PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road. Surampalem. E.G.Dt., A.P. – 533 437
(Approved by AICTE, Permanently Affiliated to JNTUK. Kakinada. Accredited by NAAC with 'A' Grade)
(Recognized by UGC Under Sections 2(f) and 12 (B) of UGC act. 1956)
Ph: 08852 – 252233, 34. Website: www.pragati.ac.in

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date: 24-03-2022

Circular

A meeting is convened with the members of IQAC Committee at 02:00 PM on 26-03-2022 at IQAC Conference Hall to discuss the following agenda. All the IQAC members are requested to attend the meeting to discuss various activities.

Agenda:

1. Review on action taken on minutes of previous committee meeting
2. Review of NAAC Work
3. Review of Syllabus Coverage
4. Review of result Analysis
5. Review of Department activities
6. Strengthening of Industry Institute Interaction through MoUs
7. Review on research Activities
8. action plan for 2022-23 activities
9. Any other item

Principal

Copy to:

1. Circulate among IQAC Members
2. IQAC File
3. Principal office File.

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INTERNAL QUALITY ASSURANCE CELL (IQAC)

Minutes of IQAC – Meeting No .39 dated on 26ᵗʰ March 2022

IQAC meeting is held through online dated on 26ᵗʰ March 2022 at 2:00 P.M under chairmanship of Dr.K.Satyanarayana, Principal, Pragati Engineering College, to discuss following agenda and to adopt resolutions.

Dr. A Radha Krishna, Assoc. Prof. of CSE, On behalf of IQAC, he extended a warm welcome to all the members for the 39ᵗʰ Meeting of IQAC.

Dr. A Radha Krishna outlined some of the highlights during the period from last meeting till date

i. College applied for renewal of Autonomous status to UGC and the visit is due.

ii. Five Departments of the College namely CSE, ECE, EEE, ME and Chemistry are recognized as Research Centres by JNTUK, Kakinada, for the academic years 2021-22 and 2022-23.

iii. A total of 1621 placements were secured by 2022 graduating batch of students. This is the highest no of placements secured by any batch in Pragati Engineering College, till date.

iv. The college collaborated with the following organisations for the betterment of student community.

    i) Infosys (Springboard)

    ii) TCS- MBU (Microsoft Business Unit)

    iii) Qlik (Data Analytics)

    iv) Alteryx (Data Analytics)

    v) Github Academic Alliance

    vi) Salesforce

v. Following Centres of Excellence (CoE) were established under MoU with respective companies. As part of the CoE, students will be trained in the latest technologies and recruited by these companies.

    i) EPAM

    ii) CSS Corp

vi. Research/Consultancy works to the tune of One Crore Eighty Nine Lakhs is currently in progress.

vii. College is ranked at 9th position (in the country) in the AICTE- EduSkills Virtual Internship (2nd Cohort- March to May 2022).

viii. Seven teams (6 teams from ECE and 1 team from CSE) from the college are shortlisted for the finals of Smart India Hackathon-2022.

ix. **Dr. G Avinash, Associate Professor of Mechanical Engineering department** was awarded Ph.D. degree in the department of Mechanical Engineering, from JNTUK, Kakinada, under the supervision of **Dr. S Sambhu Prasad, Professor of Mechanical Engineering Department and Director, Pragati Engineering College** and **Dr. D Lingaraju, Assistant Professor of ME, UCEK, JNTUK, Kakinada** in April 2022. The title of the thesis is **"Fabrication of AI 4032 Composites with Silicon Reinforcements for Study of Mechanical, Corrosive and Tribological Behaviour"**.

x. **Dr. J.D.Naidu,** Associate Professor of Basic Sciences & Humanities (English) was awarded Ph.D. Degree in the department of English from Andhra University, Visakhapatnam, under the guidance of **Prof. P. Rajendra Karmarkar, Andhra University, Visakhapatnam,** in the month of December, 2021. The title of the thesis is **"The Theme of Family Ties in the Select Novels of Pearl S. Buck and Eudora Welty- A Select Study"**.

