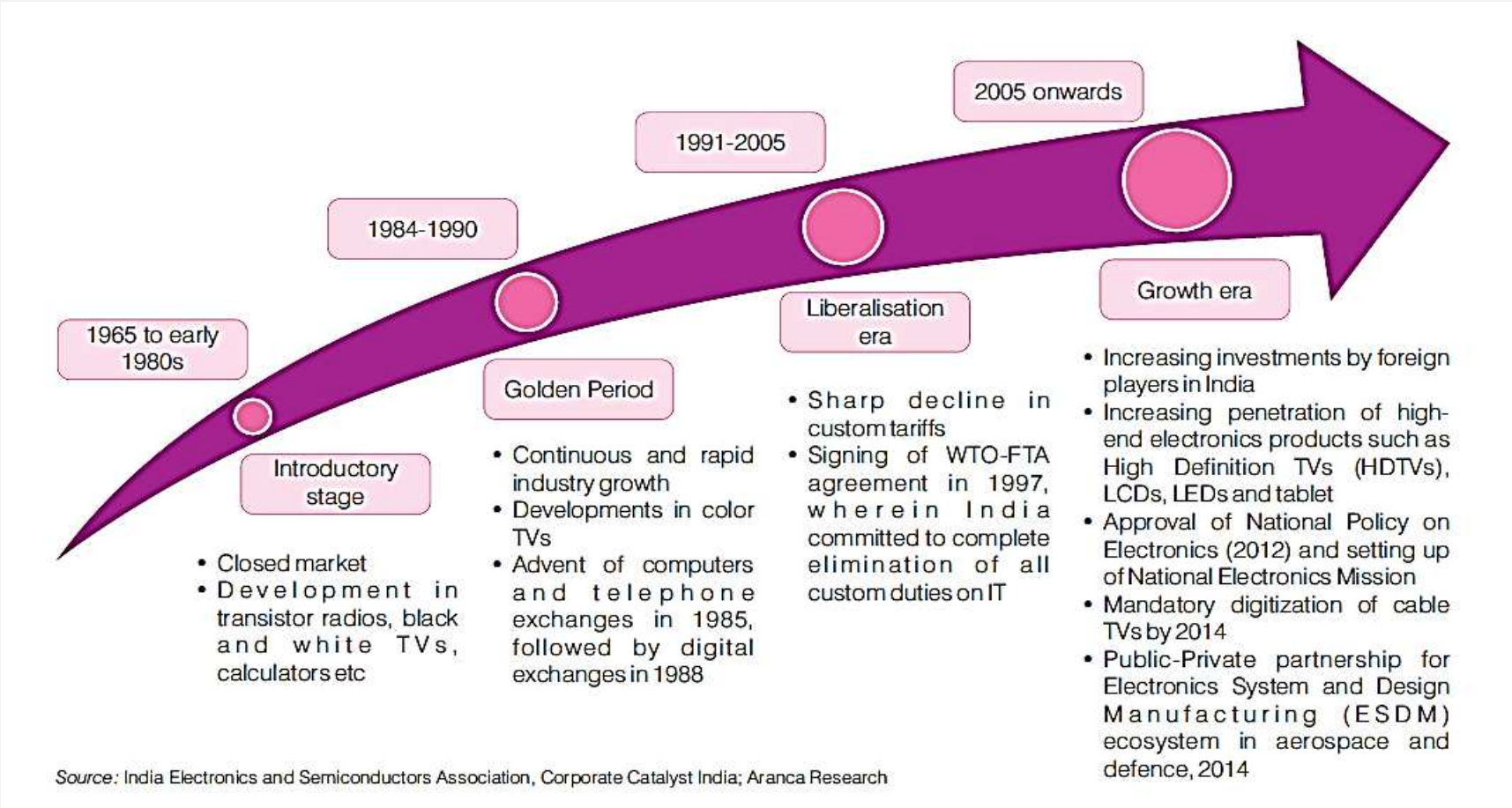
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Evolution of Electronics Sector



