



P.E.S. COLLEGE OF ENGINEERING, MANDYA

(An Autonomous Institution affiliated to V.T.U. Belagavi, Aided by Govt. of Karnataka)
(Approved by AICTE, Accredited by NBA (UG Programmes) and NAAC, New Delhi))

Consultancy Services: The PESCE Consultancy Services are taken care by Civil department. The following Services are:

Geotechnical Engineering Laboratory- The following tests are conducted to evaluate the properties of soil by collecting disturbed and undisturbed samples.

Sieve analysis, In-situ density by core cutter method, Consistency limits, Compaction test, Tri- axial compression test, direct shear test, unconfined compressive strength test, California Bearing ratio test.

Concrete and Highway material testing laboratory- The following tests are conducted to evaluate the properties of Cement, Aggregate and Bitumen.

Fineness of cement, Initial and Final setting time, Strength test(Cement mortar cube and cement concrete cube), Sieve analysis of aggregates, Abrasion test, Shape test, Specific gravity and water absorption

Basic Materials testing laboratory- The following tests are conducted to evaluate the properties of Bricks and Steel.

Water Absorption of brick, Compressive strength test of brick, Weighment test of steel, Tension test of steel, Bend and re-bend test

Environmental Engineering Laboratory- The following tests are conducted to evaluate the quality of drinking water and sewage water.

pH, Turbidity, Color, Taste and odor, Conductivity, Total dissolved solids, Total hardness, Calcium hardness, Magnesium hardness, Alkalinity, Chloride, Fluoride, Nitrate, Iron, Sulphate, E-coli.

Stability and strength evaluation of buildings by Non-destructive testing methods (NDT)

Research Project Funds: The PESCE Research project funds are utilize to design and build projects, skill development Centre for conducting workshops for students faculty and industry people

Alumni Funds: The PESCE Alumni funds are utilized for college developmental activities and students activities.



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Revenue generated from consultancy and corporate training during the year (INR in lakhs) & 3.5.2 Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year:

Revenue generated from consultancy during the year

Names of the teacher-consultants	Name of the consultancy project	Consulting/Sponsoring agency with contact details	Revenue generated (INR in lakhs)
Ashwini B, Divya P, Sushma H P, Niveditha M P	STEEL TESTING	BLS CONSTRUCTION MADDUR (THE AEE PWD NO.2 SUB DIVISION MADDUR)	10384
		AEE,KUWSB &DB CHAMARAJNAGAR	4720
		AEE RDPR PROJECT SUB DIVISION K R PETE	18880
		AEE,PROJECT SUB DIVISION MANDYA	3776
		AEE,PWD & SUB DIVISION -2 MADDUR-MAHENDRA	5664
		SAGAR H V HONAGALLI MATA MANDYA	1888
		AEE,NO 3 V C S D PANDAVAPURA	7803
		AEE,KHB,SUB DIVISION MANDYA	3776
		LASA CONSTRUCTIONS,KYATHANAGERE MANDYA	708
		AEE HOUSING BOARD DEPT MANDYA	3068
		TOTAL	60667
M Divyashree	STEEL STRUCTURAL DESIGN	PDO INDAVALU	30400
M Divyashree	TRUSS DESIGN	AEE PANCHAYATH RAJ ENGIBNEERNG SUB DIVISION MANDYA	5900



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S Naveen Kumar	DESIGN	AEE,PWD SUB DIVISION MALLAVALLI	11800
		TOTAL	48100
Naveen kumar S Shyam Prasad H Chethana C P Shivaraj G Nayak Sushma H S Abhishek G B	THIRED PARTY INSPECTION	SHREE SHAMBHULINGESHWARA EDUCATION TRUST YEREGOWDANAHALLY PANDAVPURA	7080
		SRI VIDHYA GANAPATHI EDUCATION SOCIETY KOTHATHI	4720
		PRINCIPAL ANIKETHANA PU COLLEGE MANDYA	4720
		SAROVARA INTERNATIONAL PUBLIC SCHOOL	4720
		ADARSHA HIGH SCHOOL MALLVALLI	17700
		HEAD MASTER,VIVEKANANDA HIGH SCHOOL & PU COLLEGE,PANAVAPURA	17700
		CHAIRMAN INDIAN RED CROSS SOCIETY MANDYA	2360
		ADMINISTARTIVE OFFICER MADDUR	23600
		SRI BASAWESHWARA EDUCTION TRUST	5900
		HEAD MASTER SRI VINAYAKA GRAMANTHARA NAGAMANGALA	5900
		JNANA BHANDHU EDUCATION T DEVEGOWDA KOPPALU PANDAVAPURA	11800
		SUGENA INTERNATIONAL PUBLIC SCHHOL Mandya	5900
		MANAGER GULABI VIDYANIKETHANA SCHOOL ,	23600
		AEE RURAL DRINKING WATER SUPPLY & SANITATION SD MANDYA	2360
PRINCIPAL ,DISTRICT TRAINING CENTER MANDYA	14160		



