K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS)

Annual Quality Assurance Report (AQAR) 2017-2018

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

1. Details of the Institution

Name of the Institution

> Kandula Sreenivasa Reddy Memorial College of Engineering (Autonomous), Kadapa.

Address Line 1

> Tadigotla Village

Address Line 2

> Chintakommadinne Mandal

City/Town

> Kadapa

State

> Andhra Pradesh

Pin Code

> 516003

Institution e-mail address

> ksrmcengg@yahoo.co.in
>
> principal@ksrmce.ac.in

Contact Nos.

> 08562201488

Name of the Head of the Institution:

> Prof. V. S. S. Murthy

Tel. No. with STD Code:

> 08562201488

Mobile:

> 9885230680

Name of the IQAC Co-ordinator:

Dr. G. Hemalatha

Mobile:

9440004404

IQAC e-mail address:

latha.g@ksrmce.ac.in

NAAC Track ID

APCOGN 14724

NAAC Executive Committee No. & Date:

EC/63/A&A16 dated March 23, 2013

Website address:

www.ksrmce.ac.in

Web-link of the AQAR:

www.ksrmce.ac.in/iqac2017-18.html

Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	B	2.60	2013	5 years
2	2nd Cycle				
3	3rd Cycle				
4	4th Cycle				

Date of Establishment of IQAC :

01/09/2012

AQAR for the year

2017-18

Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

i. AQAR 2013-14submitted to NAAC on 21-10-2017
ii. AQAR 2014-15submitted to NAAC on 21-10-2017
iii. AQAR 2015-16submitted to NAAC on 21-10-2017
iv. AQAR 2016-17submitted to NAAC on 21-10-2017

Institutional Status

University   State [ ] Central [ ] Deemed [ ] Private [✓]

Affiliated College   Yes [✓] No [ ]

Constituent College   Yes [ ] No [✓]

Autonomous college of UGC   Yes [✓] No [ ]

Regulatory Agency approved Institution   Yes [✓] No [ ]

Type of Institution   Co-education [✓] Men [ ] Women [ ]

Urban [ ] Rural [✓] Tribal [ ]

Financial Status   Grant-in-aid [ ] UGC 2(f) [✓] UGC 12B [✓]

Grant-in-aid + Self Financing [ ] Totally Self-financing [✓]

Type of Faculty/Programme

Arts [ ]   Science [ ]   Commerce [ ]   Law [ ]   PEI (Phys Edu) [ ]

TEI (Edu) [ ] Engineering [✓]   Health Science [ ]   Management [ ]

Others (Specify)   -------------

Name of the Affiliating University *(for the Colleges)*   Jawaharlal Nehru Technological University Anantapur, Anantapuramu, (A.P)

Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University   UGC

University with Potential for Excellence	---	UGC-CPE	----
DST Star Scheme	---	UGC-CE	----
UGC-Special Assistance Programme	---	DST-FIST	---
UGC-Innovative PG programmes	---	Any other (*Specify*)	---
UGC-COP Programmes	----		

2. IQAC Composition and Activities

No. of Teachers	09
No. of Administrative/Technical staff	03
No. of students	02
No. of Management representatives	01
No. of Alumni	01
No. of any other stakeholder and Community representatives	02
No. of Employers/ Industrialists	02
No. of other External Experts	01
Total No. of members	21

No. of IQAC meetings held

No. of meetings with various stakeholders: No. 04   Faculty 03

Non-Teaching Staff Students -   Alumni 01   Others NIL

Has IQAC received any funding from UGC during the year?   Yes ☐   No ✓

If yes, mention the amount   `--`

Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos `26`   International `-`   National `6`   State `2`   Institution Level `18`

(ii) Themes

Leveraging ICTs for Teaching- learning

Significant Activities and contributions made by IQAC

1. Assisting teachers to use ICTs for teaching. 2. Encouraging the Faculty to do skill development certification courses 3. Training students for skill development certification courses. 4. Deriving insights from the data.

Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

Plan of Action	Achievements
1. To enhance the quality and quantity of Research work and to increase the publication of research papers. 2. To introduce alternate means for course delivery. 3. To introduce industry specific certificate courses.	1. Number of research publications increased and quality also improved. 2. Five subjects are using moodle to help students. 3. Centre for R&D conducted the training programs. 4. Centre for T&P conducted program on campus placement.

