

List of Research Projects/ Consultancy Works

Number of Projects carried out, funding agency, Grant received

Sr. No.	Project Name	Members	Funding Agency	Grant received	Year
1	Design and development of DI-BIRD	Rahul Kundaikar, DikshayMairenkar Sagar Sakhardande Vardhan Kamat, Dr. Suraj Rane	Department of Science and Technology and Waste Management, Government of Goa	Rs. 1,40,000/-	2020-21

Consultancy works:

- Year 2019-20:
 1. Dr. K.G.Guptha, Inspection of distress Building, EE Electricity Dept, Patto- Panjim, 3.835 lakhs
 2. Dr. K.G.Guptha, Assessment of Structural Members, Member Secretary Kala Academy, Panjim, 0.944 lakhs
 3. Dr. Ganesh Hegade, Structural Audit of Building, Garrison Engineers, Panjim, 0.944 lakhs
 4. Dr. Dr.Govind R.Kunkolienker, Testing, Rs. 12,805/- Revenue Generated by testing and Consultancy at Civil dept.
Testing: 16.44 Lakhs
Consultancy: 16.06 Lakhs
Total: 32.5 Lakhs
- Year 2020-21: Generated 7 Lakhs as Revenue by Testing and Consultancy
- Year 2021-22 :
 - Generated almost **10Lakhs** as Revenue by Testing and Consultancy in spite of Pandemic in the year 2021
 - Vibration analysis for Times of India Building at New Delhi – **15 Lakhs** consultancy agreed, approved

- GEC has signed a MoU with Indian Plumbing Association, New Delhi at Goa on 09-07-2021. This MoU is about setting up a “**Centre of international plumbing Advancements and Practices**” at Goa college of Engineering Campus. The Laboratory is under PPP model and investment by IPA is about Rs. One Crore. GEC has agreed to spare land for set up of the said unit.

2. Publications (if any) out of research in last three years out of masters projects

SrNo	Name of the faculty/Student	Title	Name of the Journal/Conference/Event/Publisher	Year
1	Dr. K. G. Gupta, Shraddha Chakurkar	Cement as an Evolutionary Binding Material	HBRP Publication, Journal of Engineering Analysis and Design Volume 03 Issue 02 Year 2021	2021
2	Dr. K. G. Gupta, Yogita Gavade	Vitality of Temperature Control in grout mix along with control of Bleeding	ICJ	2021

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3	Dr. K. G. Guptha, Yogita Gavade, Er. T. Mohan	Performance of Cement Grouts and their Applications	Journal of Advanced Engineering Research, ISSN: 2393-8447, vol. 08, no. 01, pp. 08-14, 2021.	2021
4	Dr. K. G. Guptha, Yogita Gaude and Soniket Chorge	Hybrid Geopolymer Concrete- A Study	St. Martin's Engineering College, Secunderabad, Hyderabad, 2nd Prize in India's First National Level Online Innovation Competition	2021
5	Dr. Purnanand P.Savoikar, Agrawal, V	Optimization of binary and ternary concrete composed of flyash and ultra-fine slag using GRA	Advances in Concrete Construction , International Journal, TechnoPress	2021
6	Dr. Purnanand P.Savoikar, Agrawal, V	Sustainable use of Normaland Ultra-fine Fly ash in Mortar as Partial Replacement to Ordinary Portland Cement in Ternary Combinations	Materials Today Proceedings, International Journal	2021

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9	Dr. Purnanand P.Savoikar, Agrawal, V	Desirability function approach for optimization of flyash and ultra-fine fly ash/slag based ternary concrete	ICE Virtual Library, Magazine of Concrete Research (Under review)	2021
10	Smita Aldonkar	Parametric Study using FE Analysis of Cantilever Retaining wall with pressure relieving shelves	ICETE 2021, NITTE Karnataka, International Conference on Civil Engineering trends and challenges for sustainability	November 2021
11	Arti Velip, Nisha Naik, Yeshwant Prabhu Chodnekar	An Overview on Challenges in Investigation of Structural Performance of Masonry Heritage Buildings	Virtual International conference on emerging trends in Civil engineering	November 2021
12	Arti Velip, Nisha Naik, Yeshwant Prabhu Chodnekar	Evaluation of Masonry Modelling Elements	International Conference on recent trends & research in Engineering and Science	November 2021
13	Shirodkar, A., Rane, S.	Evaluation of Coordinate measuring machine using Gage Repeatability & Reproducibility	Journal of System Assurance Engineering and Management, Vol. 12, pp. 84-90	2021

