



SSIP

Bahauddin Government Arts College

College Road, Junagadh (Gujarat)
Affiliated to Bhakta Kavi Narsinh Mehta University

SSIP

Events & Activities
Report

2025-26

DIY Kit Certificate Training Programme

Subject: 30-Hour Six-Day DIY Kit Certificate Training Programme Organized by the Innovation Club & SSIP

Bahauddin Arts College, Junagadh, through its Innovation Club in collaboration with the SSIP Cell, organized a 30-hour, six-day DIY Kit-based Certificate Training Programme from 29 December 2025 to 03 January 2026 with the objective of fostering innovation, creativity, and hands-on technical competence among students.

The programme formally commenced on 29 December 2025 with an inaugural ceremony followed by the registration process. During the inaugural session, the significance of experiential and technology-driven learning was highlighted, and participants were briefed about the structure and expected outcomes of the training. As part of the registration, each student was provided with a DIY kit, which served as the primary learning resource throughout the programme and enabled continuous practical engagement.

The training was conducted by Ms. Shubha Mehta, a STEM and Robotics expert, who acted as the resource person for the programme. Over the six days, the sessions were designed to offer a balanced blend of conceptual clarity and practical application. The training covered a wide range of contemporary technological domains, including basic and advanced electronics, Internet of Things (IoT), renewable energy technologies, Agri-tech kits, mechatronics, coding and application development, and drone flying. The hands-on nature of the sessions encouraged students to experiment, explore, and apply theoretical knowledge in real-time.

A total of 61 students participated actively in the training programme. Through sustained practical exposure and guided experimentation, students enhanced their problem-solving skills, scientific outlook, technical understanding, and innovative thinking. The DIY kit-based approach allowed students to gain confidence in handling tools and technology independently, thereby strengthening their capacity for self-directed learning. To ensure a supportive and comfortable learning environment, tea and refreshments were provided to all participants on each day of the programme.

Below mentioned syllabus was conducted during the six days workshop.

Day 1 – Basic Electronics

Students were introduced to the fundamentals of electronics, including concepts of voltage, current, resistors, diodes, semiconductors, and Ohm's Law. Hands-on activities involved connecting simple circuits such as LED blinking, controlling a buzzer using a push button, and understanding speed control mechanisms through the use of a potentiometer.

Day 2 – Advanced Electronics, Energy Conservation, and AR-VR

The second day focused on advanced electronics, where learners gained an understanding of microcontroller devices, their working principles, automation of manual systems, sensors, and programming basics. Sessions on energy conservation introduced solar cells, wind turbines, and water turbines, highlighting the conversion of kinetic energy into usable power. The day also included conceptual learning and hands-on exposure to Augmented and Virtual Reality technologies using an AR Globe.

Day 3 – Microcontroller Programming and IoT

Participants learned microcontroller programming using mobile phones, followed by a conceptual and practical introduction to the Internet of Things (IoT). The day also emphasized design engineering principles, encouraging students to think creatively while developing technology-based solutions.

Day 4 – Scientific and Aerial Technologies

On the fourth day, students explored advanced scientific tools and technologies, including telescopes and drones, gaining insights into their structure, functioning, and real-world applications.

Day 5 – Creativity, Observation, and Application Development

The fifth day provided hands-on experience with 3D pens, microscopes, and basic app development, enabling students to enhance creativity, observation skills, and digital application understanding.

Day 6 – Visual Block-Based Microcontroller Programming

The programme concluded with microcontroller programming using visual block-based interfaces, reinforcing logical thinking, problem-solving skills, and practical application of previously learned concepts.

The programme concluded on 03 January 2026 with a valedictory ceremony. During this session, students shared their feedback and reflections on the training experience. The participants expressed that the programme was not merely an academic exercise but an engaging and enjoyable learning experience, describing it as “learning with fun.” Many students acknowledged that the training broadened their understanding of practical technology and motivated them to pursue innovation-oriented and skill-based initiatives in the future.

The entire programme was organized under the guidance of the Principal, Dr. J. R. Vanza, by the Innovation and SSIP Cell Coordinator, Dr. Dipika Kevlani, with the support of her team Dr J J Vyas, Dr Dina Lodhia, Dr Rajendrasinh Parmar, Dr Jignesh Kacha, Dr Meghraj Jadeja and Dr Rachana Vaghela.

