DEPARTMENT OF CIVIL ENGINEERING

PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

Approved by AICTE, Permanently Affilated to JNTU Kakinada & Accredited by NAAC with "A" Grade

1-378, adb road, Surampalem, Near Kakinada, East Godavari District, Andhra pradesh

India - 533437

BIANNUAL NEWSLETTER

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CIVIL FALL BROADCAST

ABOUT THE COLLEGE:

PRAGATI ENGINEERING COLLEGE (Autonomous) is established in the year 2001, by M/S Gayatri Educational Society in Surampalem, E. G. Dist, A.P. The Institution is accredited by NAAC with 'A' grade in the year 2015 and attained the Autonomous status in the year 2016. Pragati has been graded as gold in the AICTE Survey of Industries linked technical institutions-2016.

It is rated 'A' grade by knowledge mission, Government of India. Pragati has been designated as Center of Excellence [Knowledge Exchange Center] by M/S Infosys Ltd. College attained for AAA rating for the year 2020 by Careers 360 and has been ranked one among the top 10 colleges in A.P. by Silicon India. Three Departments of ME, CSE and ECE are recognized as Research Centre. The institution stood 21st Position and also considered as active local chapter by SWAYAM-NPTEL.

PRAGATI ENGINEERING COLLEGE focuses on imparting skills on cutting –edge technologies and shaping the students into disciplined young citizens of good character and lays emphasis on practical experience so as to enable them to secure employment in industry thereby to become entrepreneurs. The courses are so structured which leads to a linear growth and progressive insight into the engineering subjects as well as training in soft skills. Since inception in 2001, in its quest to offer quality education, our college has become a temple of knowledge and produced hundreds of eminent and skill full graduate engineers, who are successful in their careers, serving all over the world.

VISION OF THE INSTITUTE

To emerge as a Premier Institution for Technical Education in the Country through Academic Excellence and to be recognized as a Centre for Excellence in Research & Development, catering to the needs of our Country.

MISSION OF THE INSTITUTE

To realize a strong Institution by consistently maintaining State-of-art infrastructure and building a cohesive, World Class Team and provide need based Technical Education, Research and Development through enhanced Industry Interaction.

ABOUT THE DEPARTMENT:

The Department of Civil Engineering is truly a source of motivation for all initiating various academic and training activities. Established in the year 2012 and it strives to impart outcome based Engineering Education. It offers undergraduate program with an intake of 60.

The department has well qualified, experienced and dedicated faculty in different streams. The department has good infrastructure with the following laboratories.

1. Surveying lab,
2. Engineering graphics lab,
3. Strength of materials lab,
4. STAAD & CAD lab,
5. Fluid mechanics and Hydraulics machines lab,
6. Engineering Geology lab,
7. Concrete Technology lab,
8. Transportation Engineering lab,
9. Geotechnical Engineering Lab,
10. Environmental Engineering lab.

All the labs are well equipped to cater the present day needs. Department has an active student memberships society of Association of Consulting Civil Engineers ACCE(I) and Institution of Engineers (India)IEI, and also students are actively doing Industry 4.0 Clubs activities like Green building and other clubs like Water Management, Greenery, Waste Management, Energy Management, Sanitation and Hygiene to develop the skills. It also provides support to the students in executing quality projects.

The civil engineering department has a wide range of equipment, including [list some of the available equipment]. With this equipment, we can provide expert consulting services to clients in the public and private sectors. Our services could include structural and geotechnical engineering, construction management, environmental engineering, and other related fields.

VISION OF THE DEPARTMENT

Impart ethical technical knowledge of global standards in the field of Civil Engineering in order to meet new challenges in Professional and Research Environment.

MISSION OF THE DEPARTMENT

- To train professionals in the field of Civil Engineering, who can contribute to the Industry, Research & Development and also shoulder the social responsibility.
- To provide state of art resources that contributes to congenial learning environment.
- To encourage faculty and students to pursue higher education and various career enhancing courses.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

PEO1: Graduates will excel as successful Civil Engineers, Academicians and Researchers.

