

PARVATIBAI CHOWGULE COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

3.2.4 Average Percentage of Departments having Research projects funded by government and non government agencies during the last five years

| Sr.No | Department | No. of projects | | | | |
|-------|--|-----------------|----------|----------|----------|----------|
| | | 2020-21 | 2019-20 | 2018-19 | 2017-18 | 2016-17 |
| 1 | Geography | 6 | 4 | 2 | 3 | 1 |
| 2 | Zoology | 5 | 7 | 3 | 2 | 1 |
| 3 | Biotechnology | 1 | 3 | 2 | 1 | 0 |
| 4 | Computer Science | 3 | 1 | 2 | 0 | 0 |
| 5 | Botany | 2 | 4 | 1 | 1 | 0 |
| 6 | Chemistry | 2 | 1 | 1 | 3 | 0 |
| 7 | Physics | 2 | 2 | 0 | 0 | 0 |
| 8 | Biochemistry | 1 | 1 | 0 | 0 | 0 |
| 9 | Geology | 1 | 0 | 0 | 0 | 0 |
| 10 | Sociology | 0 | 1 | 1 | 1 | 0 |
| | Total Departments having Projects | 9 | 9 | 7 | 6 | 2 |

3.2.2 Teachers having research projects during the last five years

| Sr.No | Faculty Member | No. of projects | | | | | Department |
|-------|------------------------------|-----------------|---------|---------|---------|---------|------------------|
| | | 2020-21 | 2019-20 | 2018-19 | 2017-18 | 2016-17 | |
| 1 | Dr. Nandkumar N.Sawant | 6 | 4 | 2 | 2 | 0 | Geography |
| 2 | Dr. Nandini Vaz Fernandes | 5 | 5 | 3 | 2 | 1 | Zoology |
| 3 | Dr.Kanchana R | 1 | 1 | 1 | 0 | 0 | Biotechnology |
| 4 | Dr. Shaila Ghanti | 0 | 0 | 1 | 0 | 0 | Computer Science |
| 5 | Ms. Amish Pednekar | 1 | 2 | 0 | 0 | 0 | Botany |
| 6 | Dr. Sameena Falleiro | 1 | 1 | 1 | 0 | 0 | Computer Science |
| 7 | Dr. Sanjay S Gaikwad | 0 | 0 | 0 | 1 | 1 | Geography |
| 8 | Dr. Sandesh Bugde | 0 | 0 | 0 | 1 | 0 | Chemistry |
| 9 | Dr. Lactina Regina Gonsalves | 1 | 1 | 1 | 1 | 0 | Chemistry |
| 10 | Dr. Rohan K. Kunkalekar | 0 | 0 | 0 | 1 | 0 | Chemistry |
| 11 | Dr. Uma Masur | 1 | 1 | 1 | 1 | 0 | Botany |
| 12 | Dr. Sachin Moraes | 0 | 1 | 1 | 1 | 0 | Sociology |
| 13 | Dr. Purnima Singh | 0 | 1 | 1 | 1 | 0 | Biotechnology |
| 14 | Dr. Ananya Das | 1 | 1 | 0 | 0 | 0 | Physics |
| 15 | Mr. Yatin Desai | 1 | 1 | 0 | 0 | 0 | Physics |
| 16 | Dr. G K Naik | 1 | 0 | 0 | 0 | 0 | Chemistry |
| 17 | Ms. Magnolia Miranda | 1 | 0 | 0 | 0 | 0 | Geology |



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|----|--|-----------|-----------|----------|----------|----------|------------------|
| 18 | Mr. Castor Godinho | 1 | 0 | 0 | 0 | 0 | Computer Science |
| 19 | Mr. Wendam Gray | 1 | 0 | 0 | 0 | 0 | Computer Science |
| 20 | Ms. Madhu Balekai, | 0 | 1 | 0 | 0 | 0 | Zoology |
| 21 | Ms. Divyarani Revankar | 0 | 1 | 0 | 0 | 0 | Botany |
| 22 | Ms. Madhavi Motankar | 0 | 1 | 0 | 0 | 0 | Biotechnology |
| 23 | Dr. Aduja Naik | 1 | 1 | 0 | 0 | 0 | Biochemistry |
| 24 | Mr. Stephen Dias | 0 | 1 | 0 | 0 | 0 | Zoology |
| | No. of Teachers receiving grants per year | 12 | 11 | 9 | 9 | 2 | |