xi. **Dr. Prasad S,** Associate Professor of Basic Sciences & Humanities (English) was awarded Ph.D. Degree in the department of English & Communications, from Dravidian University, Kuppam under the supervision of **Prof. Ch. A. Rajendra Prasad, Professor of English, Department of English and Communications, Dravidian University, Kuppam, AP** in December 2021. The title of the thesis is **"Teaching writing Skills through creating awareness of Genre-Specific Features of English Language in Essays: An Evaluation of the Prescribed English Text Books of JNTU-K(2013-2016)"**.

xii. Mr. Vamsi Kiran Somayajula, Training and Placement Officer is invited as a member of
      i) CII Southern Region Sub-Committee on Education, Skills & HR for 2022-23.
      ii) Education and Skills Panel of Confederation of Indian Industry (CII), A.P. for 2022-23.

xiii. Mr. V Praveen (EEE- 16A35A0209) has received two gold medals in VIII Convocation of JNTUK, Kakinada on 9th March 2022.
      i) List of toppers from affiliated colleges of JNTUK Kakinada.
      ii) Overall topper in all branches.

xiv. Mr. Y Manas Kumar, Assistant Professor, Department of CSE, received NPTEL Discipline Star for Jan-Apr 2022.

xv.   Ms. N. Gayatri Sowjanya (IT- 18A31A1219) participated in the largest Kuchipudi Dance consisting of 1183 participants and recognized by Guinness book of World Records.

xvi.   Ms. N. Gayatri Sowjanya (IT- 18A31A1219) participated in International Carnatic Musicians Dancers Association (ICMDA), Chennai season 2 online competitions and won International level 1st Prize (Gold) in open category.

xvii.   Mr. K S J Sivarama Krishna (CSE- 18A31A05A7) received Gold Medal at India Skills-2021 in Cyber Security Trade organized by National Skill Development Corporation(NSDC).

xviii.   Mr. S Datta Sai Vinay (CSE- 18A31A0552) secured All India GATE Rank 1321 in CSE.

1. Item No 1: Review on action taken on minutes of previous committee meeting

Suggestion in previous IQAC Meeting	Action Taken
Discussion on Submission on AQAR	Collected the Data for Academic Year 2020-21 and Proof documents are verified at criteria Level by IQAC Co-coordinator Mr.V.Prasanth
Discussion on Updation on Institution Website	Due to new Change in Website server lot of documents are updated to new website. Mr.G.Satyamohan choudhary is assigned to identify gaps and instruct the department fill the data as per the format prescribed by IQAC
ERP implementation and execution	ERP is successfully implemented in admissions, Examinations and Academics and college administration is agreed to upgrade to better version to make paperless college in execution of college and department level activities
Roles and Responsibilities of Mentors	Changes are made in mentor and Mentee systems and shared with HODs and requested to implement from 1st April 2022 onwards
NIRF Ranking 2022	Efforts are made to get good NRIF ranking, R&D Committee is requested to convene is a meeting with HODs, Doctorates and Ph.D pursuing Candidates to involve more in research.

2. Item No 2: Review of NAAC Work

NAAC work Status is presented by NAAC Coordinator Mr.V.Prasanth for members to review

Criteria Wise Summary

CRITERION I - CURRICULAR ASPECTS	
1.1 - Curriculum Design and Development	Good
1.2 - Academic Flexibility	Good

1.3 - Curriculum Enrichment	Average (Add on courses to be improved)
1.4 - Feedback System	Average (proper Documentation is not made)

CRITERION II - TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile	Very Good
2.2 - Catering to Student Diversity	Very Good
2.3 - Teaching- Learning Process	Good
2.4 - Teacher Profile and Quality	Good
2.5 - Evaluation Process and Reforms	Good
2.6 - Student Performance and Learning Outcomes	Good
2.7 - Student Satisfaction Survey	Good

CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities	Average (Internal funding and Quality measure are not initiated)
3.2 - Resource Mobilization for Research	Average (Adequate funding is not generated)
3.3 - Innovation Ecosystem	Good
3.4 - Research Publications and Awards	Good
3.5 - Consultancy	Poor
3.6 - Extension Activities	Very Good
3.7 - Collaboration	Poor (MoUs with other institutes and Industries are not available)

CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities	Very Good
4.2 - Library as a Learning Resource	Average (No Access to IEEE, ACM digital library, e-books etc)
4.3 - IT Infrastructure	Good
4.4 - Maintenance of Campus Infrastructure	Good

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support	Very Good
5.2 - Student Progression	Average (poor performance in competitive exams for higher education's and data maintenance
5.3 - Student Participation and Activities	Very Good
5.4 - Alumni Engagement	Poor

CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT	
6.1 - Institutional Vision and Leadership	Very Good
6.2 - Strategy Development and Deployment	Good
6.3 - Faculty Empowerment Strategies	Good
6.4 - Financial Management and Resource Mobilization	Average
6.5 - Internal Quality Assurance System	Good
CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES	
7.1 - Institutional Values and Social Responsibilities	Good
7.2 - Best Practices	Good
7.3 - Institutional Distinctiveness	Good

3. **Item No 3 : Review of Syllabus Coverage**

Dr.G.Satish, Associate Professor of ME & Academic Coordinator Submitted the syllabus coverage of all departments for review and Dr.K.Satyanarayana advised the HODs to allot 2 more periods who are lagging behind the syllabus.

Department wise List of Faculty who are lagging behind the syllabus is to be prepared and mailed to all HODs. Dr.G.Satish is requested to Coordinate the work

4. **Item No 4 : Review of result Analysis**

Dr.Y.Jayababu Presented the Student results for members to review

a) B.Tech I Year II Semester Regular Examinations (R20) Results Analysis – September -2021

Branch	I year II semester (2020 Adm. Batch)			
	Appeared all subjects	Passed	Failed	Pass %
Civil Engineering	103	44	59	**42.72**
Electrical and Electronics Engineering	97	45	52	**46.39**
Mechanical Engineering	98	41	57	**41.84**
Electronics and Communications Engineering	310	151	159	**48.71**
Computer Science and Engineering	190	134	56	**70.53**
Information Technology	64	31	33	**48.44**
Computer Science And Engineering (Artificial Intelligence & Machine Learning)	64	41	23	**64.06**
Computer Science And Engineering (Data Science)	63	36	27	**57.14**
Total	**989**	**523**	**466**	**52.88**

b) M.Tech – II Semester Regular Examinations Results Analysis – October -2021

Branch	M.Tech II semester (2020 Adm. Batch)			
	Appeared all subjects	Passed	Failed	Pass %
M.Tech (CSE)	03	01	02	33.33
M. Tech(ES)	03	03	00	100.00
M. Tech(VLSI SD)	03	02	01	66.67
M.Tech (PE&ED)	01	01	00	100.00
M.Tech(CAD/CAM)	08	07	01	87.50
Total Pass	18	14	04	77.78

c) B.Tech IV Year I Semester Regular Examinations (R16) Results Analysis –Jan -2022

Branch	IV year I semester (2018 Adm. Batch)			
	Appeared all subjects	Passed	Failed	Pass %
Civil Engineering	120	89	31	74.17
Electrical and Electronics Engineering	128	108	20	84.38
Mechanical Engineering	253	172	81	67.98
Electronics and Communications Engineering	322	265	57	82.3
Computer Science and Engineering	195	171	24	87.69
Information Technology	54	46	08	85.19
Total	1072	851	221	79.38

d) B.Tech III Year I Semester Regular Examinations(R19) Results Analysis –Feb -2022

Branch	III year I semester (2019 Adm. Batch)			
	Appeared all subjects	Passed	Failed	Pass %
Civil Engineering	118	92	26	77.97
Electrical and Electronics Engineering	135	93	42	68.89
Mechanical Engineering	232	114	118	49.14
Electronics and Communications Engineering	345	242	103	70.14
Computer Science and Engineering	206	180	26	87.38
Information Technology	64	51	13	79.69
Total	1100	772	328	70.18

e) III B.Tech I Semester Regular (R16) (Re admitted) - February -2022

S.No.	Branch	Name of the Examination	No.of Students Appeared	No.of Students Passed	Pass %
1	Civil Engineering	III B.Tech I Semester Regular (R16) (Re admitted) - February -2022	01	00	0.00

f) B.Tech II Year I Semester Regular Examinations(R20) Results Analysis –Feb -2022

