WELCOME

28ᵗʰ IQAC Regular Meeting

Thursday, 29ᵗʰ Dec. 2022

Agenda

A) Action taken report on the proposals of 27th IQAC meeting

1) Implementation of *Activity Calendar* in addition to Academic Calendar
2) Institutionalization of *R & D Excellence Award*

B) Issues open for discussion

1) Identification & subsequent strengthening of one **major thrust area** of *Research in Emerging fields* *in every department* by providing necessary infrastructural facilities & identifying competent faculty, *to fulfill the "Make in India" and "Atmanirbhar Bharat"*

2. Revamp of *"Continuous (Internal) assessment pattern".*

3. Any other item with the permission of Chairperson.

A) Action taken report on the proposal of 27th IQAC meeting

1. Implementation of Activity Calendar in addition to Academic Calendar

Activity Calendar - Significance:

- Responsibilities of HEIs and their faculty are changing in present Educational scenario……..

  Accreditations (NAAC & NBA) and Rankings (NIRF, ARIIA, etc.) – Documentation - evidences and outcomes.

- Chance of overlooking of the activities / may not perform them in scheduled time, by several reasons.

- Example: 1. Course end feedback… busy with their exams, corrections of answer scripts, uploading marks,…..
      2. Quarterly review of Strategic plan outcomes at dept level……effects the performance

- Putting all such activities, categorically, month wise, before us in a Calendar - **Activity Calendar**

School days

A) Action taken report on the proposal of 27th IQAC meeting

1. Implementation of Activity Calendar in addition to Academic Calendar

Activity Calendar for all level of leadership:

➢ Principal, Deans, AO, PD, NSS, Cultural coordinator, etc …….at Institute level

➢ HODs, PCs, etc……at Department level.

Activity Calendar - Advantages:

• All scheduled activities are **conducted appropriately, in time**.

• When a person suddenly **left from his key responsibility**, lot of vacuum is created. But Activity Calendar **guides the successor** to turn-up quickly.

• It guides all the Stakeholders for **successful, effective** & **smooth** functioning of Institution.

• IQAC strongly believes that Activity calendar enhances the **performance** of Top & middle order leadership and thus Institution.

A) Action taken report on the proposal of 27th IQAC meeting

1) Implementation of *Activity Calendar*

IQAC & Research and Development
Activity Calendar for 2022-23

	JULY 2022					
SUN	MON	TUE	WED	THU	FRI	SAT
31					1	2
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Date	Activities – July 2022
1	Alerting HoDs, Deans, PCs, AO & others to prepare their Activity Calendar.
4	Meeting with AQAR Coordinators to prepare AQAR templates.
5	Data collection from Depts.. & its consolidation for AQAR submission to NAAC in two months.
6	Inviting Seed grant proposals.
7	Collection of annual goals from Depts, PD, Cultural, NSS coordinators in line with Strategic plan in 15 days.
9	Academic Audit – Engg. Depts. – inviting senior faculty from IITs/ NITs
11	Academic Audit – Non Engineering Depts. by an audit committee with Senior faculty
13	Interaction with R&D Coordinators – planning for the academic year
18	Remainder - Activity Calendar - HoDs, PCs & others
20	Collection of Dept. Goals, PD, Cultural, NSS goals, – Achieved targets of previous year & Proposed goals for the next year.
28-30	Scrutinisation of Incentive applications & Recommendation.

A) Action taken report on the proposal of 27th IQAC meeting

1) Implementation of *Activity Calendar*

IQAC & Research and Development Activity Calendar for 2022-23

AUGUST 2022						
SUN	MON	TUE	WED	THU	FRI	SAT
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Date	Activities – August 2022
1	Collection of PBAS forms (R&D component) from faculty – starts
3	NSS 1st meeting minutes -submission
5	Sports & Cultural activities achievements – Review -Annual planning
8-13	Seed grant – DPR – Project Presentation before committee
16	Collection of PBAS forms (R&D component) from faculty - ends
18	Organization of WS to students on quality projects/ paper publications/ Patents
20	Academic Audit Report submission - with AT on previous audit lapses - Engg.
22	Academic Audit Report submission - with AT on previous audit lapses - Non Engg. Depts
25-27	Seed grant - allotment
29-31	Scrutinisation of Incentives applications & Recommendation.