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		TOTAL	152220
Dr. Jayashankar Babu Naveen Kumar s Shivaraj G Nayak Shambhavi S Rashmi M P Dr. S Poorna Prajna Divyashree M Niveditha M P Lakshmi P S Chethana C P Archana P ShyamPrasad H R Kavya S B Sharadhi A Sushma H Divya P	MATERIAL TESTING (CEMENT, CUBES AND AGGREGATES)	MURTHY CONSTRUCTIONS NSL SUGARS KOPPA	4248
		N S L SUGARSLTD	100418
		VIWIDAS INFRA MANDYA	3540
		RAMCO CEMENT LTD	4956
		AEE,CNNL,NO1 Sub division Koppa, Mandya	47200
		KASETTY TECH SOLUTIONS ASHOK NAGAR, MANDYA	4248
		PROJECT MANAGER NIRMITHI KENDRA,MANDYA	5664
		AEE SUB DIVISION SATHNUR FORM MANDYA	5664
		AEE NO.3 CADA SUB DIVISION KJY SATHNUR FORM MANDYA	7080
		AEE,KUWS & DP Sub division ,Chamarajanagar	2124
		MANGALA MURTHY CONSTRUCTION NSL SUGARS ,MANDYA	7080
		AEE,HOUSING BOARD DEPT MANDYA	14160
		ASST. EXECUTIVE ENGINEER, K H B SUB DIVISION MANDYA	10620
		S R RAVI CONSTRUCTION K S P H C MANDYA	1416
		S D BUILDCON INFRA PVT LTD	1416
AEE KUWS DB SDCR NAGARA	7080		



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		KVRL Construction,KM Doddi	708
		Rama Stone Crusher Ganangur,Mandya	708
		JYOTHI ENGINEERS	708
		ARVIND SHIVASHYLA BRICKS MANDYA	2124
		Yankee Construction LLP ,Bangalore	4956
		PRINCIPAL ABHINAVA BHARATHI COLLEGE MANDYA	708
		SRI ADICHUNCHANAGIRI MAHA SAMSTHANA MATA MANDYA	708
		M/S CIVET PROJECTS PVT LTD	12390
		ARYAN CONSTRUCTIONS NSL SUGARS KOPPA	11328
		LASA CONSTRUCTIONS,SANJO NURSING HOME MANDYA	1416
		CVK CONSTRUCTIONS PVT LTD CHAMARAJANAGAR	708
		THIRUMALA CONSTRUCTION CHENNAI	708
		AEE KARANTAKA URBAN WATER SUPPLY & DRAINAGE BOARD MANDYA	3540
		TOTAL	267624
K Narasimha Murthy Madhusudan M H C Chowde Gowda	WATER TEST	ORG TREE SY,NO # 180/4 THENKAHALLY (V) SIRAMANAHALLY MANDYA	1770
		COMMISSIONER CMC MANDYA	16284
		Srinivas R S/O Late Ramu, Channegowdanadoddi, Maddur	1416



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		P Jayaraju, 8th cross, V V Nagar, Mandya	1416
		M/S M.N. Ramesh Engineers & Contractors, Tumukur	14160
		AEE, KUWS & DB SD, MYSORE	3540
		Prof.Venkatagirigowda,Vidya samstha, Byrapatna,Chnnapatna Tq	1770
		Dr. H C SRINIVAS SURABI HOSPITAL ,MANDYA	14160
		CHIEF OFFICER, TMC PANDAVAPURA	2124
		Dr. H C ANAND MAMATH NURSING HOME	3540
		PUTTASWAMYGOWDA,GANDHINAGAR MANDYA	1416
		PODAR INTERNATIONAL SCHOOL MANDYA	1770
		DISTRICT CONTROLLER KSRTC MANDYA	1770
		AEE, KUWS & DB SD, Channapatna,R R SERVICE BHUDRAVALHI	10620
		R R SERVICES BHADRANATH AEE KUWS & DB SUB CHANNAPATNA	22656
		SURAKSHA NURSING HOME HALAHLI MANDYA	1770
		MAHESH H M MANDYA	1416
		SRI ANNAPOORNESHWARI SERA TRUST PANDAVAPURA	1416
		PRINCIPAL CAUVERY PUBLIC SCHOOL RAGINDDENAHALLI MANDYA	1770
		GOVIND RAJU KOTE CHANNAPATNA RAMANAGAR	1770