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Industry/Organization Associated



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M. Tech. Programme in Electronics & Communication Engineering with specialization in VLSI & Embedded Systems by U. V. Patel College of Engineering Jointly with e-Infochips Training and Research Academy (eiTRA)

- ❖ Ganpat University in collaboration with e-Infochips Training and Research Academy (eiTRA) has started M. Tech. program in VLSI & Embedded Systems.
- ❖ This is an Industry-Institute Interaction program where students applying for the course can get the benefits of University education and industry environment.
- ❖ The University has established an advanced laboratory facility and class-room facilities for the students.
- ❖ This M. Tech. program is unique, in terms of its real-time and project-based curriculum, industry-specific course content, state-of-the-art infrastructure, and complete VLSI and embedded placement guidance.
- ❖ The training offered in the field of VLSI and Embedded Programming is highly application-oriented.



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Salient Features of the Programme



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- ❖ A world class curriculum from leading global players and eInfochips.
- ❖ Lectures from renowned professors, Industry Experts from eInfochips and local faculties.
- ❖ State of Art labs equipped with EDA tools for Design, Verification and backend operations are in place with resourceful library.
- ❖ Tools : Synopsys DC (Design Compiler), Prime Time & TCAD for VLSI, Orcad For Hardware Board Design, VCS for Verification, Xilinx ISE for Digital Design.

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- ❖ Lectures & Assignments and projects in the ratio 1:2.
- ❖ Application oriented syllabus.
- ❖ Working with deadlines to have disciplined execution required for industry culture.
- ❖ 24x7 access to tools.
- ❖ Generation of skill matrix for performance evaluation.
- ❖ Benefit for Ganpat University Alumni (25% Scholarship).
- ❖ Early Bird Registration discount of 10% if admission done before 30th April 2018.



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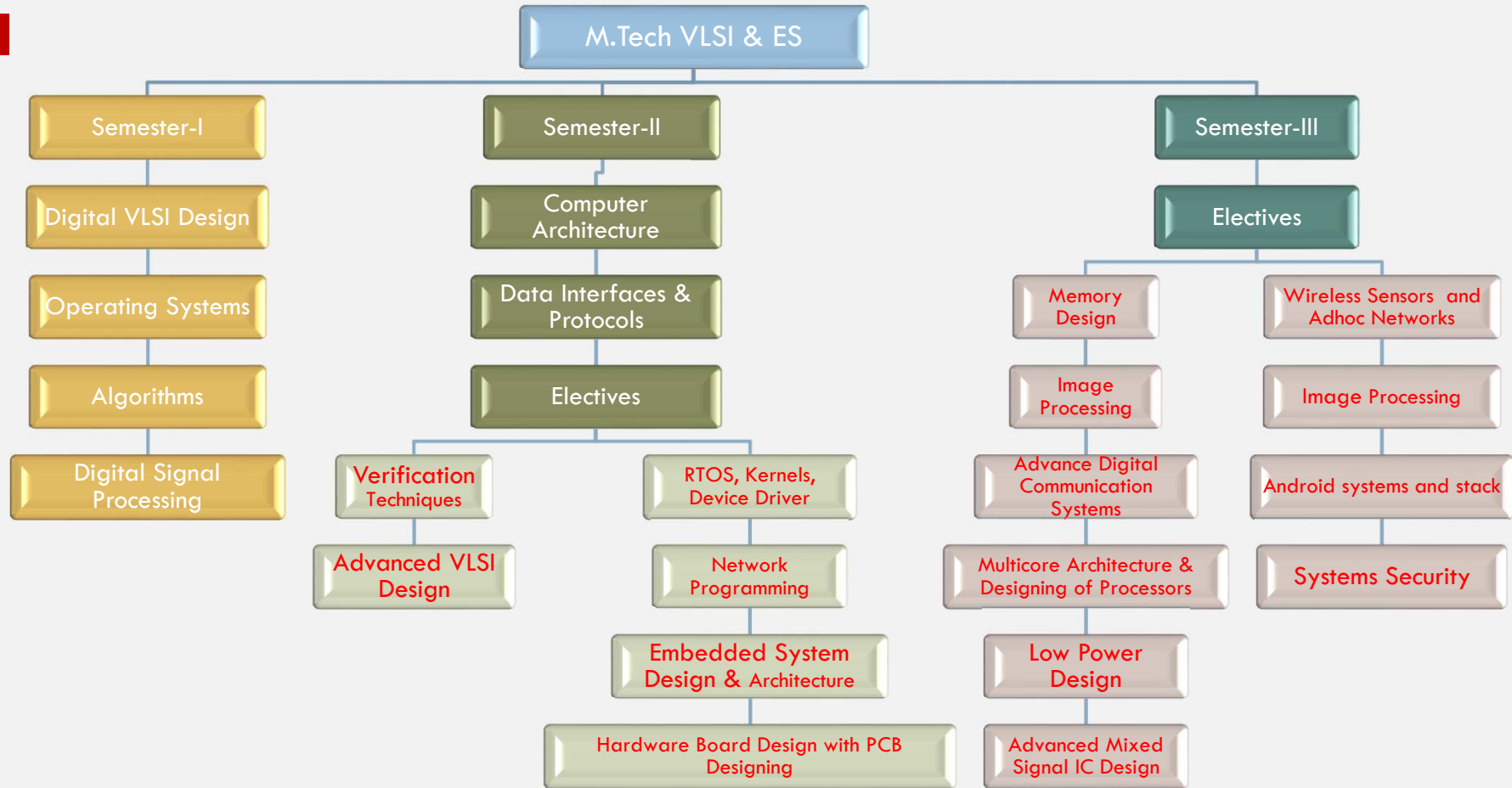
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Course Structure