Whether the AQAR was placed in statutory body   Yes ✓   No ☐

Management ✓   Syndicate ☐   Any other body ☐

Provide the details of the action taken

Management approved all the decisions of IQAC.

Part – B

Criterion – I

1. Curricular Aspects

Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD				
PG	5		5	5
UG	5		5	5
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	10		10	10

Interdisciplinary				
Innovative				

(i) Flexibility of the Curriculum: Elective option

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	10
Trimester	-
Annual	-

Feedback from stakeholders*   Alumni ✓   Parents ✓   Employers ✓   Students ✓
(On all aspects)

    Mode of feedback :   Online -   Manual ✓   Co-operating schools (for PEI) ---

Please provide an analysis of the feedback in the Annexure

Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Curriculum is generally updated once in every four years meeting the needs of industry and matching with the recent developments in Technology.

Any new Department/Centre introduced during the year. If yes, give details.

-

Criterion – II

2. Teaching, Learning and Evaluation

Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
304	240	30	34	0

No. of permanent faculty with Ph.D.   56

No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
24	-	01	38	0	0	-	-	25	38

No. of Guest and Visiting faculty and Temporary faculty   0   1   0

Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	5	10	17
Presented papers	-	1	-
Resource Persons	1	-	-

Innovative processes adopted by the institution in Teaching and Learning:

- Conducting quiz for every 15 days to improve technical knowledge in their subjects.
- Use of tools such as multimedia and ICT in teaching process is increased.
- Curriculum enhancement.
- E- learning using NPTEL.

Total No. of actual teaching days during this academic year   184

Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)   Single valuation system

No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop   54   200   31

Average percentage of attendance of students   82.5

Course/Programme wise
distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B. Tech.	743	30.82	45.09	8.08	0.114	84.08
CE	175	38.28	45.71	0.57	0.57	85.13
EEE	121	24.79	51.23	8.26	0	84.28)
ME	169	28.40	53.25	2.369	0	84.01
ECE	155	37.42	38.70	6.45	0	82.55
CSE	123	25.20	36.58	22.76	0	84.54
M. Tech.	50	75.22	5.78	0	0	81.02
CE(GTE)	11	63.64	0	0	0	63.64
EEE(PS)	13	76.92	0	0	0	76.92
ME(CAD/CAM)	02	100	0	0	0	100
ECE(DECS)	15	80	6.67	0	0	86.67
CSE(CSE)	09	55.56	22.22	0	0	77.78

How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- IQAC examines various aspects of Teaching Learning process and suggests various modes for improvement by taking the inputs inform of feedback and advises to implement them and reviews periodically.
- Setting instruction quality attributes help teachers to deliver subject content efficiently.
- Setting learning quality attribute help students in learning process.
- Feedback system systemizes the monitoring.
- Grades in examination and co curricular and extracurricular of students are direct and indirect means of teaching and learning process.

Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	-
UGC – Faculty Improvement Programme	02
HRD programmes	-
Orientation programmes	-
Faculty exchange programme	120
Staff training conducted by the university	-
Staff training conducted by other institutions	-
Summer / Winter schools, Workshops, etc.	20
Others	-

Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	59	0	0	0
Technical Staff	54	0	0	0

Criterion – III

3.Research, Consultancy and Extension

Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Faculty members are encouraged to publish research papers in reputed journals such as Scopus indexed and UGC referred journals by providing seed money, grants and creating facilities.
- Promoting interdisciplinary approach to research.
- Conducting product design and development contents for students.
- Taking institution research project to reflect vision/mission of college. Both faculty and students are involved in project.

Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	-	-
Outlay in Rs. Lakhs	-	-	-	-

Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	3	3	-	-
Outlay in Rs. Lakhs	3.25	2.95	-	-

Details on research publications

	International	National	Others
Peer Review Journals	19	15	-
Non-Peer Review Journals	3	7	-
e-Journals	-	-	-
Conference proceedings	8	1	-

Details on Impact factor of publications:

Range 2.5-5.52   Average 4.12   h-index 13   Nos. in SCOPUS 01

Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned	Received
Major projects	-	-	-	-
Minor Projects	3	SLN Technologies Pvt Ltd.,	Rs 1,45,000/-	Rs 50,000/-
	3	Virtualmaze softsys Pvt Ltd	Rs 1,30,000	Rs 35,000/-
	3 Years	Traitsys Technologies Pvt. Ltd	Rs 1,45,000/-	Rs 50,000/-
	1 Year	Veterinary college	1,00,000	1,00,000
	2years	Arun Pro Technologies	Rs.50000	Rs.25000
	2years	cemec technologies	Rs.50000	Rs.25000
Interdisciplinary Projects	-	-	-	-
Industry sponsored				
Projects sponsored by the University/ College	-	-	-	-
Students research projects *(other than compulsory by the University)*	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-		
				-

No. of books published   i) With ISBN No. 2   Chapters in Edited Books

ii) Without ISBN No. -

No. of University Departments receiving funds from

UGC-SAP -   CAS -   DST-FIST -

DPE -   DBT Scheme/funds -

For colleges   Autonomy -   CPE -   DBT Scheme/funds -

INSPIRE -   CE -   Any other (specify) -

Revenue generated through consultancy   110 Lakhs

No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	-	4	-	-	5
Sponsoring agencies	-	KSRMCE	-	-	KSRMCE

No. of faculty served as experts, chairpersons or resource persons | 19 |

No. of collaborations   International | - | National | 04 | Any other | - |

No. of linkages created during this year | 7 |

Total budget for research for current year in lakhs:

From Funding agency | -- | From Management of University/College | 47.6 lakhs |

Total | 47.6 lakhs |

No. of patents received this year

Type of Patent		Number
National	Applied	-
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

No. of research awards/ recognitions   received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
	-		-	-	-	-

No. of faculty from the Institution
who are Ph. D. Guides | 9 |
and students registered under them | 13 |

No. of Ph.D. awarded by faculty from the Institution | - |

No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF [-]   SRF [-]   Project Fellows [-]   Any other [-]

No. of students Participated in NSS events:

University level [01]   State level [01]

National level [-]   International level [-]

No. of students participated in NCC events:

University level [-]   State level [-]

National level [-]   International level [-]

No. of Awards won in NSS:

University level [01]   State level [01]

National level [-]   International level [-]

No. of Awards won in NCC:

University level [-]   State level [-]

National level [-]   International level [-]

No. of Extension activities organized

University forum [-]   College forum [   ]

NCC [-]   NSS [07]   Any other [-]

Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

1. Blood donation camp on 18-10-2017.
2. Tree plantation on 15-08-2017.
3. International Yoga day on 21-06-2017.
4. A rally on ODF (open defecation free) on 05-01-2018.

Criterion – IV
4. Infrastructure and Learning Resources

Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area in acres	35.23	-	Self finance	35.23
Class rooms in sqm.	3919.8	-	Self finance	3919.8
Laboratories in sqm.	5484.0	-	Self finance	5484.0
Seminar Halls in sqm.	1276.3	-	Self finance	1276.3
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	60	6	Self finance	66
Value of the equipment purchased during the year (Rs. in Lakhs)	223.71	122.81	Self finance	346.52
Others	264.66	57.25	Self finance	321.91

Computerization of administration and library

1. Computers are used extensively in administration, library, accounts and examination branch with advanced software.
2. Books in the central library are issued using barcodes.
3. NPTEL facility is available through LAN.
4. Online tests are conducted.
5. Accounts are managed using Tally software.
6. Library is administered using software ECAP.
7. Administration work is managed with Google sheets.

Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	66,233	2,64,93,200/-	1586	6,01,856	67,819	2,70,95,056
Reference Books	12,020	48,08,000/-	300	1,85,000	12,320	49,93,000
e-Books	3,532	12,36,200/-	162	13,500	3694	12,49,700
Journals	282	4,23,000/-	282	4,30,908	564	8,53,908
e-Journals	2,125	2,27,500/-	24	1,30,005	2,149	3,57,505
Digital Database	7,400	37,00,000/-	260	25,000	7,660	37,25,000
CD & Video	3,510	7,02,000/-	120	15,000	3,630	7,17,000
Others (specify)	1	3,00,000/-	---	---	1	3,00,000

Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart -ments	Others
Existing	791	17	64Mbps	5	9	8	9	0
Added	36	1	0	0	-	-	-	-
Total	827	18	64Mbps	5	9	8	9	0

Computer, Internet access, training to teachers and students and any other programme for technology Up gradation (Networking, e-Governance etc.)