Date	Activities – Sept. 2022
1	PBAS (R&D component) scrutinisation - starts
5	Verification / Review on collected & consolidated data of AQAR - submission to NAAC
19	27th IQAC Meeting – Agenda / circular
20-28	Data collection on AT for previous meeting + Agenda items + PPT preparation
28	27th IQAC Meeting
30	27th IQAC Meeting minutes preparation & uploading to website
30	PBAS (R&D component) scrutinisation - ends
27-30	Incentives applications verification & Recommendation

SEPTEMBER 2022						
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OCTOBER 2022						
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Date	Activities – Oct. 2022
1	Communication of discussed agenda points to depts. / others
3	Consolidated AQAR data – quality parameters – Coordinators verification - starts
7	R & D ethics committee meeting
15	New format - Application for sanction of incentives- Publications
24	Consolidated AQAR data – quality parameters – Coordinators verification - ends
27-31	Incentives applications verification & Recommendation

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Date	Activities – November 2022
3	Consolidated data - AQAR submission to NAAC web portal – starts.
4	Meeting with R&D Coordinators – status of fulfillment of R&D targets
5	Changes – incentives – sponsored research projects & consultancy management approval
7	Request for Major thrust areas of research in emerging fields from all Depts.
12	Research proposals for seed grant
19	Changes in PBAS 2022-23 R & D Component – Heads feedback
23	Changes – Incentives – Sponsored Research projects & consultancy management approval.
25	IQAC Initiatives
30	Consolidated data - AQAR submission to NAAC web portal – ends.
28-30	Incentives applications verification & Recommendation

NOVEMBER 2022						
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DECEMBER 2022						
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Date	Activities – December 2022
1	Data collection for Major thrust areas of research in emerging fields from all depts.
2	Establishment of Research & Development Cell – Committees formation
3	Research Ethics Committee meeting
5	Proposals for seed grant
7	R & D review in MBA dept.
9	R & D review in MCA dept.
12	R & D review in Mathematics dept.
14	R & D review in Physics dept.
16	R & D review in Chemistry dept.
19	28th IQAC Meeting - circular
23	Circulation of PBAS 2022-23 forms to all depts.
20-28	Data collection for agenda items & AT for 27th meeting + PPT preparation
29	28th IQAC Meeting
30	28th IQAC Meeting minutes preparation & uploading to website
29-31	Incentives applications verification & Recommendation

Date	Activities – January 2023
2	Communication of discussed agenda points to depts. / others
6	NSS 2nd meeting minutes -submission
9	CAS-Performance Based Appraisal System form preparation & upload in web portal
10	Activities -uploading in IQAC Web portal
11	R & D review in ME dept.
16	R & D review in ECE dept.
18	R & D review in CSE dept.
20	R & D review in IT dept.
23	R & D review in CE depts.
25	R & D review in EEE & EIE depts.
27	Sports & Cultural activities achievements – Review of progress
29-31	Incentives applications verification & Recommendation

JANUARY 2023						
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FEBRUARY 2023						
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Date	Activities – Feb. 2023
6	Pedagogy related workshop based on feedback – planning
8	Awareness creation programs on R & D to students
17	Notice for improvement in Sports & Cultural activities
13-18	Scientific Engineering Education Practices
29-31	Incentives applications verification & Recommendation

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Date	Activities – March. 2023
6	**Interaction with R&D Coordinators**
8	**Seed grant utilization-project review**
17	29th IQAC Meeting agenda - circular
20-28	Data collection for agenda items & AT for previous meeting + PPT preparation
28	29th IQAC Meeting
30	29th IQAC Meeting minutes preparation & uploading to website
29-31	**Incentives applications verification & Recommendation**

