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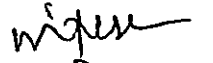
પ્રતિ,
વડાશ્રી,
બાયોટેકનોલોજી ડિપાર્ટમેન્ટ,
વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી,
સુરત.

વિષય:- M.Sc. Biotechnology અભ્યાસક્રમના PSO બાબત.

સુશ્રી,

સવિનય જણાવવાનું કે, M.Sc. Biotechnology અભ્યાસક્રમના PSO બાયોટેકનોલોજી વિષયની અભ્યાસ સમિતિની તા.૦૨/૦૪/૨૦૨૬ ની સભાના ઠરાવ ક્રમાંક:૦૭ થી મંજૂર કરી વિજ્ઞાન વિદ્યાશાખાને કરેલ ભલામણ વિજ્ઞાન વિદ્યાશાખાની તા.૦૪/૬/૨૦૨૬ ની સભાના ઠરાવ ક્રમાંક:૧૭ થી મંજૂર કરવા એકેડેમિક કાઉન્સિલને કરેલ ભલામણ એકેડેમિક કાઉન્સિલની તા.૧૮/૦૬/૨૦૨૬ ની સભાના ઠરાવ ક્રમાંક:૧૬ થી મંજૂર કરેલ છે. જેનો અમલ કરવા આથી જાણ કરવામાં આવે છે.

(બિડાણ: ઉપર મુજબ)


કુલસચિવ

પ્રતિ,

(૧) અધ્યક્ષશ્રી, વિજ્ઞાન વિદ્યાશાખા,

(૨) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.

.....જાણ સારૂ.

Proposed: Program Specific Outcomes (PSOs):

M. Sc. Biotechnology (NEP 2020 PG Program)

1. PSO-01: Advanced Domain Knowledge in Biotechnology: Students will demonstrate in-depth understanding of advanced concepts in molecular biology, genomics, proteomics, bioinformatics, synthetic biology, biostatistics and emerging interdisciplinary areas of biotechnology to address complex biological problems.
2. PSO-02: Research Design & Scientific Inquiry: Learners will design, execute and interpret advanced experimental protocols using modern laboratory techniques, computational tools and statistical methods. They will develop the ability to undertake independent research and contribute to scientific publications or innovative outcomes.
3. PSO-03: Technological & Instrumentation Proficiency: Students will acquire expertise in high-end biotechnological instrumentation, omics technologies, gene editing tools, computational modelling, AI-based bioinformatics applications and industrial bioprocess systems.
4. PSO-04: Translational & Industrial Biotechnology Competence: Graduates will apply biotechnological knowledge for product development, scale-up, quality assurance, regulatory compliance and commercialization in healthcare, agriculture, environmental biotechnology and allied industries.
5. PSO-05: Innovation, Entrepreneurship & Technology Transfer: Students will develop capability to translate research outputs into viable products, processes or services. They will understand intellectual property rights, regulatory frameworks, start-up ecosystems, funding mechanisms and technology transfer pathways in biotechnology.
6. PSO-06: Ethical, Regulatory & Biosafety Responsibility: Learners will uphold ethical research practices, biosafety standards, legal compliance and societal responsibilities while conducting research or engaging in biotechnology-based professional activities.
7. PSO-07: Scientific Communication, Leadership & Collaboration: Students will demonstrate proficiency in scientific writing, research documentation, grant proposal drafting and effective oral communication. They will exhibit leadership and collaborative skills in multidisciplinary and industry-academic settings.
8. PSO-08: Lifelong Learning & Global Scientific Readiness: Graduates will cultivate adaptability, professional competence and readiness for doctoral research, industry leadership, competitive examinations and global scientific engagement.