DHARMSINH DESAI UNIVERSITY

Nadiad, Gujarat

NAAC ACCREDIATED – GRADE A

Academic Snapshot

2025-2026

DEPARTMENT OF

Electronics & Communication Engineering



www.ddu.ac.in

College Road, Nadiad - 387 001

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Inspiring Innovation

Est. 1981

Building Industry-ready Innovators for the Connected World

DDU EC

OVERVIEW

DEPARTMENT AT A GLANCE

Strong Fundamentals & Experiential Learning

Institute : Autonomous (1991), Deemed University (2000), State Private University (2005)
Department : 2 Times NBA Accredited

VISION

To be a leading Electronics & Communication department known for building industry-ready innovators, who advance a connected world.

MISSION

- Strengthen fundamentals through rigorous, hands-on learning
- Foster research-driven pedagogy with mini-projects and capstones
- Align curriculum with industry needs and emerging technologies
- Cultivate ethics, leadership, and societal impact

Electronics & Communication Engineering at Dharmsinh Desai University has been a cornerstone of technological education. As part of the Faculty of Technology — the crown jewel of DDU — the department has consistently produced industry-ready professionals who have made significant contributions to fields spanning telecommunications, space science, defense, healthcare, and beyond.

Academic Rigor

Research-driven teaching methodology with emphasis on mini-projects, capstone experiences, and continuous mentoring

Student Ecosystem

A vibrant environment featuring technical clubs, national hackathons, expert seminars and hands-on workshops

500+
Students on Campus
High Demand for Excellence

27
Faculty Members
One of the Largest Department

18
Years Average Experience
Highly Experienced Mentors

15
Years Average Association
Consistent Faculty Retention

DDU EC

ACADEMIC EXCELLENCE

PROGRAMS AND CURRICULUM FOCUS

NEP 2020 Aligned | Outcome-Based Education

Comprehensive Education Pathways from
Undergraduate Foundations to Doctoral Research in **Cutting-edge Electronics**

Industry Aligned

B.Tech.

4 YEARS

Electronics & Communication Engineering

- Strong fundamentals in Circuits, Systems & Modern Communication Technologies
- Integrated **Minor Degree** option in **VLSI Design**
- Emphasis on Hands-On and Mini-Projects from Early Semesters

Research Oriented

M.Tech.

2 YEARS

Electronics & Communication Systems

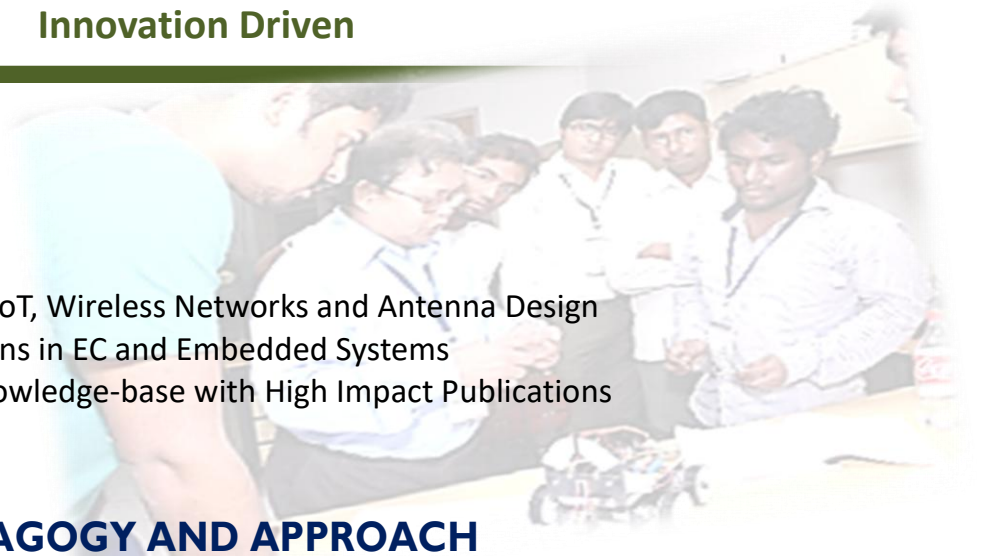
- Specialization in Communication Systems
- Advanced Electives aligned with Industry tTrends - VLSI Design, Advanced Signal Processing Techniques, etc.
- Includes 1 Full Year of Dissertation