- Faculty development programme, orientation program and workshop have been conducted for the faculty members to enhance knowledge on technology up gradation.
- Training for faculty, staff and students on Google G suite collaboration tools.
- Workshops on digital transactions.

Amount spent on maintenance in lakhs:

i) ICT

12.83

ii) Campus Infrastructure and facilities

109.23

iii) Equipments

110.30

iv) Others

62.54

Total :

294.90

Criterion – V
5. Student Support and Progression

Contribution of IQAC in enhancing awareness about Student Support Services

- IQAC initiated several awareness program regarding career opportunities with main emphasis on job opportunities and higher education. Training program on personality development have been introduced to give value addition to their curriculum.
- Publishing handouts on support services.
- Publishing information on support services on college website.
- Placing publicize posters, at vantage points in campus.
- Promoting and supporting student activity groups.

- Progression of students in attendance and academic performance is monitored continually and a well defined mechanism is developed placed in the system. Percentage of attendance of students will be calculated and the names of those who have put up less than 75% will be displayed on all notice boards and also their signatures will be taken. The parents of these students are also informed by sending letters through class teachers.
- Establishing data acquisition processing and information dissemination infrastructure.
- Information sharing with faculty, students, parents and other stakeholders.
- Progressing issues triggering, tracking and escalation system.

(a) Total Number of students

UG	PG	Ph. D.	Others
2670	65	5	-

(b) No. of students outside the state

42

(b) No. of international students

-

	No	%			No	%
Men	2093	76.52	Women		642	23.47

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1414	279	51	1050	-	2794	1416	248	44	1027	-	2735

Details of student support mechanism for coaching for competitive examinations (If any)

- The Training and placement cell is providing coaching to various competitive exams such as Banks PO, Group-II and UPSC and other examinations.
- Training for industry certification.
- Study circles for UPSC and state services.
- Coaching is also given for GATE for students who opt for Higher Education.
- Training for industry certification like AMCAT.

No. of students beneficiaries   2200

No. of students qualified in these examinations

NET	-	SET/SLET	-	GATE	-	CAT	-
IAS/IPS etc	-	State PSC	-	UPSC	-	Others	60

Details of student counseling and career guidance

- Student counseling system is in place. Around 20 students are attached to each faculty and the faculty will provide focused counseling and guidance by interacting with the students at regular intervals. Exclusive career guidance classes are organized by the training and placement cell every year on regular basis.
- Arranging lectures by motivational speakers.
- 30 hours of campus recruitment training in each year for all students.

No. of students benefitted   2200

Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
28	542	430	72

Details of gender sensitization program

- An exclusive women cell is set up and is fully functional and it organizes various programs
  sensitizing students on gender and it has been and has given remarkable result.
- The special needs of girl students are met through appropriate actions.

Students Activities

No. of students participated in Sports, Games and other events

State/ University level   12   National level   1   International level

No. of students participated in cultural events

State/ University level   07   National level   7   International level   -

No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level   20   National level   -   International level   -

Cultural: State/ University level   07   National level   -   International level   -

Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	150	26,70,850
Financial support from government	2107	7,54,92,575
Financial support from other sources	5	26,000
Number of students who received International/ National recognitions	5	1,00,000

Student organized / initiatives

Fairs : State/ University level [01] National level [ ] International level [ ]

Exhibition: State/ University level [01] National level [ ] International level [ ]

No. of social initiatives undertaken by the students [07]

Major grievances of students (if any) redressed: Improve WIFI facilities in hostels, regulators for fans in some of the class rooms.

Criterion – VI

6. Governance, Leadership and Management

State the Vision and Mission of the institution

Vision: To be an internationally renowned centre for excellence in technical and management education with value-driven quality standards and to contribute our might in realizing India's dream of becoming economic super power.

Mission: To impart quality education in engineering, technology and management at undergraduate and post-graduate levels, aiming to achieve the status of best engineering college, thereby cherish the dreams of the founder chairman and the aspirations of the student's community in the region to become world class professionals and technocrats.