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		PROJECT MANAGER NIRIMITH KENDRA MANDYA	1770
		SHIVAKUMAR KIRAGANDUR MANDYA	1416
		H THIMMEGOWDA SRIRANGAPATNA	1416
		AEE,KUWSB & DB SUB DIVISION (D &M)	5310
		SECRATORY SHIVALLI MILK PRODUCER CO OPEARTER SOCIETY	1770
		K RAMALINGEGOWDA MANDYA	1416
		KARIGOWDA S/O LATE KARIGOWDA HALLEGER	1416
		YOGESH T G S/O LATE JAMMEGOWDA THUBINKERE MANDYA	1770
		ARCHANA HOSPITAL MANDYA	1770
		TOTAL	124608
KAVYA S B SANTHOSH KUMAR C V	SOIL TESTING	DR.YOGENDRA PRASAD,MANDYA	5900
		MR.PANCHALINGAIAH,PTD,KERAGODU,MANDYA	2950
		SMT.A.LATHA,KHB,MANDYA	2950
		AEE,RDPR, K R PET	5782
		DEEPAK M S,ASHOK NAGAR,MANDYA	5900
		K S PRAKASH S/O SIDDEGOWDA,MANDYA	5900
		MANIKANTASWAMY KYATANGERE MANDYA	2950



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		CIVET PROJECTS PVT LTD	8850
		PRN CONTRACTORS	11800
		EX OFFICE SECRETARY & ASST AGRICULTURE S R PATNA	5900
		AEE KRIDL MANDYA	11800
		ASST EXECUTIVE ENGINEER, MINOR IRRIGATION MANDYA	5900
		SRI SWETHAMBAR TERAPANTHA SAMUDAYA BHAVABA TRUST (r)	5900
		AEE MINOR IRRIGATION DEPT K R PETE BOOKANAKERE	5900
		MAHESH H P MANDYA	8850
		AEE NO.3 CADA SD KIY SATHNUR FORM MANDYA	15576
		B N RAJESH #132 SHIVASKANDA RESIDENCE KENDER BANGALORE	8850
		C S SATHISH MYSORE	3304
		AEE NO.3 KADA SUB DIVISION SATHNUR FORM MANDYA	13662
		LINGRAJU OFFICER OURASABHE MADDUR	8850
		RUDRASWAMY #709 V.V NAGAR 16TH CROSS KALLHALLI MANDYA	29500
		AEE CAUVERY NIRAVARI NIGAMA NIYAMITHA	29500
		MANAGING DIRECTOR MANMUL GEJLAGERE MADDUR MANDYA	72650
		AEE KARNATAKA URBAN WATER SUPPLY & DRAINAGE BOARD MANDYA	708



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		DEVELOPMENT RURAL & URBAN INSTITUTE IN MANDYA	5900
		TOTAL	285732
Govt. of Karnataka	Biofuel Research Information and Demonstration Centre (BRIDC), PES College of Engineering, Mandya		5,25,607
		TOTAL	5,25,607
D M Srinivasa, H C Manohara	Ganga Kalyana Yojane Ganga Kalyana Yojane 2023		39847
B N Harish	Supply, Install & Comm. Of 60mm, 35mm, 4mm, 3 stage screener with hopper and conveyor system		193047
B N Harish	Portable emergency lighting system		9676
D M Srinivasa	5kVA, 13 UPS along with Batteries		5900
		TOTAL	2,48,470
Dr. Srinivasa.M.R., Assistant professor	Town Municipal Council, Krishna Raja Pet, Mandya		13216-00
Dr. Srinivasa.M.R., Assistant professor	City Municipal Council, MANDY A, Mandya District		8816-00
Dr. Srinivasa.M.R., Assistant professor	City Municipal Council, MANDY A, Mandya District		69876-00



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Dr. Srinivasa.M.R., Assistant professor and Dr.gurupavan.H R Assistant professor	Town Municipal Council, Krishna Raja Pet, Mandya		19022-00
Dr. Srinivasa.M.R., Assistant professor and Dr.gurupavan.H R Assistant professor	TMC, Belluru Nagarnangala Taluk. Mandya District		42698-00
		TOTAL	90,739