SrNo	Name of the faculty/Student	Title	Name of the Journal/Conference/Event/Publisher	Year
14	Naik P. and Rane S.	Integrated Robust Design Methodology and Dual Response Surface Methodology Approach in Optimization of Powder Coating Process	Advances in Interdisciplinary Research in Engineering and Business Management, pp. 159-174, Springer Nature Singapore Pte. Ltd- Book Chapter	2021
15	Kamble S. and Rane S.	Reliability Analysis and Condition-Based Maintenance of Marine Engine	Advances in Mechanical Engineering in the Era of New Technologies, pp. 307-314, Siksha 'O' Anusandhan (Deemed to be University), India- Book Chapter	2020
16	Kumtekar R., Kamble S, Rane S	Integration of TPM, RCM, and CBM: A practical approach applied in Shipbuilding industry	System Assurances Modeling and Management. Academic Press, 2022, p. 389-401- Book Chapter	2022

SrNo	Name of the faculty/Student	Title	Name of the Journal/Conference/Event/Publisher	Year
17	Swapnil S. Sinari, Rajesh S. Prabhu Gaonkar	Selecting an effective security requirements engineering approach for reliable health-care software development using Vague TOPSIS	63rd National Convention of Indian Institution of Industrial Engineering (IIIE) and International Conference on Evolution of Industrial Engineering in Covid Era, Vadodara	4-5 December 2021
18	Swapnil S. Sinari, Rajesh S. Prabhu Gaonkar	Handling multi-criteria decision making problems using vague set theory	ICAMESM 2020: Virtual International Conference on Advances In Mechanical Engineering Sciences & Management, Bangalore	7-9 December 2020
19	Pradip Parab and Shirodkar V. A.	Value Stream Mapping: a case study of lock industry	International Conference on Role on Advances in Mechanical Engineering and Nanotechnology (ICAMEN 2019), Manipal University, Jaipur	8-9 March 2019.
20	Naik S. and Rane S.	Firefly based optimization of multi-stage facility layout in assembly shop	Proceeding of International Conference on Industrial Engineering (ICIE 2019), SVNIT, Surat, December 12-14, pp. 537-541	2019

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21	Naik A., Dhawalikar M.	Isolating stochastic component of energy demand of pharmaceutical industry	5th International Conference on Emerging Trends in Mechanical and Industrial Engineering (ICETMIE – 2022).	2022
22	Priolkar A., Sakhardande M	Barriers in Implementation of Green Supply Chain in Micro, Small Enterprise Sector	ICAME 2019, Jyoti Engineering College, Thrissur, India	April 2019
23	Kamath D., Sakhardande M.	Ranking of factors Affecting Facility Location Using Fuzzy AHP	ICMMAAC-21, JECRC University, Jaipur, India	August 2021
24	Sudarshini S., Sakhardande M.	Neutrosophic set theory in MCDM: A review	63rd National Convention of Indian Institution of Industrial Engineering, Baroda	December 2021
25	Maheshkumar N, Shridhar M	Application of particle swarm optimization in vehicle routing problem	IECSTM 2020: Engineering Science, Technology and Management, Greater Noida, India	28th June 2020

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26	Amardeep G, Shridhar M, Leonard G	Improving production scheduling to increase throughput in toothbrush industry	RCOEM 2021: Smart Strategies for Self-Reliant Economy- An Industrial Engineering Perspective, Nagpur, India	8-9 October 2021
27	Ashray D, Shridhar M, Shrinivas N.	Study on effect of supply chain performance in toothbrush industry	RCOEM 2021: Smart Strategies for Self-Reliant Economy- An Industrial Engineering Perspective, Nagpur, India	8-9 October 2021
28	Anuja Pinge, Manisha Naik Gaonkar	Understanding action recognition in depth: A survey	International Journal of Information and Computing Science, IJICS Journal volume 8, Issue 8	August 2020
29	Anuja Pinge, Manisha Naik Gaonkar	A novel video retrieval method based on object detection using Deep learning	4 th International conference on computational vision and Bio-inspired computing (ICCVBIC-2020), by RVS Technical campus, Coimbatore India	November 2020
30	Saumya Matkar, Nagraj Vernekar	Comparative Study of IoT Protocols and Classification of Cloud Platforms	International Journal of Computer Science and Mobile Computing	December 2020