Does the Institution has a management Information System

Yes, Management information system is being used in accounts department, administration department and other departments.

Quality improvement strategies adopted by the institution for each of the following:

Curriculum Development

- Required inputs will be taken from various stake holders like companies that visit for placements, experts that visit the college on various occasions, alumni, etc. these inputs are discussed at length in BOS and finalized appropriately.
- A course end survey is conducted at the end of every course and necessary measures are taken. The results of mid exams are mapped with Course Outcomes and the achievement levels are indexed.
- Planned cycles of curriculum review.
- Linking faculty development programs to curriculum design delivery.
- Creating assessment plan and procedures to determine curriculum effectiveness.
- A frame work for optimising local, state and nation standards in curriculum.
- Monitoring curriculum delivery.

Teaching and Learning

- Lesson plan will be prepared in every course and instruction will be delivered adhering to the academic plan. Lesson diary is recorded in the class student attendance register. Instead of listening to the teacher exclusively, students and teachers interact equally.
- Empowering innovation, experimentation and creativity by teachers to effectively utilise new methods of ICTs.
- Maintaining a culture of professionalism, accountability and responsibility amongst teachers.
- Workshops to share good practices involving experimentation, collaboration among faculty and students.
- Designing and conducting bridge courses to help students understand and assimilate institute teaching learning practices.

Examination and Evaluation

- All components in any programme of study are evaluated continuously through internal evaluation and an external evaluation. Internal evaluation is done throughout semester/year in the form of mid examinations and assignments. External evaluation is done at the end of semester/ year in the form of end examination.
- Question paper setters for end examination are from outside the college. Subject experts from our institute prepare the scheme of evaluation, giving guidelines for the examiners for distribution of marks for different points in the question. In case of numerical problems, solution of the problems with distribution of marks for different stages should be given in scheme of marking. Feedback on question paper will be collected from subject experts to improve the quality of questions in future. Evaluation of answer scripts will be done by the external examiners from other colleges and universities.
- The method of evaluation involves coding & decoding of answer scripts to ensure unbiased evaluation. Evaluation process is transparent. Institute communicates the outcome of the evaluation by publishing results on the internet through Institute website.
- Students shall be permitted to request for recounting/ revaluation of the end theory examination answer scripts within a stipulated period after announcement of the results.
- After recounting or revaluation, records are updated with changes if any and the student will be issued a revised memorandum of marks. If there are no changes, the student shall be intimated the same through a letter or a notice.
- Establishing guidelines for faculty members for preparing appropriate list questions.
- Self testing by students.
- Correlating students performance in exam with students feedback on learning objectives.

6.3. 4. Research and Development

- Periodical FDPs are organized to encourage in research work.
- Faculty members are encouraged and supported to publish papers and also present papers in conferences and journals with high impact factor through incentives like travel reimbursement, funding and awards.
- Modernising laboratories with equipments and tools needed for research and product development.
- Establishing linkage with institutes of repute and research labs.
- Reorienting and training faculty members in current research topics.
- Involving students in minor and major research projects.
- Establishing inter disciplinary research groups that work on product development.

Library, ICT and physical infrastructure / instrumentation

- The library has a collection of good number of books meeting the requirement of students and faculty. New titles and volumes of text books are added every year continuously, by allocating required budget to procure books and e-journals.
- Information and Communication Technology has been made an integral part of teaching learning process by converting some of the conventional class rooms into e-class rooms. These rooms have been equipped with LCD projectors, digital boards and audio systems.
- All the departments and divisions are continuously appended with additional physical infrastructure regularly when ever required and also based on the inputs taken from the stakeholders through feedback. Faculty chambers are provided computers with internet facility.
- Providing digital infrastructure for teaching, learning and collaboration.
- Providing physical infrastructure in laboratories with hardware and software tools for teaching, learning and research.
- Providing access to print and digital literature through library services.
- Providing congenial reading and work environment in library.
- Providing training to library staff.

Human Resource Management

- ➢ Self Performance appraisal
- ➢ Salaries are as per norms
- ➢ Annual Increments are based on self appraisal and Merit.
- ➢ Time and attendance are monitored on daily basis
- ➢ FDPs are Conducted to train the newly recruited faculty
- ➢ Several departmental workshops are held to train the faculty and staff to enable them to update their knowledge.
- ➢ IQAC creates awareness among faculty on sponsored research projects and industrial consultancy.