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CRITERION III- RESEARCH, CONSULTANCY AND EXTENSION ACTIVITIES

3.2.1 List of Teachers receiving projects / research grants

| Sl.no. | Name of the Principal Investigator/ Co Investigator (if applicable) | Name of the Funding agency | Type (Government /Non-Government) | Department of Principal Investigator/ Co Investigator | Year of Award | Funds provided (INR in lakhs) | Duration of the project (in days) | Title of The Project |
|--------|---|--------------------------------------|-----------------------------------|---|---------------|-------------------------------|-----------------------------------|--|
| 1 | Dr. Nandini Vaz Fernandes | DST-SERB | Government | Zoology | 2014-17 | 13,10,000.00 | 1095 | "Heavy metal bioaccumulation and genotoxicity studies of fishes exposed to mining effluents in Goa" |
| 2 | Dr. Sanjay S Gaikwad | UGC | Government | Geography | 2015-16 | 9,10,000.00 | 1095 | "Assessment of Carbon Stock and Carbon Sequestration Scenario through Land Use Change in the State of Goa" |
| 3 | Dr. Sandesh Bugde | Directorate of Higher Education, Goa | Government | Chemistry | 2017-18 | 3,20,000.00 | 1095 | Synthesis of Naturally Occurring Cyclobutanes Through [2+2] Cycloaddition Reaction. |
| 4 | Dr. Lactina Regina Gonsalves | Directorate of Higher Education, Goa | Government | Chemistry | 2017-20 | 3,10,000.00 | 1095 | "Development of Functionalised Nanoparticle oxides for Gas Sensing and other Potential Applications." |




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| 5 | Dr. Rohan K. Kunkalekar | Directorate of Higher Education, Goa | Government | Chemistry | 2017-18 | 3,60,000.00 | 1095 | "Synthesis of ZnO nanomaterials and its catalytic and antibacterial applications" |
| 6 | Dr. Uma Masur | Directorate of Higher Education, Goa | Government | Botany | 2017-18 | 3,50,000.00 | 1095 | "Molecular characterization of <i>Dysoxylum binectariferum</i> Hook.f. regenerated plants in vitro by RAPD, SSR and ISSR methods". |
| 7 | Dr. Sachin Moraes | ICSSR | Government | Sociology | 2017-18 | 2,50,000.00 | 1095 | Male International migration and the experience in rural Goa. |
| 8 | Prof. Nandkumar N. Sawant | ICSSR+ National Research Council of Thailand | Government | Geography | 2017-19 | 3,50,000.00 | 730 | "Effect of International Tourism Related Activities on the Socio-economic Life of the Adjoining Rural Hinterland: A Comparative Study of Goa (India) and Chonburi (Thailand) in the Globalised Era" |
| 9 | Dr. Purnima Singh | SERB | Government | | 2017-20 | 1,92,000.00 | 1095 | Studies on characterization of most promising substance of biotechnological interest from selected bacterial strains of Cryoconites & Permafrost. |
| 10 | Prof. Nandkumar Sawant & Dr. Nandini Vaz Fernandes | DBT, Ministry of Science & technology, Govt. of india | Government | Geography and Zoology | 2017-20 | 1,23,00,000.00 | 1095 | DBT Star College Scheme (06 depts) |
| 11 | Dr. Nandini Vaz Fernandes | Directorate of Higher Education, Goa | Government | Zoology | 2018-20 | 2,00,000.00 | 730 | Evaluation of effectiveness of methodologies used in conducting practicals of Biological sciences |
| 12 | Dr. Sameena Falleiro | Directorate of Higher Education, Goa | Government | Computer Science | 2018-20 | 2,00,000.00 | 730 | Teaching and Learning with ICT: Current status and future Directives with Reference to |