PEO2: Graduates of the programme will continue to engage in lifelong learning, possess good communication skills, managerial skills, team work and social responsibility while exhibiting ethical attitude.

PEO3: Graduates of the programme will explore and apply the modern Engineering tools for Planning and Designing of various Civil Engineering projects that are technically and economically viable.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Students will be able to Plan, Survey, Estimate and Execute various Civil Engineering Projects.

PSO2: Students will be able to Design Sub-Structure, Super-Structure and Pavements.

PSO3: Students will be able to apply the techniques for design of various Water front structures and solving the various Environmental issues.

LIST OF FACULTY MEMBERS

S.NO	*Name of the Faculty*	*Qualification*	*Designation*
1	Dr. K SAROJA RANI	Ph.D	HOD &Associate Professor
2	Dr.M SRI LAKSHMI	Ph.D	Assistant Professor
3	V TANUJA	M.Tech	Assistant Professor
4	A LAKSHMI PRASANNA	M.Tech	Assistant Professor
5	V SAI GIRIDHAR REDDY	M.Tech	Assistant Professor
6	M MEGHANADH	M.Tech	Assistant Professor
7	N RAGHAVENDRA	M.Tech	Assistant Professor
8	D.V.DURGA PRASAD	M.Tech	Assistant Professor
9	B. HARISH	M.Tech	Assistant Professor
10	K SUDEEPA	M.Tech	Assistant Professor
11	L.PRAVEEN KUMAR	M.Tech	Assistant Professor
12	B. SRI DATTA SUBHRAMANYAM	M.Tech	Assistant Professor
13	A. KALYAN	M.Tech	Assistant Professor
14	A. GANGA NAGINI	M.Tech	Assistant Professor
15	P. JAGADEESWARA REDDY	M.Tech	Assistant Professor
16	B.SRI KALYAN	M.Tech	Assistant Professor
17	Ch.SYAM KUMAR	M.Tech	Assistant Professor

ONLINE CERTIFICATION COURSES BY FACULTY

S.No	*Name of the Faculty*	*Course Title*	*Result*
1	Dr.K.Saroja Rani	Innovative Technologies In Geo-Technical Engineering	Completed
2	B.Sri Kalyan	Innovative Technologies In Geo-Technical Engineering	Completed

3	B.Sri Kalyan	One week FDP on Salesforce Platform Developer 1	Completed
4	B.Sri Datta Subramanyam	One week FDP on Salesforce Platform Developer 1	Completed
5	B.Sri Kalyan	One Week National Level FDP on “Coastal Engineering”	Completed
6	L.Praveen Kumar	One Week National Level FDP on “Coastal Engineering”	Completed
7	B.Sri Datta Subramanyam	One Week National Level FDP on “Coastal Engineering	Completed
8	D.V.D.Prasad	One Week FDP on Mastering AI Tool For Faculty Excellence	Completed
9	D.V.D.Prasad	One Week FDP on Exploring Emerging Frontiers in Generative AI and Quantum Computing	Completed

Faculty Patents:

S.No	*Name of the Faculty*	*Course Title*	*Result*
1	Dr.K.Saroja Rani	Smart Traffic Light: Adaptive Systems For Optimizing Traffic Flow and Reducting Congestion	Published
2	B.Sri Kalyan	Smart Traffic Light: Adaptive Systems For Optimizing Traffic Flow and Reducting Congestion	Published
3	V.Tanuja	Smart Traffic Light: Adaptive Systems For Optimizing Traffic Flow and Reducting Congestion	Published

STUDENT ACTIVITIES

NPTEL Online Certifications

S.No	*Roll Number*	*Name of the Student*	*Course Title*	*Result*
1	21A31A0102	Ch.Meghana	Ground Improvement	Completed

2	21A31A0109	K.Harsha sri	Data Science For Engineers	Completed
3	22A35A0101	N.Sri Satya Malleswari	Data Science For Engineers	Completed
4	22A35A0101	N.Sri Satya Malleswari	Privacy and security in Online Social Media	Completed