Faculty and Staff recruitment

- Permanent qualified faculty members are recruited to meet statutory requirements.
- Advertisement will be given in leading newspapers for faculty requirement.
- Applications will be screened and shortlisted and all short listed candidates will be called for interviews.
- Staff recruitment is done as per AICTE/UGC norms.
- Ratification of faculty by university selection committee.

Industry Interaction / Collaboration

With constant encouragement by the management, the departments constantly strive to enter into MoUs with the industries to provide summer internships, main projects for students. Industry experts are invited to give seminars on the advanced technology. Interaction with industry helps to provide industrial visits, arranging training programmes to students. Interaction with industry is providing opportunities for consultancy works and research.

Admission of Students

70% of the admissions to UG & PG programmes are by Government and 30% by management. While filling the 30% quota of management seats to make more transparent, publicity is given in all local news papers calling for applications from all the aspiring students. The Management admits candidates for the Management and NRI quota based on merit and should possess first class is optional.

Welfare schemes for

Teaching	1.Fee concession for children of staff. 2. ESI facility for staff. 3. transportation facility. 4. EDLI facility
Non teaching	1.Fee concession for children of staff. 2. ESI facility for staff. 3. transportation facility. 4. EDLI facility
Students	Cash awards for merit students. Health centre provided, free treatment and medicine, Xerox facility, transportation facility

Total corpus fund generated

7,04,34,228

Whether annual financial audit has been done Yes ✔ No ☐

Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	yes	CA	yes	Academic council
Administrative	yes	CA	yes	Head of the departments

Does the University/ Autonomous College declare results within 30 days?

For UG Programmes   Yes ✓   No ☐

For PG Programmes   Yes ✓   No ☐

What efforts are made by the University/ Autonomous College for Examination Reforms?

- End examination question paper setters are from other colleges and universities.
- Examiners for end examinations are 50% from our college and 50% from other colleges and universities.
- Evaluation process involves coding & decoding of answer scripts.
- Recounting and revaluation facility is provided to student.
- The results are declared online.
- CGPA system is introduced for the award of division.

What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

- University gives freedom to design academic calendar to deliver instruction, conduct examinations and also declare results.
- The institution is given freedom to revise the scheme and regulations when required.
- The institution is given autonomy to have its own courses under electives as demanded from time to time.
- To permit them to issue their own provisional, migration and other certificates.

Activities and support from the Alumni Association

The college has a registered Alumni association and functions actively. It is involved in:
1. Giving inputs in design of curriculum.
2. Supports in providing internships and projects to students.
3. Extends support in providing training to students giving them exposure to up-coming changes in technologies.
4. Helps the students in providing training to students for placements by conducting mock interviews, etc.
5. Association meetings are conducted regularly both within and also outside the campus.

Activities and support from the Parent – Teacher Association

Participation of parents is solicited in design and delivery of curriculum. They are continuously kept informed about the progress of their wards by communicating with them through their mobile phones and also writing e-mails when ever seems necessary.

Development programmes for support staff

- Training programmes are conducted on regular basis either by the faculty or by the technical people from the equipment / instruments suppliers to up-grade their skills in handling and maintaining them in laboratories.
- Adequate training and instructions are given on regular basis particularly when ever laboratory curriculum is changed meeting the requirements.
- Academic / study leaves are granted to encourage higher education.

Initiatives taken by the institution to make the campus eco-friendly

Some of the initiatives taken by the institution to make the campus eco-friendly are plantation drives, rain harvestings, save energy campaigns, save water campaigns, Janma bhumi programmes etc.

Criterion – VII

7. Innovations and Best Practices

Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Industry Centric Research Projects.
- ICT based learning tools.

Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- Established systems laboratory.
- Android app development laboratory.
- Robotics laboratory.

Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

1. Framework for instruction delivery fostering effective knowledge transfer
2. **H**arnessing **R**esearch and **I**nnovation ecosystem for **S**tudent **E**mpowerment (H-RISE)

(details are in annexure II)

Contribution to environmental awareness / protection

- Adequate green belt is developed.
- World Environmental day, World Green day, International Ozone layer Day, etc., are organized and these opportunities are utilized to bring awareness about Environment.
- Along with this students study Environmental studies as course in their curriculum and learn adequately about need for the environmental awareness.