MARCH 2023						
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APRIL 2023						
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Date	Activities – Apr. 2023
1	Communication of discussed agenda points to depts. / others
3	Collection of feedback on non-teaching training programs
4	Upload Seminars/Workshops/Conferences/FDPs/Training programs organized in their departments during 2022-23 in Activities of IQAC Portal with a detailed report
5	Quarterly reviews on Department goals
7	Parameters to be focused from April-June 2023 Mandatory requirement of NAAC- AQAR Compliance from all departments
8	CAS-Performance Based Appraisal System form preparation & upload in web portal
10	Re-submission of AQAR report
10-14	Workshop on Design thinking
17	Notice send to Sri P. Sateesh Kumar Reddy Sr.Asst.Prof, ME Dept. for feedback of the Participants of Design thinking course.
29-31	**Incentives applications verification & Recommendation**

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Date	Activities – May. 2023
2	R & D review in MBA dept.
4	R & D review in MCA dept.
9	Professional / Skill Development / Training programs organized for Non-Teaching staff with detailed report during 22-23
12	Faculty trained in Industries with detailed report during 22-23
24	2 to 3 Best Practices from each department
26	Financial support to attend Conference, Workshops in AY 2022-23
29-31	Incentives applications verification & Recommendation

MAY 2023						
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JUNE 2023						
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Date	Activities – June. 2023
2	R & D review in CSE dept.
5	Alumni Meeting
6	End of the AY R & D analysis to management – Data collection from depts.
7	R & D review in IT dept.
8	Student Satisfaction survey – Dr Suvarna vani, CSE
9	R & D review in ECE dept.
12	R & D review in EIE dept.
13	Meeting on Progress of Sports & Cultural Activities
14	R & D review in CE dept.
15	End of the AY R & D analysis to management – Analysis
16	R & D review in ME dept.
17	29th IQAC Meeting agenda - circular
19	Collection of Activity Calendar from all Departments
19	R & D review in EEE dept.
20-27	Data collection for agenda items & AT for previous meeting + PPT preparation
21	R & D review in Maths & Physics depts.
23	R & D review in English & Chemistry depts.
27	29th IQAC Meeting
28	End of the AY R & D analysis to management – Submission
29	29th IQAC Meeting minutes preparation & uploading to website
30	Communication of discussed agenda points to depts. / others
29-31	Incentives applications verification & Recommendation

HOD (CSE) - Activity Calendar for 2022-23

JULY 2022

SUN	MON	TUE	WED	THU	FRI	SAT
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Date	Activities – July. 2022
1-3	Review on EPICS batches and projects
1	PAC meeting
4	Consolers' meeting
5-6	Review on NBA/NAAC Files updation
7-9	Review on Professional Society activities
11	Plans for improving internships/ placements –Review
12	R& D meeting: Faculty publications Review
13	Review on usage of MOODLE/LMS in the department
14-16	SRP preparation Review 2/4, 3/4, 4/4
18-19	Review on NBA/NAAC Files updation
20	Research group co ordinates review
21	Faculty meeting
23	DAB Meeting
25-27	Mini project Reviews
29	BOS meeting
30	Participation of Faculty in conferences & FDP' soutside4 -5 EPICS

Date	Activities – August 2022
2	Counselors' meeting
4-5	Review on Professional Society activities
6	Attainment of CO,PO and PSO
8	Induction Program(5th Sem)
9-11	Question paper-Review(A-I)(7th Sem)
16	Knowledge sharing Program.
18-19	Internship/Placements-Review
20	Collection of Feedback 2/4, 3/4, 4/4
22-24	Mini project Review
25	Review on teaching learning process ALM's
26	Follow up action on Feed back
27	Faculty meeting
29	R& D meeting: Faculty publications Review
30	Academic Audit

AUGUST 2022

SUN	MON	TUE	WED	THU	FRI	SAT
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HOD (CSE) - Activity Calendar for 2022-23