Innovation Driven

Ph.D

Doctoral Research

- Cutting-edge Research in IoT, Wireless Networks and Antenna Design
- Focus on AI/ML Applications in EC and Embedded Systems
- Contribution to Global Knowledge-base with High Impact Publications



PEDAGOGY AND APPROACH

Continuous Assessment | Lab Intensive Courses | Mini Projects & Capstones | Rigorous Internship

Future-Ready Curriculum with Seamless Blending of Hardware–Software

CORE COMPETENCY AREAS

Focused Expertise across Emerging Domains Driving Innovation & Technological Excellence

IoT & Robotics

Comprehensive study of Smart Sensors, Automation Control Systems, and Industrial Internet of Things (IIoT) applications with Hands on Robotic Prototyping.

VLSI & Embedded Systems

Advanced design of Analog and Digital Integrated Circuits, FPGA Prototyping, and Development of Real-time Embedded System Architectures.

Microelectronics

Fundamental and Applied Research in Semiconductor Devices, Fabrication Technologies, and nano-electronics for next-gen Hardware.

Signal Processing

Techniques for Digital Image and Audio Processing, Pattern recognition and Biomedical Signal Analysis for Diagnostic Applications.

AI/ML in EC

Application of Artificial Intelligence and Machine Learning Algorithms for Signal Classification, Predictive Maintenance and Advanced Protocol Engineering.

Communication & Networks

Deep dive into Wireless Protocols, 5G/6G Technologies, Optical Fiber Communications, and Cognitive Radio Networks.

SPONSORED RESEARCH PROJECTS - ONGOING

Development of High Performance Overhead Bare Conductor for Transmission Line (High Voltage), APAR Industries Limited, 2024 (2 Years), **₹ 40,32,000**

Development of AI/ML based Waveform of 6G Air interface through Simulations and Test-bed Implementation, Telecom Centres of Excellence (**TCOE**), Department of Telecommunications, Govt. of India. 2025 (3 Years), **₹ 65,33,750**

Reconstruction of high resolution historical sea-level data using coarse resolution altimeter and high resolution observations from Surface Water and Ocean Topography mission, **ISRO RESPOND**, Department of Science (DOS), Govt. of India. 2026, (2.5 Years), **₹ 19.58.000**

Engineering Excellence - Rooted in Core Domains and Proven Through Research

DDU EC

STATE-OF-THE-ART FACILITIES

LAB INFRASTRUCTURE & RESOURCES

Bridging the Gap | Connecting Theoretical Concepts with Practical Implementation

100 +
Intel Computers
16 GB / 500 GB SSD / 21" LED

70 +
Hardware Trainer Kits
IoT, Antenna-Microwave, Communication

7
Hardware Laboratories
PS, FG, CRO & Essential Equipment

4
Computer Laboratories
Licensed OS, EDA Tools, Freeware

Core Laboratories

Digital & Analog Electronics
Microprocessors & Controllers
Basic Electrical Engineering

