

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

I. DEPARTMENTAL ACTIVITIES

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

II. E-CONTENT CREATION AND INNOVATIVE PEDAGOGICAL PRACTICES

NIL

- vi. 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

vii. RESEARCH

i. Faculty Members

- Papers Presented
- Papers Publish

- 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

▪ Any Other :

Dr. Miskil Naik

1. Judged the essay competition on Role of student making an effort to reduce energy consumption organised by Goa Science Centre on 7th December 2022 as a part of celebration of National Energy Conservation Day.
2. Appointed as external T.Y.B.Sc. Practical examiner from 28th November to 5th December 2022.

ii. Students (same format as above to be followed)

- **Papers Presented: NIL**
- **Papers Published: NIL**
- **Projects Undertaken (Not TY Projects): NIL**
- **Any Other : NIL**

viii. COLLABORATIONS AND LINKAGES (if any)

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

ix. EXTENSION AND OUTREACH (Green activities not to be repeated)

NIL

x. 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: Vice Principal, HoD Physics and AISHE Nodal Officer (**On Leave**)

Dr. Ramu Murthy: In-Charge, Department of Physics

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. :

Dr. Ramu Murthy : Invited as subject expert for interviews conducted by Goa Public Service Commission on 16th December 2022

xi. 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.

xii. GENDER SENSITIZATION/EQUITY PROGRAMMES (if any)

Any activity conducted towards achieving gender sensitization focussed on:
NIL

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

NIL
