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## **-: પરિપત્ર :-**

વિજ્ઞાન વિદ્યાશાખા હેઠળની સંલગ્ન તમામ કોલેજોનાં આચાર્યશ્રીઓને તથા ડિપાર્ટમેન્ટના વડાશ્રીને જણાવવાનું કે, શૈક્ષણિક વર્ષ ૨૦૨૫-૨૬ થી અમલમાં આવનાર NEP - 2020 અંતર્ગત Bloom's Taxonomy અનુસાર PO (Uniform Structure) નું એકસમાન માળખું તૈયાર કરવા અંગે વિચારણા કરતા વિજ્ઞાન વિદ્યાશાખાની તા.૧૫/૦૩/૨૦૨૫ની સભાનાં ઠરાવ ક્રમાંક:૪ થી નીચે મુજબ કરેલ ભલામણને એકેડેમિક કાઉન્સિલની તા.૨૦/૦૩/૨૦૨૫ની સભાનાં ઠરાવ ક્રમાંક:૧૭ થી સ્વીકારી મંજૂર કરવામાં આવે છે. જેનો અમલ કરવા આથી જાણ કરવામાં આવે છે.

### **વિજ્ઞાન વિદ્યાશાખાની તા.૧૫/૦૩/૨૦૨૫ની સભાનાં ઠરાવ ક્રમાંક:૪**

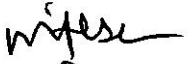
:: આથી ઠરાવવામાં આવે છે કે, શૈક્ષણિક વર્ષ ૨૦૨૫-૨૬ થી અમલમાં આવનાર વિજ્ઞાન વિદ્યાશાખાનાં NEP-2020 મુજબનાં તમામ અભ્યાસક્રમ માટે સમાન PO મંજૂર કરવા એકેડેમિક કાઉન્સિલને ભલામણ કરવામાં આવે છે.

### **એકેડેમિક કાઉન્સિલની તા.૨૦/૦૩/૨૦૨૫ની સભાનાં ઠરાવ ક્રમાંક:૧૭**

:: આથી ઠરાવવામાં આવે છે કે, વિજ્ઞાન વિદ્યાશાખાની તા.૧૫/૦૩/૨૦૨૫ની સભાનાં ઠરાવ ક્રમાંક:૪ અન્વયે કરેલ ભલામણ સ્વીકારી મંજૂર કરવામાં આવે છે.

(બિડાણ: ઉપર મુજબ )

ક્રમાંક: ઓથો./સાયન્સ/પરિપત્ર/૭૩૨૦/૨૦૨૫  
તા.૨૪/૦૩/૨૦૨૫

  
કુલસચિવ UoA

પ્રતિ,

- ૧) વિજ્ઞાન વિદ્યાશાખા હેઠળની સંલગ્ન તમામ કોલેજોનાં આચાર્યશ્રીઓ તથા ડિપાર્ટમેન્ટનાં વડાશ્રી.  
.....આપશ્રીની કોલેજ/વિભાગના સંબંધિત શિક્ષકોને જાણ કરી અમલ કરવા સારું.
- ૨) અધ્યક્ષશ્રી, વિજ્ઞાન વિદ્યાશાખા.
- ૩) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.  
.....તરફ જાણ તેમજ અમલ સારું.

## POs for All UG Science Programs

**PO-01: Scientific Knowledge & Conceptual Understanding:** Develop a strong foundation in scientific principles, theories and concepts across disciplines, fostering interdisciplinary learning, advance knowledge and problem-solving abilities.

**PO-02: Analytical & Critical Thinking:** Apply critical thinking and analytical reasoning to evaluate scientific data, hypotheses and real-world problems, leading to evidence-based conclusions.

**PO-03: Research & Inquiry-based Learning:** Develop investigative skills through experimentation, data analysis and scientific inquiry to contribute to research and innovation.

**PO-04: Laboratory & Technical Skills:** Gain hands-on experience with laboratory techniques, instrumentation and computational tools relevant to scientific research and industry applications.

**PO-05: Digital & Computational Literacy:** Utilize digital tools, computational techniques and emerging technologies such as AI, bioinformatics and statistical modelling to enhance scientific learning and problem-solving.

**PO-06: Environmental & Societal Responsibility:** Understand the role of science in addressing environmental, health and societal challenges, promoting sustainability and ethical responsibility.

**PO-07: Effective Communication & Collaboration:** Develop proficiency in scientific communication, both written and oral, for effective dissemination of knowledge while collaborating in multidisciplinary teams.

**PO-08: Innovation & Entrepreneurship:** Foster an entrepreneurial mind-set by applying scientific knowledge for innovation, technology development, and industry-oriented applications. Develop sustainable solutions to address real-world challenges in research and environmental management.

**PO-09: Lifelong Learning & Professional Growth:** Cultivate curiosity and adaptability for continuous learning, equipping students for higher education, research, and professional careers.

**PO-10: Ethical Leadership & Value-based Education:** Develop leadership qualities, ethical values, and a sense of responsibility in applying science for societal progress, aligning with Indian knowledge systems and global perspectives.

## POs for All PG Science Programs

**PO-01:** Advanced Knowledge & Conceptual Understanding: Demonstrate in-depth knowledge of core principles and emerging trends in the chosen scientific discipline. Integrate multidisciplinary scientific concepts to address real-world challenges in research and industry.

**PO-02:** Research & Analytical Skills: Develop critical thinking, problem-solving and research-oriented skills for innovation and scientific advancements. Apply modern experimental, computational and statistical tools for data analysis and evidence-based conclusions.

**PO-03:** Technological Proficiency & Instrumentation: Gain expertise in advanced laboratory techniques, computational modelling and high-end scientific instrumentation. Utilize cutting-edge technologies such as artificial intelligence, bioinformatics and nanotechnology for scientific exploration.

**PO-04:** Environmental & Societal Impact: Understand the role of science in addressing environmental sustainability, public health and resource management. Contribute to biodiversity conservation, sustainable agriculture and climate change mitigation through scientific solutions.

**PO-05:** Innovation & Entrepreneurship: Apply scientific knowledge for the development of innovative products, processes and services in industry & start-ups. Promote entrepreneurship in science and technology, healthcare, analytics and environmental sciences through technology transfer.

**PO-06:** Communication & Collaborative Research: Develop proficiency in scientific communication, technical writing and effective dissemination of research findings. Engage in interdisciplinary collaborations, industry-academic partnerships and global research networks.

**PO-07:** Ethical & Value-Based Scientific Practices: Uphold scientific integrity, ethical research practices and social responsibility in professional and academic endeavours. Apply knowledge with a strong ethical framework, considering societal, legal and environmental implications.

**PO-08:** Lifelong Learning & Career Readiness: Cultivate a mind-set for lifelong learning, professional growth and adaptability to new scientific developments. Prepare for higher education, research careers, competitive exams and industry-oriented roles in science and technology.