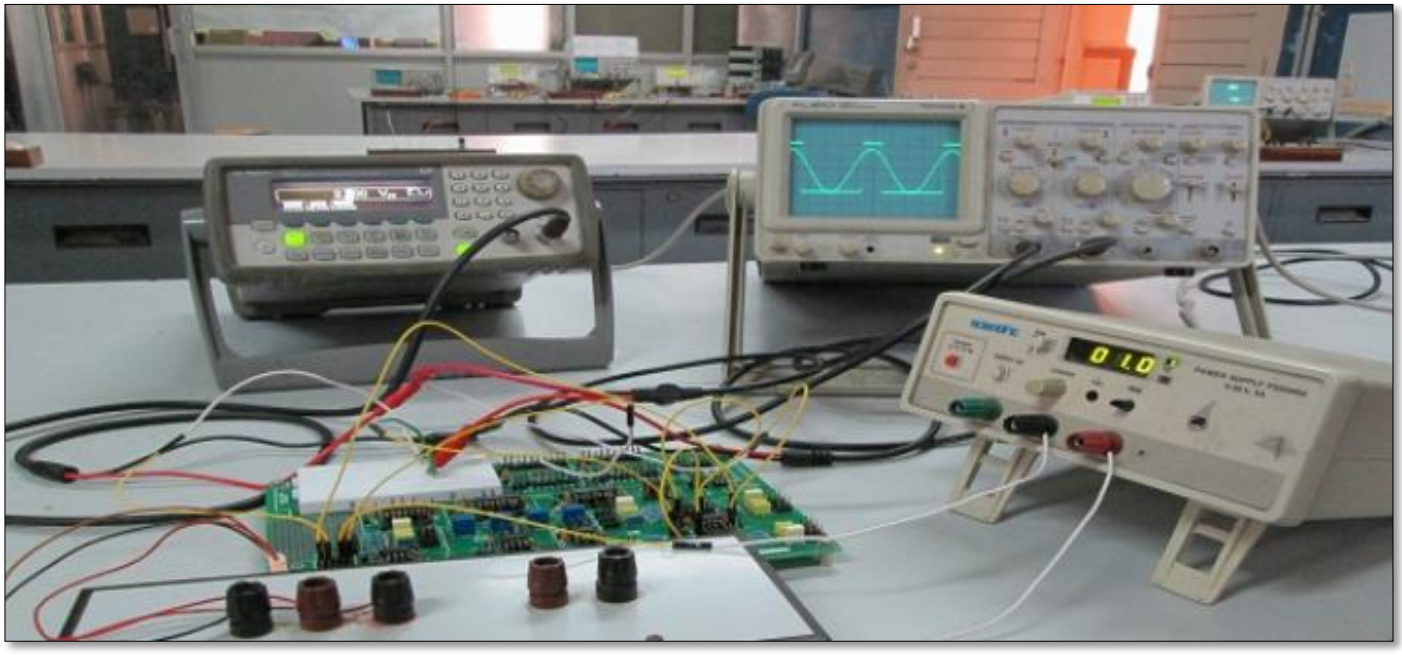
Advanced Research Labs

VLSI & Microelectronics
Microwave and RF Engineering
Advanced Communication
Network Simulation (WSN, CRN)
Image & Signal Processing

MATLAB cadence

Industry Standard Tools & Platforms

Dedicated Sections for Research (IoT, Solar, Robotics)
Licensed EDA tools (MATLAB, Cadence, T-CAD)
Development Kits (Xilinx, Altera, ARM, TI)
Academic & Professional Membership (RISC V, IEEE)



Learning beyond Classrooms, Enabled by an Integrated Advanced Ecosystem

DDU EC

MENTORS & LEADERS

FACULTY EXCELLENCE

Mentors & Leaders Driving Academic Innovation

Faculty Association with the department is a minimum of 10 Years with an average Association of 16 Years and average Experience of 17 Years.



HEAD – R&D DEPARTMENT

Dr. H. S. Mazumdar

Professor
51 Years Experience
AICTE ID : 1 -4771013272



HEAD OF DEPARTMENT

Dr. Purvang D. Dalal

Professor
26 Years Experience
AICTE ID : 1 -4771459760



GNUMS (ERP) Coordinator

Prof. Smith Thavalapill

Assistant Professor
25 Years Experience
AICTE ID : 1-4772789077



Dr. Vinay Thumar

Associate Professor
31 Years Experience



Dr. Pallavi Darji

Associate Professor
25 Years Experience



Dr. Yogesh Meghrajani

Associate Professor
24 Years Experience



Dr. Rizwan Alad

Associate Professor
22 Years Experience



Prof. Shital Thakkar

Associate Professor
25 Years Experience



Dr. Mitesh Limachia

Associate Professor
19 Years Experience



Dr. Ashish Pandya

Assistant Professor
20 Years Experience



Prof. Manish Patel

Assistant Professor
23 Years Experience

Leading with a vision to integrate research driven pedagogy and industry relevance

