

MEMORANDUM OF UNDERSTANDING
FOR
ACADEMIC AND SCIENTIFIC
COOPERATION
BETWEEN



GOVERNMENT ARTS, SCIENCE AND COMMERCE
COLLEGE, UMARPADA

&



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

Memorandum of Understanding

GOVERNMENT ARTS, SCIENCE AND COMMERCE COLLEGE, UMARPADA - 394445 (GASCU) 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 GASCCU 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 **GASCCU** 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 01/07/2021 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.

H. A. Mehta
for **PRINCIPAL**
Principal
Govt. Arts, Commerce & Science College, Umarpada.
Government Arts, Science and Commerce College, Umarpada.
Ta. Umarpada, Dist. Surat.

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

Witness: 1) *H. A. Mehta*

Witness: 1) *[Signature]*

Witness: 2) *[Signature]*

Witness: 2) *[Signature]*

Date: 01/07/2020

Place: UMARPADA



Expert lecture on " Nuclear Physics "

Date: 07/02/2023

Speaker: Dr. Aakash Hingu (Government Arts science and Commerce College Umarpada)

Dr. Aakash Hingu delivered a comprehensive lecture on "Nuclear Physics," shedding light on the intricate principles and applications of this fundamental field of physics. The session began with an overview of nuclear physics, focusing on the structure and behavior of atomic nuclei. Dr. Hingu explained key concepts such as nuclear forces, nuclear decay, and the significance of different types of radiation, including alpha, beta, and gamma radiation.

He provided an in-depth analysis of nuclear reactions, including fission and fusion processes, and discussed their applications in energy production and medical treatments. Dr. Hingu illustrated how nuclear fission, used in nuclear reactors, generates significant amounts of energy, while nuclear fusion, the process powering the sun, holds promise for future energy solutions. He also detailed how nuclear physics contributes to medical imaging techniques like PET scans and cancer treatments through radiation therapy.

The lecture covered recent advancements in nuclear physics research, including the study of exotic nuclei and the exploration of fundamental questions about the forces governing atomic nuclei. Dr. Hingu highlighted the role of particle accelerators and detectors in advancing our understanding of nuclear processes.

The session concluded with a discussion on the ethical considerations and safety measures associated with nuclear technology. Dr. Hingu's engaging presentation was supported by visual aids and real-world examples, providing a thorough understanding of nuclear physics and its implications. The lecture was highly informative, offering valuable insights into the ongoing developments and applications of nuclear physics in both scientific research and practical domains.



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