Date	Activities – Sept. 2022
1-3	Review on EPICS Projects
2	Consolers' meeting
5-7	Review on Professional Society activities
8	Induction(3rd Semester)
9	Remedial class-review
10	Faculty meeting
12-14	Lab rubrics review-2/4,3/4,4/4
19	Internship/Placements-Review
19-21	Mini project Review
24	Course coordinators meeting
26	Review on teaching learning process-Syllabus coverage, registers verification
27	Course coordinators meeting
29	Review on correction & issue of answer scripts (A- I)(5th Semester)
30	R& D meeting: Faculty publications Review

SEPTEMBER 2022						
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OCTOBER 2022						
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Date	Activities – Oct. 2022
3-5	Review on EPICS Projects
4	Review on correction & issue of answer scripts (S-I)
5-7	Review on Professional Society activities
8	Review on Research Publications
10	Remedial class-review
12-14	Lab rubric review-2/4,3/4,4/4
17-19	Mini Project Review
21	Course coordinators meeting
25	Review on teaching learning process-ALM's
26	R& D meeting: Faculty publications Review
28	Review on usage of MOODLE/LMS in the department
29	Review on correction & issue of answer scripts (A-I) (3rd Semester)
31	Consolers' meeting
31	Feedback collection (7th Semester)

HOD (CSE) - Activity Calendar for 2022-23

Date	Activities – Nov. 2022
1-2	Review on correction & issue of answer scripts (S-II) (5th Semester)
3	Consolers' meeting
5	Parents Meeting (II/IV)
1-7	Review on Professional Society activities
1-7	Organization of Skilling programmes (FDP's/W/s's / Seminars & Guest lectures)
12	Faculty meeting
18-19	Internship/Placements-Review
21	Course coordinators meeting
22	R& D meeting: Faculty publications Review
23	Review on correction & issue of answer scripts (S-I) (3rd Semester)
25	Review on teaching learning process
29	Review on correction & issue of answer scripts (A-II)
30	Review on Remedial Class(5th Sem)

NOVEMBER 2022						
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Date	Activities – Dec. 2022
1-2	Review on Professional Society activities
3	Teaching learning process-review (syllabus coverage ,Registers verification and ALM)
7	Elite meeting
8	Elite++
5-7	Organization of Skilling programmes (FDP's/W/s's / Seminars & Guest lectures)
10	Faculty meeting
12--13	Internship/Placements-Review
17	Course coordinators meeting
20-21	Data compilation and verification
23	R& D meeting: Faculty publications Review
26	BOS
27	Budget proposal-Review
29	Feed back collection (3rd & 8th Semester)

DECEMBER 2022						
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HOD (CSE) - Activity Calendar for 2022-23

Date	Activities – Jan. 2023
2-3	Review on Professional Society activities
2	Induction (6th Semester)
3	Teaching learning process-review (syllabus coverage, Registers verification and ALM)
6	Elite meeting
7	Elite++
9	Organization of Skilling programmes (FDP's/W/s's / Seminars & Guest lectures)
10	Faculty meeting
11	Review on correction & issue of answer scripts (A-1) (7th Semester)
12--13	Internship/Placements-Review
17	Course coordinators meeting
18-19	Data compilation and verification
23	R& D meeting: Faculty publications Review

JANUARY 2023						
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FEBRUARY 2023						
SUN	MON	TUE	WED	THU	FRI	SAT
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Date	Activities – Feb. 2023
1-2	Review on Professional Society activities
3	Teaching learning process-review (syllabus coverage, Registers verification and ALM)
4	Induction (4th Semester)
6	Elite meeting
7	Elite++
9	Organization of Skilling programmes (FDP's/W/s's / Seminars & Guest lectures)
10	Faculty meeting
11--13	Internship/Placements-Review
17	Course coordinators meeting
18-20	Data compilation and verification
23	R& D meeting: Faculty publications Review