Branch	II year I semester (2020 Adm. Batch)			
	Appeared all subjects	Passed	Failed	Pass %
Civil Engineering	124	68	56	54.84
Electrical and Electronics Engineering	120	67	53	55.83
Mechanical Engineering	127	71	56	55.91
Electronics and Communications Engineering	347	187	160	53.89
Computer Science and Engineering	208	155	53	74.52
Information Technology	70	43	27	61.43
Computer Science And Engineering (Artificial Intelligence & Machine Learning)	70	54	16	77.14
Computer Science And Engineering (Data Science)	69	49	20	71.01
Total	1135	694	441	61.15

g) II B.Tech I Semester Regular (R19) (Re admitted) - February -2022

S.No.	Branch	Name of the Examination	No.of Students Appeared	No.of Students Passed	Pass %
1	Electrical and Electronics Engineering	II B.Tech I Semester Regular (R19) (Re admitted) - February -2022	01	00	0.00

h) B.Tech I Year I Semester Regular Examinations(R20) Results Analysis – March -2022

Branch	I year I semester (2021 Adm. Batch)			
	Appeared all subjects	Passed	Failed	Pass %
Civil Engineering	47	23	24	48.94
Electrical and Electronics Engineering	100	52	48	52.00
Mechanical Engineering	93	33	60	35.48

Electronics and Communications Engineering	330	216	114	65.45
Computer Science and Engineering	194	167	27	86.08
Information Technology	64	53	11	82.81
Computer Science And Engineering (Artificial Intelligence & Machine Learning)	132	106	26	80.3
Computer Science And Engineering (Artificial Intelligence)	66	52	14	78.79
Computer Science And Engineering (Data Science)	66	58	8	87.88
Total	1092	760	332	69.6

i) **M.Tech –III Semester Regular Examinations Results Analysis – March -2022**

Branch	M.Tech III semester (2020 Adm. Batch)			
	Appeared all subjects	Passed	Failed	Pass %
M.Tech (CSE)	04	04	00	100.00
M. Tech(ES)	03	03	00	100.00
M. Tech(VLSI SD)	03	03	00	100.00
M.Tech (PE&ED)	01	01	00	100.00
M.Tech(CAD/CAM)	08	08	00	100.00
Total Pass	**19**	**19**	**00**	**100.00**

5. Item No: Review of Department activities

Student Activities

Participation in Award Winning Events		
S. No.	**Event**	**Total**
1	Paper Publications	569
2	Poster Presentation	422
3	Poster Making Contest	6
4	Project display	140
5	Workshops	86
6	Internships	1
7	Model Presentation	2
8	PPT	50
9	Innovative Design Ideas	20
10	Projects	44
11	Online Quiz	2250
12	Tricky loops	10
13	Online courses	7
14	External event (Taekwondo)	1
15	Sports	49
16	STRIDES	287
17	EPR0ZYNE STRIDES 2K21	79
18	International Mother Language Day	131
19	Essay Writing	1122

20	Contraptions	8
21	Student Chapter Inauguration	105
22	Build the circuit	117
23	Coding and debugging	1133
24	Technical JAM	16
25	NSS	23
26	Elocution	185
27	Seminar	196
28	App expo	110
29	Coding challenge	870
	TOTAL	8039
	Awards won	338

Participation Events

No. of Participations		
S. No.	Event	Total
1	Workshop	395
2	Conferences	2
3	Guest Lectures	309
4	Webinars	324
5	Smart India Hackathon	317
6	Rangoli	53
7	Kite	31
8	Prag Soft Events-coding	2297
9	Technical Quiz	941
10	Certification Course / NPTEL	459
11	Youth Entrepreneurs	8
12	International Mathematics Day	84
13	Projects	198
14	Wipro projects	2
15	IIC " How to Plan Start-Up and Legal & Ethical Steps	39
16	Lead India	1060
17	Start up competition for university & colleges of AP by Quality Assurance cell of APSCHE	4
18	AYUSH start up challenge/AICTE/START UP INDIA	1
19	Research paper presentations	2
20	Internship	241
21	Industrial Visit	136
22	Attended to CM's meeting on 21-04-2022	20
	TOTAL	6923