Details of grants received from Government and Non-governmental agencies for research projects, endowments, Chairs in the institution during the year (INR in lakhs), 3.2.2 Details of teachers having research projects during the year & 3.2.4 Details of Departments having research projects funded by Government and/or Non-government agencies during the year

Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Type (Government/Non-Government)	Funds provided (INR in lakhs)	Month and Year of receiving the grant	Duration of the Project
Dr. Madhusudana C.K	Mechanical Engineering	VTU-Research Grants	Government	1000000	18-02-2022	Two years
Dr.Sadashiva M	Mechanical Engineering	AICTE, RPS	Government	1641937	2021-22	Three years
Dr. Alure Gowda	MBA	AICTE Project under RPS	Government	200000	2022	Two years
Dr. Vinay .S	Computer Science and Engineering	KITS-NAIN	Government	12000000	2022	Three years
Dr Ghanraj	Mechanical Engineering	VGST	Government	1000000	2021	Two years

15841937

Design Application Details

Application Number:

362873-001

Cbr Number:

200806

Cbr Date:

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Applicant Name:

1. Mr. Siddesh Kumar N M
2. PES College of Engineering
3. Dr. Vinay S
4. Dr. Rudreshi Addamani
5. Mr. Ramesh Kurbet
6. Mr. Chinnegowda H S
7. Mr. Chandan M
8. Miss. Lakshmi H P
9. Miss. Pallavi H C
10. Miss. Ankitha H R
11. Mr. Bheemkumar Haloor
12. Miss. Bhoomika H L

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 40/2022 and Journal Date is 07/10/2022

[Back \(/DesignApplicationStatus/\)](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign.ipo@nic.in

Controller General of Patents, Designs and Trademarks

Design Application Details

Application Number:

362874-001

Cbr Number:

200806

Cbr Date:

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5. Mr. Avinash M
6. Dr. H R Lakshmi Narasimha Murthy
7. Mr. Charan H S
8. Mr. Suraj R
9. Miss. Rakshitha M N
10. Miss. Monika Raj M R
11. Mr. Dheeraj N U
12. Miss. Anvika

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 39/2022 and Journal Date is 30/09/2022

[Back \(/DesignApplicationStatus/\)](/DesignApplicationStatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign.ipo@nic.in

Controller General of Patents, Designs and Trademarks

1. AU2021102713 - FULLY AUTONOMOUS SMART MANUFACTURING UNIT USING INTELLIGENT FEATURE RECOGNITION ALGORITHM



National Biblio. Data Description Claims Drawings Documents

PermaLink Machine translation

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CPC

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G05B 19/0426

G05B 19/4185

G05B 19/4187

G05B 23/0254

G05B 23/0294

[View more classifications](#)

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Mehar, Afroz

Title

[EN] Fully autonomous smart manufacturing unit using Intelligent Feature Recognition Algorithm

FULLY AUTONOMOUS SMART MANUFACTURING UNIT USING INTELLIGENT FEATURE RECOGNITION ALGORITHM

Diagram:

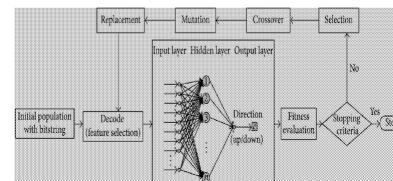


Figure 1: Feature Selection Model Using Genetic Algorithm and Artificial Neural Network

Abstract

[EN] Smart Manufacturing applies to optimization methods used by advanced analytics of development processes. As Industrial Internet of Things (IIoT) sensors are used in production processes, optimum and reliable approaches to data processing are becoming increasingly necessary. Engagement with machine learning and artificial intelligence will contribute to practical and insightful automation to take advantage of production data. In this invention, we perform a thorough focused on evolutionary computing and profound learning algorithms to make semiconductors manufacturing in smart. We propose a dynamic algorithm that provides valuable insights into semiconductor processes and addresses several challenges. We are developing an Intelligent Feature Recognition Algorithm using a Genetic Algorithm and the Neural Network. The aim is to offer a state-of-the-art solution to control production processes and gain insight into various dimensions that allow manufacturers access to successful technology prediction. FULLY AUTONOMOUS SMART MANUFACTURING UNIT USING INTELLIGENT FEATURE RECOGNITION ALGORITHM
Diagram: Figure 1: Feature Selection Model Using Genetic Algorithm and Artificial Neural Network

S, Rajesh A
Saravanan, D.
Swamy, Amit

Agents

IP, Senan