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31	Pawan Toraskar, Nagraj Vernekar	Survey On Prediction Of Diabetes Using Classification Algorithms	Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056,p-ISSN: 2395-0072	December 2020
32	Narayan Rajyadhyax, Nagraj Vernekar	Remote Auto update of containerized application in edge computing environment	Infocomp journal of computer science	July 2021
33	Yogini Lamgaonkar, Melina Afonso	A literature Review of Cryptography on RC4 Stream and Hasd LSB Steganography	International Journal for Research i n Engineering Application & Management, Volume 06,Issue 01	April 2021
34	Yogini Lamgaonkar, Melina Afonso	Blending of Cryptography and HLSB Steganography Techniques for Digital Images	International Conference on Advacned Computing & Communication Systems	March 2021
35	Needhi Gaonkar, Melina Afonso	Road Traffic Analyzer Using Computer Vision	International Journal for Research in applied Science & Engineering Technology, Volume 9,Issue VIII	August 2021

SrNo	Name of the faculty/Student	Title	Name of the Journal/Conference/Event/Publisher	Year
36	Ashok Deulkar, Dr. J. A. Laxminarayana	A Survey of Breast Cancer prediction using Machine Learning Techniques	International Journal of Information and Computing Science	November 2020
37	Ashok Deulkar, Dr. J. A. Laxminarayana	Breast Cancer Prediction using Machine Learning Techniques	Journal of Emerging Technologies and Innovative Research	November 2020
38	Sneha Narvekar, Dr. J. A. Laxminarayana	Approaches to Gender Classifications: A Survey	International Journal of Computer Science and Mobile Computing	August 2020
39	Mayuri Chari, Dr. J. A. Laxminarayana	A Lemma Oriented Stemmer for Konkani Language using FST	Transaction on Asian and Low Resource Language Information Processing	September 2021
40	Ankita Jaiswal, Dr. Aisha Fernandes	Load Balancing Algorithms for Cloud Computing Environment,	Journal of Emerging Technologies and Innovative Research.	May-20

SrNo	Name of the faculty/Student	Title	Name of the Journal/Conference/Event/Publisher	Year
41	Pranita Dessai, Prof. Siddhi Naik	Study of different approaches for detection of Diabetic Retinopathy in retinal images	Journal of Emerging Technologies and Innovative Research.	
42	Ruchi Ghantkar, Dr. Nilesh B. Fal Dessai	APPROACHES TO PHISHING ATTACK DETECTION USING NATURAL LANGUAGE PROCESSING: A SURVEY	Indian Academy of Sciences	Jul-20
43	Sanjeet Kanekar, Prof. Nadine Dias	A COMPARATIVE STUDY AND ANALYSIS OF DIFFERENT CARPOOL MODELS, A COMPARATIVE STUDY AND ANALYSIS OF DIFFERENT CARPOOL MODELS	Journal of Emerging Technologies and Innovative Research.	Mar-20

SrNo	Name of the faculty/Student	Title	Name of the Journal/Conference/Event/Publisher	Year
44	Sanjeet Kanekar, Prof. Deepali Raikar	Haze Mitigation and Visibility Restoration in Foggy Conditions for Vehicles.Research	Notes on Computing and Communication Sciences APPLE ACADEMIC PRESS.	Jun-20
45	Mr. Reuben Pinto, Dr. Aisha Fernadnes	IoT based Quick Retail Checkout using Machine Learning and RFID Technology	Journal of Emerging Technologies and Innovative Research.	August 21
46	Ms. Resha Govekar, Prof. Vaishali Shirodkar	Summarization of Surveillance Videos Based on Objects Detected	International Research Journal of Engineering and Technology (IRJET)	August 21
47	Mr. Sarvadnya Navti, Dr. Nilesh B. Fal Dessai	Quantitative Analysis of different algorithms for Stock Price Prediction	International Research journal of Engineering and Technology (IRJET)	Aug-21
48	Ms. Najiya Naj, Prof. Amogh Sanzgiri	An IoT Based Real Time monitoring of water quality system in aquaculture	2nd International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2021.	July-2021