HOD (CSE) - Activity Calendar for 2022-23

Date	Activities – March. 2023
1 - 2	Review on Professional Society activities
3	Teaching learning process-review (syllabus coverage, Registers verification and ALM)
6	Elite meeting
7	Elite++
9	Organization of Skilling programmes (FDP's/W/s's / Seminars & Guest lectures)
11	Faculty meeting
13--15	Internship/Placements-Review
17	Course coordinators meeting
18	Review on correction & issue of answer scripts (A-1) (S_1) (3th Semester and 6th semester)
18-20	Data compilation and verification
23	R& D meeting: Faculty publications Review

MARCH 2023						
SUN	MON	TUE	WED	THU	FRI	SAT
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APRIL 2023						
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Date	Activities – April. 2023
1 to 3	Review on Professional Society activities
3	Teaching learning process-review (syllabus coverage, Registers verification and ALM)
6	Elite meeting
7	Elite++
8	Organization of Skilling programmes (FDP's/W/s's / Seminars & Guest lectures)
11	Faculty meeting
12--13	Internship/Placements-Review
17	Course coordinators meeting
18	Review on correction & issue of answer scripts(S_1)(3th Sem
18-19	Data compilation and verification
24	R& D meeting: Faculty publications Review
26	Remedial classes review

HOD (CSE) - Activity Calendar for 2022-23

Date	Activities – May. 2023
1-2	Review on Professional Society activities
3	Teaching learning process-review (syllabus coverage, Registers verification and ALM)
5	Elite meeting
6	Elite++
8	Organization of Skilling programmes (FDP's/W/s's / Seminars & Guest lectures)
11	Faculty meeting
12--13	Internship/Placements-Review
17	Course coordinators meeting
18	Review on correction & issue of answer scripts (S_1) (3th Semester)
18-19	Data compilation and verification
24	R& D meeting: Faculty publications Review
26	Remedial classes review

MAY 2023						
SUN	MON	TUE	WED	THU	FRI	SAT
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JUNE 2023						
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Date	Activities – June. 2023
1-2	Review on Professional Society activities
3	Teaching learning process-review (syllabus coverage, Registers verification and ALM)
6	Elite meeting
8	Elite++
9	Organization of Skilling programmes (FDP's/W/s's / Seminars & Guest lectures)
12	Faculty meeting
13 --14	Internship/Placements-Review
17	Course coordinators meeting
19	Review on correction & issue of answer scripts(S_1)(3th Semester)
19-20	Data compilation and verification
24	R& D meeting: Faculty publications Review

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A) Action taken report on the proposal of 27th IQAC meeting

2. Institutionalization of R&D excellence Award

- *Modern education system does not exist without Research. Research is must for the delivery of knowledge to the students in present Higher Education.*
- *This award acknowledges and improves the research culture in the Institute.*

How VRSEC has created an ecosystem for research and development in the campus

➢ Capacity Building programs for Faculty & Students

➢ Encouraging quality student projects with financial support, if any, to the level of their Publications

➢ Collaborations/ MoUs with National & International reputed Institutions

➢ Seed Grant support

➢ Support for presenting papers in Conferences / Workshops at National & International reputed Institutions

➢ Support for patent filing to granting

➢ Incentives for publications, Sponsored Projects,…..

Now **R & D Excellence Award**

A) Action taken report on the proposal of 27th IQAC meeting

2. Institutionalization of R&D Excellence Award

Proposed Guidelines - General

1. One award for each category - Asst. Professors, Assoc. Professors and Professors.

2. Previous three years data is considered for award

3. Min total score of overall PBAS – 80% for all category of faculty

4. Prize money will be equally distributed, if more than one faculty are eligible in a category.

5. Prize money for Professors – Rs. 30,000/-, Assoc. Professors – Rs. 25,000/- and Asst. Professors – Rs. 20,000/- and garlanding with a memento

6. The awardees may be felicitated with prize money on the Innovation day / any other day decided by the head of the Institution, every year.