Faculty Activities

S. No	Event	Total
1	Workshops	12
2	Paper Publications	37
3	FDPs Attended	33
4	Seminar	1
5	Conferences Attended	10
6	NPTEL Certifications	15
7	Online Certifications	1
8	Webinars	13

9	Patents	3
10	Book Chapter Publications	8
11	Guest Lectures delivered	1
12	Faculty Trained by Industry	4
13	Articles Reviewed	1
14	Technical Chair Person	1
15	Ph.D. Awarded	3
16	APRCET Qualified	4
	TOTAL	147

6. Item no 6: Strengthening of Industry Institute Interaction through MoUs

To strengthen **Industry Institute Interaction** the college administration appointed **Dr.K.Chakrapani** as coordinator for visiting various industries in and around East Godavari to build a good relationship to know the possibilities of collaboration with their reputed industries. He is requested to submit a report on or before 02/07/2022

7. Item no 7 : Review on research Activities

i) **Research Papers Published :**

The following publications were made by faculty of the following departments in SCOPUS / SCI / UGC recognized journals.

Dept	SCI Expanded Journals	SCOPUS Indexed Journals	UGC Approved	Others / Communicated and Under Review	Total
EEE	--	--	--	01	01
ME	--	--	56	01	57
ECE	--	02	--	--	02
CSE	--	01	70	--	71
IT	01	01	16	--	18
BS&H	--	02	--	--	02
Total	**01**	**06**	**142**	**02**	**151**

ii) **Patents filed / published :**

S.No	Dept	Name of Faculty	Title/name of Project	Published/ Filing details	Date & Reference No
1	EEE	Dr.G.Naresh	Organic Cake Based Herbal Mosquito Repellent Composition and Preparation Method Thereof	Published	26/11/2021 Application No. 202141051384
2	EEE	Dr.G.Naresh	Vehicle to Grid (V2G) for EV Charging energy Management system	Published	26/11/2021 Application No. 202141051391

iii)   **a) Ph.D guidance by internal faculty :**

i) **Dr. P. Vijay Varma** has been awarded Ph. D in Chemistry by JNTUK, Kakinada in April-2022 under the Research Guidance of Dr. P.V.S.Machiraju (Research Supervisor), Professor of Chemistry, Pragati Engineering College. The title of the thesis is "Synthesis and Characterization of Some Novel Heterocyclics (Isoxazoles and Pyrazoles) and Their Biological Evaluation for Assessment of Medicinal Potentials".

b) Ph.D Awarded / thesis Completed by faculty :

i. **Dr. G Avinash,** Associate Professor of Mechanical Engineering department was awarded Ph.D. degree in the department of Mechanical Engineering, from JNTU, Kakinada, under the supervision of Dr. S Sambhu Prasad, Professor of Mechanical Engineering Department and Director, Pragati Engineering College and Dr. D Lingaraju, Assistant Professor of ME, UCEK, JNTUK, Kakinada in April 2022. The title of the thesis is "Fabrication of AI 4032 Composites with Silicon Reinforcements for Study of Mechanical, Corrosive and Tribological Behaviour".

ii. **Dr.J.D.Naidu,** Associate Professor of Basic Sciences & Humanities (English) was awarded Ph.D Degree in the department of English from Andhra University, Visakapatnam, under the guidance of Prof. P. Rajendra Karmarkar, Andhra University, Visakapatnam, in the month of December, 2021. The title of the thesis is " The Theme of Family Ties in the Select Novels of Pearl S. Buck and Eudora Welty- A Select Study ".