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49	Ms. Harsha Dessai, Prof. Siddhi Naik	Weather Forecasting Using Data Mining	International Research Journal Of Engineering and Technology	August 2021
50	Ms.Gayaksha Kandolkar, Prof. Soniya Usgaonkar	Comparative Analysis of Various Machine Learning Techniques for Detecting Malicious Webpages	International Journal of Engineering Research & Technology	July 2021
51	Joanna Mota, Ms. Mascarenhas Maruska	A review on Different Methods of Image Segmentation	International Journal of Creative Research Thoughts, Volume 8, Issue 7 www.ijcrt.com	July 2020
52	Gaurav Chide, Ms. Mascarenhas Maruska	A novel Approach for Lung Nodule Classification in Lung CT Images using Convolution Neural Network (CNN)	International Journal of Information and Computing Science, An ISO : 7021-2008 Certified Journal, Volume 7, Issue 9,. www.ijics.com	Sept 2020

SrNo	Name of the faculty/Student	Title	Name of the Journal/Conference/Event/Publisher	Year
53	Gaurav Chide, Ms. Mascarenhas Maruska	Lung Extraction Techniques for Lung CT Images	2. International Journal of Information and Computing Science, An ISO :7021-2008 Certified Journal, Volume 7, Issue 10. www.ijics.com	Oct 2020
54	Shubham P.Borkar, Ms. Mascarenhas Maruska	Trends in Traffic Sign Classification: A Survey	International Journal of Information and Computing Science, An ISO : 7021-2008 Certified Journal, Volume 7, Issue 7. www.ijics.com	July 2021
55	Shubham P.Borkar, Ms. Mascarenhas Maruska	An Optimal CNN Model for Traffic Sign classification Using Augmented Dataset	International Journal of Information and Computing Science, An ISO :7021-2008 Certified Journal, Volume 7, Issue 9. www.ijics.com	Sept 2021

3. Industry linkage

Goa College of Engineering is very active in interacting with industries which benefited both the stakeholders immensely. Some of the initiatives to strengthen industry institute interactions are MoUs with industries, Industrial visits, Internships, Industrial projects, expert talks by persons from industry, offering post graduate degree by working professionals, industry members in board of governing body and industry member in curriculum revision. The institute regularly participates in AICTE CII Survey.

4. MOUs with industries

Sr. No.	Department	Name of the Company
1	CIVIL Engineering	UltraTech Cements, Goa Region
2		Prism Johnson Limited, Goa region
3		MVR Infra-projects Pvt. Ltd, DonaPaula, Goa
4		UCJ Architect and Environment
5		MadhavKamat Associates
6		Edcon Real Estate Developers
7		Vijaykumarsawant associates
8		AILLP- Goa
9		ShirishKamat Associates
10		National Highway Authority of India (NHAI)
11		Water Resource Department (WRD)
12		Indian Plumbing Association (IPA)

Sr. No.	Department	Name of the Company
13	Mechanical Engineering	Deccan Fine Chemicals (India) Pvt. Ltd.
14		M/S Aerocoach
15		RUTUTEK
16		Astra Metal Systems Ltd.
17		Dhavalikar Automobiles
18		QuEST GLOBAL ENGINEERING SERVICES PVT.LTD.
19	Electrical and Electronics Engineering	M/s Lift Controls pvt. ltd.
20		M/s Goa Electric Company
21		M/s Ohm Engineers and Electricals pvt. ltd.
22		M/s ICS Engineers
23		M/s Protean Knowledge Solutions
24	Electronics and Telecommunication Engineering	EME Automation
25		Autotech Technologies
26		ThoughtSlate IT Services
27		Qubiseed Technologies LLP

Sr. No.	Department	Name of the Company
28		Mring Technologies LLP
29		CISR-National Institute of Oceanography, Dona Paula,Goa
30		Klenzaid's Contamination Controls Pvt LTD. First European Infotech India LTD.
31		Goa Electronics Limited
32	Computer Engineering	Creative Capsule Infotech
33		Helix Tech Pvt. Ltd
34		Digital Dwarves Pvt. Ltd.
35		Global Energy Pvt. Ltd.
36		Androcid Media Pvt. Ltd.
37	Information technology	Freethink LLP
38		Goenche Apps and Sites Private Limited
39		Fabcoders Retail Software Private Limited
40		Earnestek
41		SparkPlus Technologies

Sr. No.	Department	Name of the Company
42		Umang Software Technologies
43		Persistent Systems Limited
44		United Telecom Limited