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| | | | | | | | | UG education in Goa |
| 13 | Dr. Nandini Vaz Fernandes | MSI & GSWA, Govt. of Goa | Government | Zoology | 2018-19 | 40,000.00 | 365 | Wetland Conservation: Approaches and Threats |
| 14 | Dr. Kanchana and Dr. Shaila | Goa DST | Government | Biotechnology and Computer Science | 2018-19 | 65,000.00 | 365 | Science Promotion Scheme-Science Day |
| 15 | Mr. Yatin Desai | Directorate of Higher Education, Goa | Government | Physics | 2019-2020 | 3,20,000.00 | 365 | Study of Zinc Oxide Composite Doped with Transition Metal Ions (Mn, Ni, Co, Fe) |
| 16 | Ms. Amish Pednekar | Directorate of Higher Education, Goa | Government | Botany | 2019-2020 | 3,00,000.00 | 365 | Understanding Cellulolytic Activity of Fungi isolated from litter of Coconut trees |
| 17 | Dr. Nandini Vaz Fernandes & Prof. Nandkumar Sawant | DST-MHRD-COESME | Government | Geography and Zoology | 2019-2020 | 1,94,200.00 | 730 | Training workshop, on Research Based Pedagogical Tools (RBPTs) for Undergraduate Science Teachers |
| 18 | Dr. Ananya Das | Directorate of Higher Education, Goa | Government | Physics | 2019-2020 | 4,30,000.00 | 730 | Study of Bose-Hubbard model using Real Space Renormalization Group method. |
| 19 | Prof. Nandkumar Sawant | ICSSR-INSPIRE | Government | Geography | 2019-2020 | 8,00,000.00 | 1095 | Revealing the (In)visible cultural landscape and Heritage : Amalgamation of Goa's Urban Transformation and Identity |
| 20 | Dr. G K Naik | Directorate of Higher Education, Goa | Government | Chemistry | 2019-2020 | 2,83,000.00 | 730 | Low Temperature Synthesis & Characterization of Nanosize Metal Chromites: An Industrial Catalyst" |
| 21 | Ms. Magnolia Miranda | Directorate of Higher Education, Goa | Government | Geology | 2019-2020 | 2,50,000.00 | 1095 | Study of Microstructures of the Canacona Granite |



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| 22 | Dr. Nandini Vaz Fernandes and Prof. Nandkumar Sawant | Goa Forest Department, Govt. of Goa | Government | Geography and Zoology | 2019-2020 | 291500.00 | 730 | Development of wildlife management plan for Bondla wildlife sanctuary |
| 23 | Dr. Nandini Vaz Fernandes, Prof. Nandkumar Sawant, Mr. Castor Godinho and Mr. Wendam Gray. | Goa Forest Department, Govt. of Goa | Government | Zoology, Geography, computer science | 2019-2020 | 100100.00 | 730 | Project on 'Wildlife Activity Management' APP development. |
| 24 | Dr. Nandini Vaz Fernandes & Stephen Dias | Directorate of Higher Education, Govt. of Goa. | Government | Zoology | 2019-2020 | 45000.00 | 365 | Science Promotion Scheme-'Wildlife Monitoring Technique' |
| 25 | Amisha Shirodkar Pednekar, Dr, Nandini Vaz Fernandes, Madhu Balekai, Divyarani Revankar | National Green Corps | Government | Zoology and Botany | 2019-2020 | 5000.00 | 365 | For organizing green initiatives on the campus and community for the academic year 2019-2020. |
| 26 | Kanchana R and Madhavi Motankar, | Department of Science and Technology Goa | Government | Biotechnology | 2019-2020 | 100000.00 | 365 | 'National Workshop on Scientoonics' on the theme of 'Clean India' |
| 27 | Dr. Aduja Naik | Directorate of Higher Education, Goa | Government | Biochemistry | 2019-2020 | 75000.00 | 365 | Science Promotion Scheme-'Entrepreneurial Opportunities in Fermentation Food Technology' |
| 28 | Prof. Nandkumar Sawant | INTERREG V of European Commission | European Commission | Geography | 2020-2021 | Reimbursement by EC as per the planned works | 1095 | International Research partner of INTERREG (PaTRIM-OI Research Program) |
| 29 | Dr. Kanchana and Dr. Aduja Naik | Directorate of Higher Education, Goa | Government | Biotechnology and Biochemistry | 2020-2021 | 75000.00 | 365 | Science Promotion Scheme-'Entrepreneurial Opportunities in Fermentation Food Technology' |


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