iii. **Dr. Prasad Seemusuru,** Associate Professor of Basic Sciences & Humanities (English) was awarded Ph.D. Degree in the department of English & Communications, from Dravidian University, Kuppam under the supervision of Prof. Ch. A. Rajendra Prasad, Professor of English, Department of English and Communications, Dravidian University, Kuppam, AP in December 2021. The title of the thesis is "Teaching writing Skills through creating awareness of Genre-Specific Features of English Language in Essays: An Evaluation of the Prescribed English Text Books of JNTU-K(2013-2016)
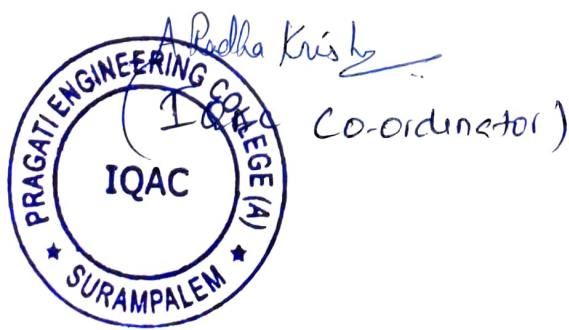
c) Ph.D Admission:

i) **Mrs. D.V.V. Durgaveni,** JRF of BRNS Project got selection in Ph.D. programme in GITAM University, Hyderabad Campus.

ii) **Mrs. T Tejasvi,** Assistant Professor, CSE Department got selection in Ph.D. programme in GITAM University, Visakhapatnam Campus.

iii) **Mr. A Yeswanth,** Assistant Professor, ME Department got selection in Ph.D. programme in JNTUK, Kakinada.

iv. **Book Chapters Published by the Faculty from various Departments- 07 Nos.**

1. Mr. Y Manas Kumar "Research Challenges in Crypto currency Transaction Networks", Publisher: The Bhopal School of Social Sciences · 8th Nov 2021, A Book Chapter in the Edited Book titled "Crypto currency: A Bright Future or a Fad ".ISBN:978-93-91410-11-7.

2. Mr. Y Manas Kumar "NOVEL METHOD FOR PRIVATE DATA RELEASE IN CYBER-PHYSICAL SYSTEMSNOVEL METHOD FOR PRIVATE DATA RELEASE IN CYBER-PHYSICAL SYSTEMS", Advances in Computer Science and Information Technology (ISBN: 978-93-91768-28-7), Feb 1, 2022.

3. Mr. Y Manas Kumar "Beyond the Pandemic: Survival of the Human Race and Challenges", Book Title: Handbook of Research on Lifestyle Sustainability and Management Solutions Using AI, Big Data Analytics, and Visualization Copyright: © 2022, IGI Global Publishers, DOI: 10.4018/978-1-7998-8786-7.ch017.

4. Mr. Y Manas Kumar "Privacy Preserving Mechanism by Application of Constrained Nonlinear Optimization Methods in Cyber-Physical System", Wiley Publications, Published on 27-3-2022. DOI-https://doi.org/10.1002/9781119812555.ch7.

5. Mr. Y Manas Kumar "Application of Exact Barrier-Penalty Function for Developing Privacy Mechanisms in Cyber-Physical Systems", Published on Apr 20, 2022, Publishers-Chapman and Hall/CRC, eBook ISBN: 9781003206088. DOI-https://doi.org/10.1201/9781003206088.

6. Dr. M Radhika Mani" An Integrated Approach for medical Image Classification using Potential Shape Signature and Neural Network" Advanced Technologies and Societal change, February 2022.

7. Dr. V.Sailaja, Dr. P.Sunitha, Dr. A.Srinivas, Mr. G.S.Sivakumar, Mr. M Ravi Kumar "Transformation and Future Directions of Integrated Chip (IC) Manufacturing Industry using Artificial Intelligence Models", ISBN13: 9781668442463(Submitted)

8. **Item no 8 : action plan for 2022-23 activities**

HODs are requested to prepare a action plan for Academic Year 2022-23 to conduct events for both Faculty and students and submit on or before 22/05/2022

A.Radha Krish
(IQAC Co-ordinator)

PRINCIPAL

IQAC
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SURAMPALEM