

Activity Report For the month of October 2022 (Physics Department)

I. DEPARTMENTAL ACTIVITIES

Quarks Club Activities

Dr. Miskil Naik

1. Inaugurated Quarks club to conduct various science related activities on 1st October 2022. Dr. Lalat Indu Giri, Assistant Professor, Department of Electronic and Communication, NIT, Goa was invited as the chief guest for the function.



2. Organised talk by Dr. Lalat Indu Giri, Assistant Professor, Department of Electronic and Communication, NIT, Goa on “Discovery and Applications of transistors”. On 1st October 2022. The talk was attended by 44 students.



Personality Enhancement Programmes:-

Dr. Kapil Salkar

Quarks Club of the Department of Physics, DCT's Dhempe College of Arts and Science organized a field trip of Quarks club members to the School of Physical and Applied Sciences(SPAS), Goa University on 20th October 2022. During the visit students interacted with the faculty members from SPAS. They were also exposed to the research laboratories and the research work ongoing in the department. The field trip was attended by 22 students.



- i. Green Activities:-
- ii. Crossover Learning Initiatives:- NIL
- iii. Activities with Alumni-participation :NIL
- iv. Nodal Activities NIL

II. E-CONTENT CREATION AND INNOVATIVE PEDAGOGICAL PRACTICES

Dr. Swati Pawar

Recorded 2 translated modules in Konkani for DISHTAVO, S.Y.B.Sc , Paper PYC 107 on 14/10/2022 at HRDC, Goa University.

Dr. Ramu Murthy

Recorded 2 translated modules in Konkani for DISHTAVO, S.Y.B.Sc , Paper PYC 103 on 12/10/2022 at HRDC, Goa University.

Dr. Miskil Naik

Recorded 2 translated modules in Konkani for DISHTAVO, Paper PYC 105 on 12/10/2022 at HRDC, Goa University.

Dr. Kapil Salkar

Recorded 2 translated modules in Konkani for DISHTAVO UPYD107 on 19/10/2022 at HRDC, Goa University.

v. **NODAL ACHIEVEMENTS** (Prizes won, honours/scholarships received/competitive exams cracked)

i. **Students**

In case of individual events:

I. Nil

In case of group events:

I. NIL

II. **Faculty Members:**

Nil

vi. **RESEARCH**

i. **Faculty Members**

▪ **Papers Presented**

Dr. Ramu Murthy

Presented paper titled " Understanding the Structural and Optical characteristics in $\text{Sr}_{2x}\text{La}_{2-2x}\text{Li}_{2x}\text{Te}_{2-2x}\text{O}_6$ perovskites" at the 2nd International Conference & Exposition on Mechanical, Material and Manufacturing Technology on 28-29 October 2022 in Hybrid mode(Online/Offline) at Hyderabad.

Papers Published

NIL

▪ **Projects Undertaken**

Name of Principal Investigator: Dr Swati Pawar and Dr Miskil Naik,

Stature of Project: Major

Status: Ongoing

Title of the Project, “Design & Development of a Photovoltaic and Human Power Hybrid Energy System”

Funding Agency: DST Goa

Amount Received/Sanctioned: 3 lakhs,

Outcome/Expected Outcome (in brief): We have designed, developed and tested prototype of hybrid energy system which consists of solar power and human driven mechanical energy which is generated by exercise bicycle. This system is capable of generating 12v output which can be used to charge mobile, wi-fi device and rechargeable battery.

Webinars/Seminars/Conferences attended

Ms. Siddhi Parsekar

1. Attended the MoRD sponsored Training Programme on ‘Women’s Health and Menstrual Hygiene’ held from 11th to 15th October 2022 (5-days) organised by Goa Institute of Public and Rural Development (GIPARD) at GIPARD, Ella Farm, Old Goa.



▪ Any Other :

Dr. Miskil Naik

1. Organised mentorship week from 24th October to 31st October 2022 for the faculty and students of the college.
2. Miramar heritage trail was organised for the FYBSC students on 26th October 2022. Mr. Prajal Sakhardande accompanied students and shared valuable information about the history of Miramar.



- Organised talk on- 'Mentoring and Mental Well-being' as part of celebration of Mentorship Day on 27th October, 2022. The talk was attended by 91 BA students.



Ms. Siddhi Parsekar

Co-coordinated a session on Entrepreneurship organized by the Institution's Innovation Council of the college on 27th October 2022 in Swami Vivekanand Hall. The resource persons were Ms. Nandini Dessai and Ms. Vimi Salgaonkar.



- ii. **Students** (same format as above to be followed)
- **Papers Presented: NIL**
 - **Papers Published: NIL**
 - **Projects Undertaken (Not TY Projects): NIL**
 - **Any Other : NIL**

vii. **COLLABORATIONS AND LINKAGES (if any)**

- i. IL
NIL

SKILL DEVELOPMENT COURSES (all knowledge-based skill enhancement courses adding to the critical/creative/experiential thinking abilities of the learner) **(if any)**

Proposal with budget submitted

viii. **EXTENSION AND OUTREACH (Green activities not to be repeated)**
NIL

ix. **NODAL ACTIVITIES OF FACULTY MEMBERS**

i. **Prominent Positions held within the institution**

Mr. S.S. Burye: Co-ordinator of IGNOU study centre.

Dr. Swati Pawar: Appointed as **Vice Principal** on 15/10/2022, **HoD** Physics and AISHE Nodal Officer

ii. **Prominent Positions held outside the institution**

Dr. Miskil Naik

- EC Member Central IAPT.

- iii. **Consultancy/Research/Co-curricular services provided. NIL**
- iv. Invitations as Chief Guests, Judges, Resources Persons, Keynote Speakers et Deputations as Experts to other institutions/bodies as part of academic/administrative/co-curricular/research/extramural consultancy. : **NIL**

x. **ALUMNI ACHIEVEMENTS (if any)**

- Any landmark achievement of an alumnus/alumna in the last five years.
- Any distinguished alumnus/alumni to be mentioned.

Ms Michelle Rodrigues of 2017-18 batch is currently a research scholar in Quantum Solid State Physics at KU Leuven, Belgium and has published

two

papers in International Journals.

xi. **GENDER SENSITIZATION/EQUITY PROGRAMMES (if any)**

Any activity conducted towards achieving gender sensitization focussed on:

NIL

xii. **BEST PRACTICES (not featuring under any Header above):**

NIL
