

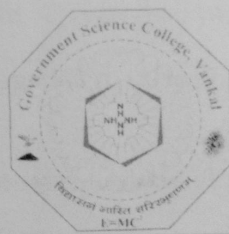
**MEMORANDUM OF UNDERSTANDING
FOR
ACADEMIC AND SCIENTIFIC
COOPERATION
BETWEEN**



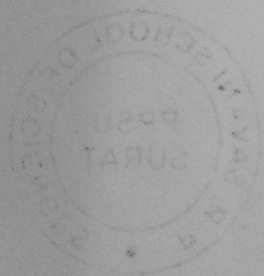
**P P SAVANI
UNIVERSITY**

P P SAVANI UNIVERSITY, SURAT

&



GOVERNMENT SCIENCE COLLEGE, VANKAL
TA. MANGROL, DIST. SURAT - 394430

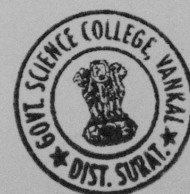
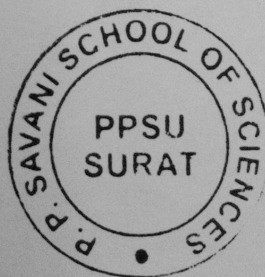


Memorandum of Understanding

P P SAVANI UNIVERSITY, SURAT - 394125 (PPSU) and GOVERNMENT SCIENCE COLLEGE, VANKAL - 394430 (GSCV) hereby agree to sign a memorandum of Understanding (MoU) for the following objectives and described academic, research related and community welfare activities with terms/conditions attached to them.

OBJECTIVE OF THE AGREEMENT

- 1 To establish a mutually beneficial relationship built on academic, scientific and cultural cooperation. Areas of cooperation between the institutes include the exchange of faculties, researchers and students.
- 2 The signing institutes agree to provide opportunities, as appropriate for the following activities towards completion of objective of this MoU.
 - a) Exchange of faculty members and/ or researchers with the objective of offering courses and realizing research project in areas with mutual agreement by both colleges through prior invitation.
 - b) Exchange of undergraduate students with the objectives of utilizing existing infrastructural facilities, interacting with professors and students of their relevant subject, understanding teaching - learning environment of each other.
 - c) Support reciprocity in college extension activities of common interest.
 - d) Exchange of books, scientific publications, academic projects, course information.
 - e) Conducting jointly and/or supporting seminars, conferences, and any other similar events of common interest.
 - f) Develop joint research projects and joint publications.



STUDENT EXCHANGE

- a) Under the students exchange a group of students (5 to 6 students) of different discipline will visit the institute for an assigned period of time.
- b) The host institution will assist the students in securing personal and academic support prior to and during the period of exchange.
- c) All other expenses shall be the direct responsibility of the student concerned.

These expenses include: -

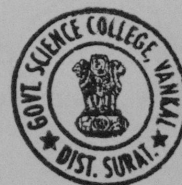
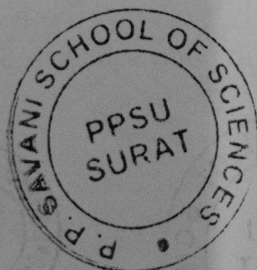
- I. Travel expenses
- II. Personal expenses
- III. Books and academic materials supplies
- IV. Administrative fees, if any

FACULTY AND RESEARCHERS EXCHANGE

With the objective of strengthening ties through joint projects and activities of both Colleges, the MoU allows for the creation of faculty and researcher exchange. The following conditions will apply: -

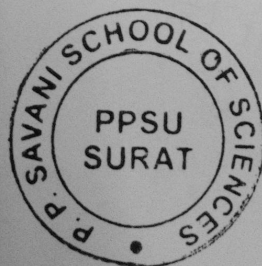
- a) The professors and researchers will maintain their status as faculty members at their home institution for the duration of the exchange.
- b) All other expenses shall be the direct responsibility of the faculty or researcher concerned. These expenses include: -

- I. Travel expenses
- II. Personal expenses
- III. Books and academic supplies
- IV. Administrative fees, if any



The terms and conditions of this Indenture between PPSU and GSCV shall be as under:

1. Jointly organize seminars/workshops/conference/competition for academic, research, employability, awareness etc.
2. Both colleges shall be organizing programs related to Science and Technology.
3. Both the Institutional partners will have to arrange and provide all the necessary support in the form of infrastructure and other logistic support to conduct the joint or/and self-designed academic and social awareness based various programs like science fair, scientific gatherings i.e. seminars, conferences, workshops and symposia.
4. The Institutional partners **PPSU** and **GSCV** shall have to arrange materials for hardware/software/instruments/ required for imparting programs at its center.
5. Prepare and published jointly the educational materials, CDs, books, papers, research articles and journals.
6. Mutually exchange students and teaching faculty for educational/research purposes.
7. Institute shall use their own resources for effective publicity/promotion for the successful organization of joint events of common interest.
8. This agreement shall come into effect from 05/07/2021 and valid up to one year.
9. Changes to this agreement shall be made by mutual consent between both institutions.
10. In cases of disagreement, the College wishing to depart from the agreement shall, wherever possible, give three months notice of its intention to do so.
11. This agreement shall also be terminated in case: is agreement period over, is criminally convicted or indulges in any criminal activity, in case the institutional partners incapable of fulfilling its role and responsibilities.
12. The agreement shall be reviewed after a period of six month and May also extended the period of this agreement on mutually agreeable terms and conditions to institutional partners on expiry of the one-year period.
13. In order to promote further scholarly exchange both institutions shall actively consider the exchange of teaching faculty and scholars. Such exchange shall be the



subject of adhoc (temporary), need base, faculty consultation and as per government rules-regulation.