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Software Skills Development



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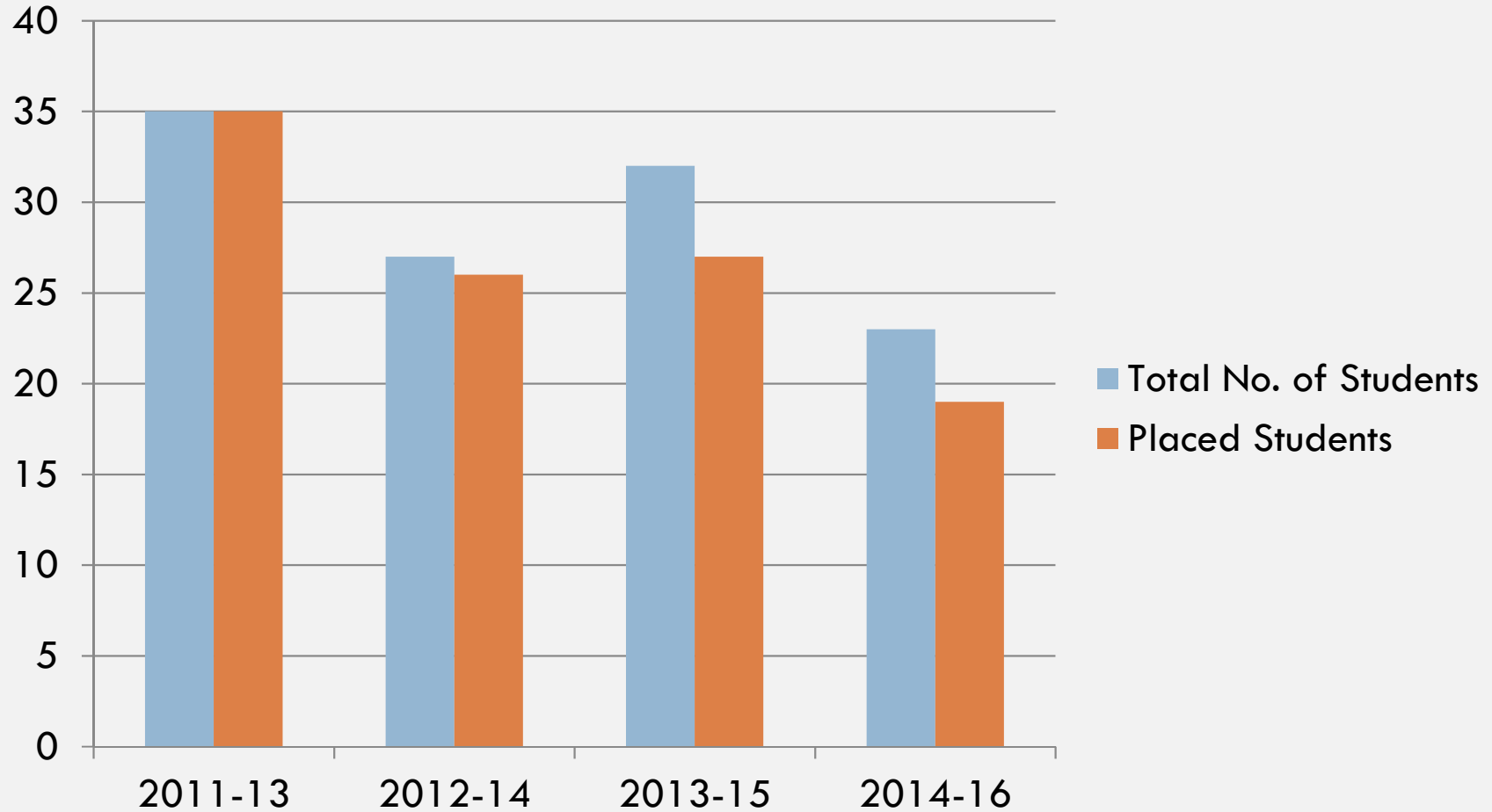
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Placement Record



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Endorsement from Industry



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Shri. Nilesh Ranpura
Delivery Manager ASIC
e-Infochip, Ahmedabad

- ❖ Electronics and Communication industry has been going at very good speed and making World a more **better, connected, secure, happy** and **socio-technology driven**. The industry has completed more than 50 years in the journey of **Transistor valves to CMOS-FINFET** technologies. Electronics Engineers have contributed in making this world dynamic, ubiquitous and continuously excitement driven.
- ❖ There is continuous need in Industry for good quality EC Engineers....Always...Irrespective of Recession/Growth. There is definitely a growth driven career. We as a industry are hiring 100 EC Engineers a year. As industry size grows, the number goes above.
- ❖ The focus key remains inside “Becoming Good Engineer”...!!! Every Engineer need to make him/herself a dream of becoming good Engineer. Good Engineer will have qualities of Good Thinking, Good Fundamentals and Good Attitude. If you have these qualities , Career in Electronics and Communication Industry will be Immense Growth.
- ❖ As someone has said “ No gain without Pain”..!! You have to be ready to take pain to get larger gain, EC Engineering is that first step towards the journey. I warmly welcome you all.



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Student's Testimonial



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“I would like to thank UVPCE for shaping my carrier and provide me a wing to fly in the sky of opportunities. I captured a lot of good memories from campus. Course content designed like it was exactly what the company needs from students. A Lot of Practical experiences with full of fun and learn concept. I would like to thank my faculties to support and guide through out all semesters. Administration staff also very supportive in any office related issues. They also awestruck optimism in me and provide platform for internship as well as job. I can say in brief that UVPCE put life long impression in my life.”

Mr. Dhaval Kaneria

Alumni Student (M. Tech VLSI & Embedded System)



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FOR FURTHER ASSISTANCE



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