DDU EC

MENTORS & LEADERS

FACULTY EXCELLENCE

Mentors & Leaders Driving Academic Innovation



Dr. Narendrakumar Chauhan

Assistant Professor
18 Years Experience



Prof. Jitendra Shah

Assistant Professor
20 Years Experience



Prof. Hardik Patel

Assistant Professor
19 Years Experience



Prof. Bhavini Parmar

Assistant Professor
19 Years Experience



Prof. Harikrushna Rathod

Assistant Professor
19 Years Experience



Prof. Harshit Patel

Assistant Professor
18 Years Experience



Prof. Vasim Vohra

Assistant Professor
18 Years Experience



Prof. Keyukumar Patel

Assistant Professor
18 Years Experience



Prof. Sohilkumar Dabhi

Assistant Professor
18 Years Experience



Prof. Dipak Rabari

Assistant Professor
18 Years Experience



Prof. Mitul Shah

Assistant Professor
17 Years Experience



Prof. Biren Patel

Assistant Professor
16 Years Experience



Prof. Pinkesh Patel

Assistant Professor
16 Years Experience



Prof. Himanshu Prajapati

Assistant Professor
15 Years Experience



Prof. Goral Nakum

Assistant Professor
14 Years Experience



Dr. Sagar Kavaiya

Assistant Professor
4 Years Experience

A Legacy of Excellence – Guided by Expertise Driven by Experience

DDU EC

ACADEMIC EXCELLENCE

RESEARCH & INNOVATION

Contributions to Society through Impactful Teaching aligned with Global Standards,
Strong Academic Credentials, Industry Exposure and High-Quality Research

GRANTED PATENTS

- A METHOD OF LINK RETRANSMISSION DELAY MEASUREMENT AND CORRECTING ROUND TRIP TIME ESTIMATION USING CROSS LAYER SCHEME FOR REVISING TCP'S SENDING RATE IN WLAN
- GRAPHENE WITH FUNCTIONALIZED GRAPHENE AND PREPARATION METHOD THEREOF
- 3D MICROSCOPE

PUBLISHED PATENTS

- A NEAR-THRESHOLD 10T SRAM CELL WITH HIGH READ AND WRITE MARGINS FOR TRI-GATED FINFET TECHNOLOGY
- A HYBRID OFFSET COMPENSATED LATCH-TYPE SENSE AMPLIFIER (HOCLSA) FOR TRI-GATE FINFET TECHNOLOGY
- A MULTI-BAND METAMATERIAL HIGH-ABSORPTIVITY ABSORBER FOR L & C BAND
- SUBMARINE EXPLORER FOR UNDERWATER BODY EXAMINATION
- A WEARABLE INTELLIGENT SELF-DEFENCE SAFETY DEVICE
- A SYSTEM FOR CONTROLLED AUTONOMOUS MONITORING FOR DRONE
- SPEED BREAKER AND POTHOLE DETECTION
- SMART GLASSES FOR ASSISTIVE VISION
- A DRIVER ASSISTANCE SYSTEM
- MOBILITY AID DEVICE

… & more

200 +
Int. Articles Published

10 +
Indian Patents

50 +
Books/Book Chapters

10 +
Funded Projects

FACULTY OUTREACH & IMPACT

- CSR-linked activities
- Member of Academic Committees
- Invited Talks / Keynote Lectures
- Reviewer for Prestigious Journals

Google Scholar
https://l1nk.dev/dduecpublications

h-index : 18 | i10-index : 35

Distinguished by Research, Recognized through Patents and Publications

DDU EC

STUDENT CORNER

NURTURING TALENT BEYOND THE CLASSROOM

Classroom Learning to Holistic Development



Sports & Cultural Activities

Felicific – Cultural Week
Sports Week
Representing University at National Level Sports & Cultural Events



Spandan - Where Talent Speaks, Creativity Shines

It empowers students to showcase their creativity and passion. From cultural events to artistic performances, it brings talent to life. Celebrate expression, collaboration, & vibrant campus spirit.

Shutterbug - Freeze Moments Forever

It provides an inspiring platform for photography enthusiasts to hone their skills, share diverse perspectives, and transform fleeting moments into timeless visual stories.

NSS - Service to Society, Commitment to Nation

It inspires students to serve society with dedication and compassion. Through community engagement and social initiatives, students learn the value of responsible citizenship.

Provides Guidance & an Enabling Environment for students aspiring to succeed in Civil Services Examination such as the **Union Public Service Commission (UPSC)**. Fosters leadership, governance awareness, & a spirit of public service.