2. Institutionalization of R&D Excellence Award

Proposed Guidelines - Professors

1. **Min score in R&D of PBAS** (3 A) **– 90%** (Avg of three years)

2. **Min three Publications in SCI / SCIE (Q1 or Q2 free Journals) over three years**
   (The author must be at 1st position in the case of faculty involvement or max 2nd position in the case of M.Tech student project)

3. **Min author h- index (Scopus) as on assessment date - 12.**

4. **Min Rs 20 Lakhs worth of Research funding project (as PI) from Govt. / Non-Govt. agencies over three years under consideration.**

5. **Min one Indian patent – granted, over three years under consideration.**

6. **Min Two Innovative product developments – recognised (1st or 2nd Prize) in IITs / Institutions with NIRF less than 100 / Govt. Organisations.**

   OR

   Two Scopus publications in free journals from B.Tech Student projects .

7. **Participation in the Foreign University conferences through sponsorship by recognized bodies.**

   OR

   Registered Start-up with a financial turnover not less than 2 Lakhs / seed fund received from any Govt agency for incubation or product development.

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2. Institutionalization of R&D Excellence Award

Proposed Guidelines - Asso. Professors

1. **Min score in R&D of PBAS** (3 A) **– 90%** (Avg of three years)

2. **Min three Publications in SCI / SCIE (Q1 or Q2 free Journals) over three years**
    (The author must be at 1st position in the case of faculty involvement or max 2nd position in the case of M.Tech student project)

3. **Min author h- index (Scopus) as on assessment date- 10.**

4. **Min Rs 10 - 20 Lakhs worth of Research funding project (as PI) from Govt. / Non-Govt. agencies, over three years under consideration.**

5. **Min one Indian patent – Published / Granted over three years under consideration.**

6. **Min Two Innovative product developments – recognised** (1st or 2nd Prize) **in IITs / Institutions with NIRF less than 100 / Govt. Organisations.**

    OR

    Two Scopus publications in free journals from B.Tech Student projects.

8. **Participation in the Foreign University conferences through sponsorship by recognized bodies.**

    OR

    Registered Start-up with a financial turnover not less than 2 Lakhs / seed fund received from any Govt agency for incubation or product development.

    *****

2. Institutionalization of R&D Excellence Award

Proposed Guidelines - Asst. Professors

1. Faculty members should possess PhD qualification.

2. Min score in R&D of PBAS (3A) – 80%

3. Min two Publications in SCI / SCIE (Q1 or Q2 free Journals) over three years
   (The author must be at 1st position in the case of faculty involvement or max 2nd position in the case of M.Tech student project)

4. Min author h- index (Scopus) as on assessment date - 8.

5. Min Rs 5 Lakhs worth of Research funding project (as PI) from Govt. / Non-Govt. agencies, over three years under consideration.

6. Min one Indian patent – Published / Granted over three years under consideration.

7. Min Two Innovative product developments – recognised (1st or 2nd Prize) in IITs / Institutions with NIRF less than 100 / Govt. Organisations.

   OR

   Two Scopus publications in free journals from B.Tech Student projects. / from faculty

8. Participation in the Foreign University conferences through sponsorship by recognized bodies.

   OR

   Registered Start-up with a financial turnover about 2 Lakhs / Seed fund received from any Govt agency for incubation or product development.

2. Institutionalization of R&D Excellence Award

Proposed Guidelines – General guidelines

1. The awards are to be initiated one year after announcement & dissemination.

2. There must be a proper communication at the beginning of academic year to all the Faculty, so that everybody should aware of the rules of award / recognition.

3. The finalization of the score for the recognition is judged by a committee headed by the Principal.

4. Publications conversion: One SCI / SCIE = Two Scopus in Q1 / Q2 free journals, if necessary.

5. Publications should remain in Scopus data base for all the years under consideration.

6. Relaxation may be given from either 7th or 8th item for Physics, Chemistry, Maths & English depts, provided they have to balance them with appropriate no of additional publications.