INTERNSHIP

S.No	*Year*	*Title of Internship*	*No. of Students*
1	IVth year	Cisco Programming	58
2	IIIrd year	AI-ML Virtual Internship	14
3	IIIrd year	Android developer virtual internship	12
4	IIIrd year	Cyber Security Virtual internship	1
5	IIIrd year	Data Engineering	4
6	IIIrd year	Embedded Systems	1
7	IIIrd year	Generative AI	23
8	IIIrd year	Intelligence Automation	1
9	IIIrd year	Junior Cyber security Analyst Career path	5
10	IIIrd year	Web Full Stack Developer	1

WORKSHOPS:

S.No	*Year*	*Title of Workshop*	*No. of Students*
1	IVth Year	One Week Workshop on Building Drafting Using AUTO CAD	58
2	IVth Year	One day International Workshop On “Recent Advances In Ground Modification”	16

PLACEMENTS:

S.No	*Roll No*	*Name of the student*	*Name of the Company selected*
1	21A31A0104	G.Gowthami Sri	Savanti’s solutions India Pvt Ltd
2	21A31A0108	J.Mahalakshmi	Savanti’s solutions India Pvt Ltd
3	21A31A0116	V.Saranya Sahiti	Savanti’s solutions India Pvt Ltd
4	21A31A0132	M.Ajay Kumar	Savanti’s solutions India Pvt Ltd

5	21A3A10139	P.Durga Laxmi Prasad	Power Mech
6	21A31A0142	S.Haranadh Raja	Power Mech
7	21A31A0144	V.Durga Vinodh Kumar	Power Mech
8	21A31A01045	Y.Jayakanth	Power Mech

STUDENTS ACHEIVEMENTS:

S.No	***Year***	***Tttle of Event***	***Name of the winner***	***Prize Awarded***
1	II year	4x100 relay (running)	Nooka raju	3rd Prize (Bronze Medal)
2	III year	Archery	K.Jagadeewar	2 nd Prize

WEBINAR'S/SEMINAR'S ORGANIZED BY ACCE(I):

S.No	***Date of Webinar***	***Speaker of the Webinar/Seminar***	***Title of Webinar/Seminar***	***No. of Students attended***	***Place Organized***
1	28-7-2024	Er.C.Anjaneya Prasad	Precast Concrete Construction - Sustainability	29	online
2	25-8-2024	Prof.C.B.Kameswara Rao	Precast Construcuton Joints and Connections	34	Online
3	26-9-2024	D.V.D Prasad	Sustainable Society and Sustainabale Building Development	43	MS-7 Class Room
4	28-10-2024	B.Sri Kalyan	Recent Advancement in Under Water Constructions	35	MS-8 Class room
5	24-11-2024	Dr.A.Murali Krishna	Importance Of the Geotechninal Investigations and Ground Behaviour Consideration in Infrastructure Projects	32	online
6	29-12-2024	Dr.H.N.Ramesh	Importance Of the Geotechninal Investigations In Civil Engineering Construction and Earth Quake Effects	45	online

GALLERY

Students attended the Workshop On "Building Drafting Using AUTO CAD"

K.Jagadeesh III year Secured IInd prize in Archery under JNTUK-Central Zone

Nookaraju II year Secured IIIrdprize in 4X100 relay (running) under JNTUK zonal at Aditya University

Students attended the Workshop On "Recent Advances In Ground Modification"

EDITORIAL BOARD

FACULTY MEMBERS:

1. B.Sri Kalyan – Convenor
2. V. Tanuja– Member

STUDENT MEMBERS

1. 22A31A0113 –B.Lallu Prasad– III Year
2. 23A35A0114 – D.Surya Venkata Naga sai – III Year
3. 21A31A0121 – Ch.Ram Kishore– IV Year

HOD- CIVIL

Dr. K.Saroja Rani

Associate Professor