Empowering future leaders for public service

STUDENT CORNER

INNOVATION IMPACT & ACHIEVEMENTS

Measuring Excellence in Research and Students Innovation

Academic Year
2025-26

6
Published
Indian Patents

11
Conference/Journal
Publications

52
SSIP Projects

₹ 2.34 Lakhs
SSIP Funding

₹ 11 Lakh
CASH Prize Received

32
NPTEL Certifications

Innovation Activities

- SSIP funded Projects
- Technical Paper Publications & Patent filings
- Industry Supported Problem Solving

Competitions

- National Level Hackathons
- eYantra and Robofest (GUJCOST)
- National Level Technical Events – Techfest (IITB)

Scholarly Engagement

- e Certification (NPTEL)
- Involvement in Faculty Research
- Exposure to Joint Research with Industry

- Department Organizes Annual Technical Event – A Working Project Demonstration – **EUREKA** under the banner of **Spectrum Club (**Since 2021**)**.
- Mr. Neev Patel (23ECUOS094) received **$2000** worth Phasor Kit (Analog Devices, USA) & Participated at IEEE Radar Challenge Conference, Poland. **The work is published in Q1 Journal of USA.**
- 7 Teams of B.Tech. (EC) students selected for IInd Level in RoboFest 5.0, and 3 of them advanced to IIIrd Level. Total **Cash Prize received is ₹ 9.5 Lakhs**.
- Mr. Pranav Kothiya (23ECUOG074) received grant of **₹1.27 Lakhs** under SSIP from Anand Agriculture University

Empowering Students to Compete, Create and Contribute

DDU EC

CAREER PATHWAYS

INDUSTRY CONNECT & PLACEMENTS

Strong partnerships with industry fostering internships, projects, and real-world exposure.

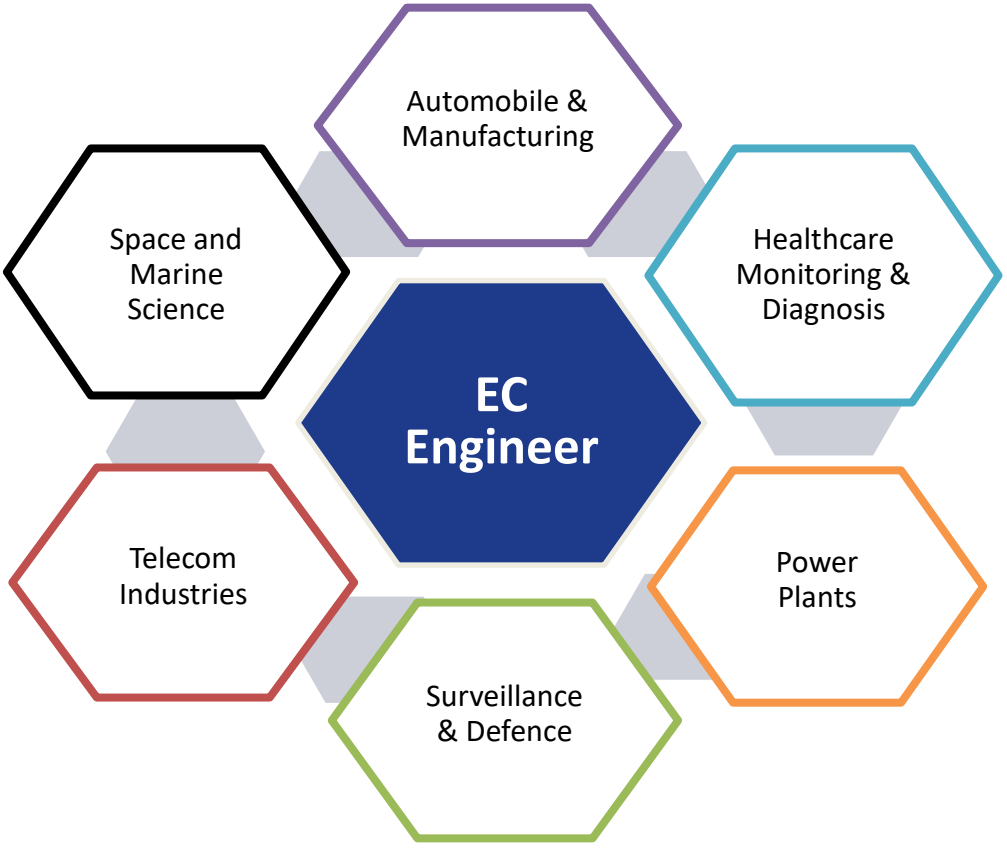
Industry Engagement

6
Active MoUs

₹ 1 CR +
Funding for Research

- √ Industrial Visits & Tours
- √ Industry Funded Projects
- √ Summer Internship
- √ Semester Long Internship
- √ Expert Lectures & Workshops
- √ Industry Expert on Board