1) Identification & subsequent strengthening of one major thrust area of *Research in Emerging fields* in every department by providing necessary infrastructural facilities & identifying competent faculty, *to fulfill the "Make in India" and "Atmanirbhar Bharat"*.

Intension:

To make every department strong in a particular area of research by promoting extensive research work in that area.

Implementation Strategy:

➢ **Identifying thrust area of Research in emerging field, useful to the Society & Industry.**

➢ **Identifying competent faculty / recruiting them, if necessary**

➢ **Providing infrastructural facilities in phased manner in the area of research**

➢ **Collaborating with institutions & Research organizations, working in the same field.**

Expected outcomes:

➢ **Research work focusing on Outcomes –** *Quality Publications, Patents, innovative products, grabbing Research projects & research awards.*

➢ **Finally, aspiring recognition of the department from outside world.**

1) Identification & *subsequent* strengthening of one major thrust area of *Research in Emerging fields* by providing necessary infrastructural facilities & identifying competent faculty *in every dept., to fulfill the "Make in India" and "Atmanirbhar Bharat".*

Research areas identified by the departments

Dept	Area of Research	Dept	Area of Research
CSE	➢ Computer Networks and Information Security ➢ Image Processing and Computer Vision ➢ IoT, Cloud and Ubiquitous Computing	EEE	➢ Power System Applications ➢ Instrumentation & Control
IT	➢ Big Data and Data Analytics ➢ Remote Sensing and GIS	MBA	➢ Finance, Marketing & Human Resource
CE	➢ 3D Concrete Printing	MCA	➢ Data Science and Artificial Intelligence ➢ Cyber Physical Systems
ECE	➢ AI and ML in VLSI design technology ➢ 5G & MIMO Technologies with AI and Cloud	CHEM	➢ Ionic Liquids – synthesis and study of properties ➢ Crystal engineering – applications in pharmaceutical industries
EIE	➢ Signal Processing and Communications ➢ Intelligent systems for Control and Automation		

1) Identification & *subsequent* strengthening of any one major thrust area of *Research in Emerging fields* by providing necessary infrastructural facilities & identifying competent faculty *in every dept., to fulfill the "Make in India" and "Atmanirbhar Bharat".*

Big Data and Data Analytics (IT Dept.):

The proposed Research area: The structured and unstructured large scale data, in various forms (Text Data, Graphs, Images, SQL, NOSQL Data) is analyzed for making strategic decisions for different real time applications - health care, agricultural, business, surveillance, social networks, etc.

Proposed Research work

Healthcare data analytics:

➢ **EHR generation and analysis** using various medical reports like prescriptions, lab test reports, x-rays, scans, etc.

➢ **Automatic disease detection and prediction, recommendation of treatment, Medicine & diet**, etc. by using big data frameworks and AI, ML & Deep learning techniques.

➢ **Real time monitoring of patients** from the data uploaded to the cloud.

➢ **Development of IOT based models** by using different sensors.

1) Identification & *subsequent* strengthening of any one major thrust area of *Research in Emerging fields in every dept., to fulfill the* "Make in India" *and* "Atmanirbhar Bharat" by providing necessary infrastructural facilities & identifying competent faculty

2. Business Analytics:

➢ Customers, Sales, products data and reviews from social networks, data can be analyzed and opinion mining and recommendation systems can developed.

➢ Customer behavior analysis using Big data and Machine learning and Deep learning techniques.