Presiding over the valedictory function, Principal Dr. J. R. Vanza appreciated the enthusiasm and active participation of the students and emphasized the relevance of such skill-oriented programmes in preparing learners for technology-driven and innovation-based careers. On successful completion of the programme, Certificates of Completion were awarded to all participating students.

Overall, the DIY Kit Certificate Training Programme proved to be a significant academic and skill-development initiative, effectively promoting self-reliance, innovation, and experiential learning, and reaffirming the institution’s commitment to providing future-ready and application-oriented education.

Photos of the Event:



**Inauguration and
Registration Ceremony**





Junagadh, Gujarat, India 🇮🇳
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Day 2



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Junagadh, Gujarat, India 🇮🇳
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Junagadh, Gujarat, India 🇮🇳
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Junagadh, Gujarat 362001, India
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Day 5





Day 5





Junagadh, Gujarat, India
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Junagadh, Gujarat, India
College Rd, Near Bhutnath Mahadev Temple, Gandhi Gram, Junagadh, Gujarat 362001, India
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Junagadh, Gujarat, India
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Junagadh, Gujarat, India
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Day 6



Junagadh, Gujarat, India
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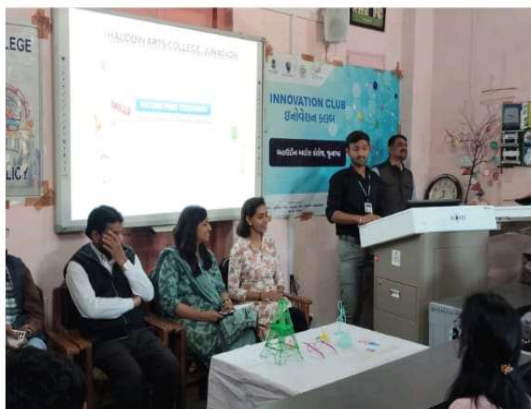


Junagadh, Gujarat, India
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Lat 21.50935° Long 70.459964°



Certificate Distribution







॥ સમાજ-સંસ્થા બ્રીફ ॥

બહાઉદ્દીન આર્ટ્સ કોલેજમાં છાત્રોને કિટ અને રોબોટિક્સ તાલીમ અપાઈ



જૂનાગઢ ભાસ્કર | શહેરની બહાઉદ્દીન આર્ટ્સ કોલેજમાં ઈનોવેશન ક્લબ અને એસએસઆઈપી દ્વારા આયોજિત 30 કલાકનો ડીઆઈવાય કિટ તાલીમ પ્રોગ્રામ સંપન્ન કરાયો હતો. એક્સપર્ટ શુભા મહેતાએ 61 વિદ્યાર્થીઓને રોબોટિક્સ, આઈઓટી અને ડ્રોન ટેકનોલોજીનું પ્રેક્ટિકલ જ્ઞાન આપ્યું હતું. આ તકે આચાર્ય ડૉ. જે.આર. વાંઝાના માર્ગદર્શન હેઠળ વિદ્યાર્થીઓને પ્રમાણપત્ર એનાયત કરી પ્રોત્સાહિત કરવામાં આવ્યા હતા.

બહાઉદીન વિનયન કોલેજમાં છ દિવસીય તાલીમ યોજાઈ



જૂનાગઢ, તા. ૩

જૂનાગઢની બહાઉદીન વિનયન કોલેજમાં ઈનોવેશન ક્લબ દ્વારા ડી.આઈ.વાય કીટ સર્ટીફિકેટ પ્રોગ્રામ વિષય પર છ દિવસીય તાલીમ કાર્યક્રમ યોજાયો હતો. જ્યારે એડવાન્સ ઈલેક્ટ્રોનિક્સ, ઈન્ટરનેટ ઓફ થીંગ્સ, રિન્યુએબલ એનર્જી સહિતના વિષય પર પ્રાયોગિક તાલીમ આપવામાં આવી હતી જેમાં ૬૧ વિદ્યાર્થીઓએ ભાગ લીધો હતો.

Dipika Kevlani

Submitted by:
Dr. Dipika Kevlani
Innovation Club & SSIP Coordinator