Graduation Year
2025-2026



70 +
Students Placed
Turning Talent into Opportunity

20 +
Higher Studies
Inspiring Academic Excellence

7.5 LPA
Highest Package
Excellence Recognized by Industry

5.2 LPA
Average Package
Reflecting Strong Industry Demand

RECRUITERS & COLLOBORATORS

MOSCHIP · cadence · SYNOPSYS · VVDN TECHNOLOGIES · VMI GROUP · इसरो ISRO · SEMI · Physical Research Laboratory (PRL) · Infochips An Arrow Company · Infineon technologies · AKHILA LABS · micron

Consistent Placement Records reflecting strong Industry Demand for DDU EC Graduates

DDU EC

ALMA CONNECT

ALUMNI NETWORK & ACHIEVEMENTS

Strong Global Presence

Public Service & Defense



MR. PIYUSH PATEL
IPS, IG-BSF, Govt. of India
(1994)



MR. VISHALKUMAR VAGHELA
IPS, DIGP, SMC, Gandhinagar
(1999)

Civil Services (IRS)



MR. JIGAR RAVAL
IRS, First Secretary ITOU
(2000)



MR. KALPESH KAVAD
IRS, Dy. Com., **CBDT**, Ahmedabad
(2013)

Science & Space Research



UMANG PARIKH
SGM, ISTRAC, Bengaluru
(1995)



ARPIT PATEL
Scientist(E) , PRL, *Ahmedabad*
(2023, PHD)

Entrepreneurship



KEYUR RAKHOLIYA
Founder & MD,
Heaven Solar Energy Pvt. Ltd.,
Surat, **(2018)**



SMIT PATEL
Owner, SMART fill Solutions LLP,
Ahmedabad, **(2018)**

Alumni Involvement

- Contributions & Donations for Lab Development
- Expert Lectures & Skill Training Sessions
- External Examiners & Advisory Members
- Placement Support & Industry Networking
- CSR-Linked Activities & Mentorship

"Our alumni are our global ambassadors, bridging the gap between academia and the professional world."

Rooted Here, Succeeding Everywhere - Inspiring Future Aspirations

DDU ALUMNI ASSOCIATION

REGULAR ACTIVITIES

Strong Global Presence

Dharmsinh Desai University Alumni Association
Regular Activities

Merit cum Means Scholarship

The Association provides financial support of Rs. 10,000/- each to 30 students who are needy & meritorious each year since inception.

Travel Assistance

Any student or a group of students participating in any academic activity anywhere in India can get travel assistance in the form of to-and-fros three tier AC fare by shortest route. Nearly Rs. 50,000/- per year.

Other Activities

- Awarding prizes and medals to rank holding students.
- Financial support for expert lectures & field visits to the students.
- Notebook at subsidized rate to the students.

Pradip & Daksha Dalal Family Endowment Fund

Scholarship of Rs 25,000/- each is provided to 16 engineering students each year from a corpus of US$ 1,00,000/- since 2019.

Pradip Dalal Financial Aid

Financial Aid to the engineering students who have lost the main earning member of the family. In the year 2024-25 four students received Rs 30,000\- each.

Pradip Dalal Emergency Financial Aid

Emergency Financial Aid is given to the engineering students who lose the main earning member during the academic year.



Sustaining Excellence & Enriching Institutional Growth through Active Alumni Collaboration

Department of Electronics and Communication Engineering

Shaping Engineers. Inspiring Innovators. Building Tomorrow

Head of the Department
ec@ddu.ac.in

Training & Placement
tnp.ec@ddu.ac.in

Admission Enquiry
admission.ec@ddu.ac.in

DHARMSINH DESAI UNIVERSITY

Faculty of Technology,
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Gujarat. INDIA.

Webpage

Google Location

We welcome you to visit our campus or connect with us Digitally

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