I. Budget: Facilities required - Equipment/ software/Research Laboratory development

Year	Hardware/Software Description	Cost
01	Informatics Cloud services package	Rs. 2,50,000/- for 2 users
02	Cloud era Enterprise version	Rs. 16,00,000/- for 2 years
03	Microsoft Powerbi	Rs. 72,000/- for 2 years

II. Faculty identified/ Faculty recruitment

Faculty identified	
Dr.T.Anuradha	Professor
Dr.G.Kalyani	Associate Professor
Dr.S.SitaKumari	Associate Professor
Dr.S.Suhasini	Associate Professor
Dr.Sk.Fathimabi	Sr.Assistant Professor
Dr.G.Jayalakshmi	Assistant Professor
Mr.Y.Sandeep	Assistant Professor

Additional manpower in the areas of Big Data, Data Analytics, IoT and Cloud Computing.
Professors : 1
Associate Professors : 1
Sr.Assistant Professors : 1
Assistant Professors : 4

III. Collaboration/MoU with outside Institutions / research organizations.

The following institutes are identified.

➢ IIT, Hyderabad
➢ National Institute of Technology, Calicut
➢ National Institute of Technology, AP
➢ Tata Consultancy Services, Hyderabad
➢ Tekcrux pvt Ltd, Hyderabad

**IV. Expected outcomes - publications, patents and innovations, prototypes**

1st year	2nd year	3rd year
➢ Publications-01	➢ Publications-03	➢ Publications-03
➢ Patents-01	➢ Patents-03	➢ Patents-03
➢ Innovations-01	➢ Innovations-02	➢ Innovations-02
➢ Prototypes-01	➢ Prototypes-02	➢ Prototypes-03
	➢ Research Project-01	➢ Research Project-01
	➢ Consultancy-01	➢ Consultancy-02

B) Issues open for discussion

2. Revamp of *"Continuous (Internal) assessment pattern"*

Proposed pattern:

Internal Assessment - 30M
Class tests (4) -   **10**
Sessional Examinations (2) - 15
Presentation / Seminars –   **5**
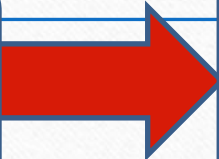
Class tests
5Q*2 M=10 M
Duration – 30min
Knowledge levels
not less than K2
& K3

Sessional
Examinations
-Total - 4Q and
-Choice – 1Q
3Q*5M=15M
Duration – 75/90min
-Knowledge levels
K2 to K5
-Choice Question must
be with same
Knowledge level

Presentation /
Seminars
Based on
rubrics & topic
beyond syllabus

Existing pattern:

Internal Assessment - 30M
Assignment Tests (2) -   **10**
Sessional Examinations (2) - 12
Home assignment –   **5**
Attendance –   **3**
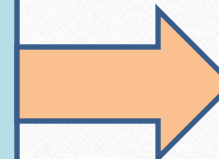
Assignment Tests
2Q*5 M=10 M
Duration – 45min
No guidelines for
Knowledge levels

Sessional
Examinations
Part A – 4 M
(Compulsory)
Part B – 8 M
Total 3Q – One
Choice
2Q*4M=8 M
Duration – 60min
No guidelines for
Knowledge levels

Home Assignment-5M
Faculty choice –
Report submission

Knowledge levels: K1-Remember, K2-Understand, K3-Apply, K4- Analyse, K5- Evaluate & K6 - Create .

2. Revamp of *"Continuous (Internal) assessment pattern"*

Sample Question Paper - Sessional Exam

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS), VIJAYAWADA					
DEPARTMENT :…………..					
Programme: B.Tech.	Year: I	Semester: I		Sessional-I	
A.Y.: 2022-2023	Course Title:			Date:……………..	
Duration: 90 min.	Course code:……….			Max. Marks: 15	
Answer the following questions			**5 x 3 = 15 marks**		
Q.No	Question		Marks	CO	BTL
1.(a)	From Unit-I		3	1	K2
(b)	From Unit-II		2	1	K3
2.(a)	From Unit-I		3	1	K3
(b)	From Unit-II		2	2	K4
3.(a)	From Unit-II		2	2	K3
(b)	From Unit-II		3	2	K4
(OR)					
(a)	From Unit-II		2	2	K3
(b)	From Unit-II		3	2	K4

Knowledge Levels: K2-Understand; K3-Apply; K4-Analyze

Any other item with the permission of Chairman

THANK YOU