- 14. The agreement is non-transferable.
- 15. All notices required to be served by either or parties upon the other shall be deemed to have been duly sent and served if delivered personally.
- 16. Correspondence about this agreement shall be conducted between the principals of the colleges.

IPR

Rights regarding publications, patents, royalty, ownership of software / design / product developed etc. under the scope of this MoU, shall be decided by the two parties by mutual consent.

AMENDMENTS

Any amendment to the AGREEMENT shall be in writing and signed by the PARTIES here to and shall only after such execution is deemed to form part of the AGREEMENT and have the effect of modifying the AGREEMENT to the extent require by such amendment.

[Signature]
PRINCIPAL
SCHOOL OF SCIENCES
P. P. SAVANI UNIVERSITY
SURAT - 394125
P P Savani University

[Signature]
Principal
Govt. Science College, Vankal
Ta. Mansar, Dist. Surat, Vankal

Witness: 1) *[Signature]*

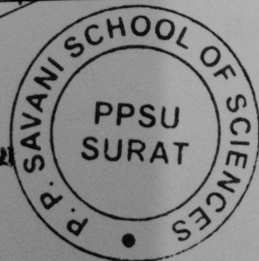
Witness: 1) *[Signature]*

Witness: 2) *[Signature]*

Witness: 2) *[Signature]*

Date: 05/07/2021

Place:



Expert lecture on "Polymerized Chain Reaction (PSR) & Its Application"

Date: 06/02/2022

Speaker: Dr. Ashutosh Kumar (P P Savani University)

Dr. Ashutosh Kumar's expert lecture on "Polymerized Chain Reaction (PSR) & Its Application" provided a comprehensive overview of this advanced biochemical technique and its diverse applications. Dr. Kumar began with an in-depth explanation of PSR, detailing how it functions similarly to the well-known Polymerase Chain Reaction (PCR) but with enhanced efficiency in amplifying nucleic acids. He emphasized the innovative aspects of PSR, such as its ability to work at a constant temperature, which simplifies the process and reduces equipment costs.

Dr. Kumar highlighted several key applications of PSR across various fields. In the medical domain, he illustrated how PSR is used for rapid and accurate diagnostic testing, particularly in detecting pathogens in clinical samples. He also discussed its significance in environmental science for monitoring microbial contamination in water and soil. In agriculture, PSR's role in genetic testing of crops to identify beneficial traits and resistance to diseases was underscored.

Furthermore, Dr. Kumar presented case studies showcasing successful PSR applications, including its impact on improving diagnostic turnaround times and enhancing the reliability of genetic analyses. The lecture was supported by visual aids and real-world examples, which clarified complex concepts and demonstrated the practical utility of PSR. The session concluded with a Q&A segment, where Dr. Kumar addressed inquiries about the future potential of PSR and its integration with other genomic technologies. Overall, Dr. Kumar's presentation was both informative and engaging, offering valuable insights into the evolving landscape of molecular diagnostics and biotechnological advancements.



Principal
Government Science College
At. Po. Vankal,
Tal. Mangrol, Dist. Surat



Expert lecture on "Transgenic Plants"

Date: 10/02/2022

Speaker: Dr. Anish Sharma (Principal, School of Life Science, P P Savani University)

Dr. Anish Sharma, Principal of the School of Life Science, delivered an enlightening lecture on "Transgenic Plants," elucidating the transformative potential of genetic engineering in agriculture. Dr. Sharma began by defining transgenic plants—those genetically modified to express genes from other organisms. He elaborated on the techniques used to create these plants, such as Agrobacterium-mediated transformation and gene gun methods, highlighting their roles in enhancing plant traits.

Dr. Sharma emphasized the practical applications of transgenic plants, focusing on their contributions to crop improvement. He provided examples of genetically engineered crops with traits such as pest resistance, herbicide tolerance, and improved nutritional profiles. Notable cases included Bt cotton, which produces a protein toxic to certain pests, and Golden Rice, engineered to produce provitamin A to combat vitamin A deficiency in developing countries.

The lecture also addressed the regulatory, ethical, and environmental considerations associated with transgenic plants. Dr. Sharma discussed the stringent safety assessments and regulatory frameworks designed to ensure that genetically modified crops do not adversely affect human health or the environment. He also highlighted ongoing research aimed at addressing public concerns and improving the sustainability of transgenic agriculture.

Dr. Sharma concluded with a discussion on future prospects, including the potential of transgenic plants in addressing global food security challenges and their role in adapting to climate change. The session, enriched with visual aids and case studies, provided attendees with a thorough understanding of the science, applications, and implications of transgenic plants, making it a highly informative and engaging experience.



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