Whether environmental audit was conducted?   Yes ☐   No ✓

Any other relevant information the institution wishes to add. (for example SWOT Analysis)

1. Efforts would be made to apply and get sanction with more funded research projects.
2. To improve the quality of research work by increasing the number of publications.
3. To increase the number of industry internships encouraging students to take-up live projects.

8. Plans of institution for next year

1. To improve the number of students with certification courses
2. To increase research activity.
3. To extend community related activities by coordinating with local NGOS/Agencies /Institutions.
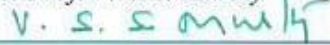

Name: Prof. G. Hemalatha

Signature of the Coordinator, IQAC

Co-ordinator
Internal Quality Assurance Cell (IQAC)
KSRM College of Engineering
Kadapa - 516 003

Name: Prof. V. S. S. Murthy

PRINCIPAL
Signature of the Chairperson, IQAC
K.S.R.M. COLLEGE OF ENGINEERING
KADAPA - 516 003. (A.P.)

***

Academic Calendar for B.Tech. II Sem.(R15) - 2017-18
00O00

The following is the Academic Calendar for B.Tech II Sem.(R15) for the year 2017-18.

Commencement of class work	**28-12-2017**	
I Spell of Instructions	28-12-2017 to 23-02-2018	40 Days
I mid-term examinations	26-02-2018 to 03-03-2018	6 Days
II Spell of Instructions	05-03-2018 to 20-04-2018	35 Days
II mid-term examinations	23-04-2018 to 28-04-2018	6 Days
Preparation and Practicals	30-04-2018 to 05-05-2018	6 Days
End Examinations	07-05-2018 to 18-05-2018	10 Days
Commencement of Class work for B.Tech. III Sem.(R15)	20-06-2018 (WEDNESDAY)	

Academic Calendar for B.Tech. III & V Sem.(R15) & IV – I (R14)-2017-18
00O00

The following is the Academic Calendar for B.Tech III & V Sem.(R15) and IV Year I Sem.(R14) for the year 2017-18.

Commencement of class work	**28-06-2017**	
I Spell of Instructions	28-06-2017 to 18-08-2017	40 Days
I mid-term examinations	19-08-2017 to 26-08-2017	6 Days
II Spell of Instructions	28-08-2017 to 20-10-2017	38 Days
II mid-term examinations	21-10-2017 to 27-10-2017	6 Days
Preparation and Practicals	28-10-2017 to 03-11-2017	6 Days
End Examinations	06-11-2017 to 18-11-2017	11 Days
Commencement of Class work for B.Tech. IV & VI Sem.(R15) & IV Year II Sem.(R14).	27-11-2017 (Monday)	

Academic Calendar for B.Tech. IV & VI Sem.(R15) & IV – II (R14)-2017-18

00O00

       The following is the Academic Calendar for B.Tech IV & VI Sem.(R15) and IV Year II Sem.(R14) for the year 2017-18.

Commencement of class work	**27-11-2017**	
I Spell of Instructions	27-11-2017 to 29-01-2018	42 Days
I mid-term examinations	30-01-2018 to 05-02-2018	6 Days
II Spell of Instructions	06-02-2018 to 30-03-2018	38 Days
II mid-term examinations	02-04-2018 to 07-04-2018	6 Days
Preparation and Practicals	09-04-2018 to 14-04-2018	6 Days
End Examinations	16-04-2018 to 27-04-2018	11 Days
Commencement of Class work for B.Tech. III & V Sem. & VII Sem.(R15) for 2018-19	20-06-2018 (Wednesday)	

Academic Calendar for B.Tech. I Sem.(R15) - 2017-18

00O00

       The following is the Academic Calendar for B.Tech I Sem.(R15) for the year 2017-18.

Commencement of class work	**28-07-2017**	
I Spell of Instructions	28-07-2017 to 06-10-2017	47 Days
I mid-term examinations	09-10-2017 to 16-10-2017	6 Days
II Spell of Instructions	17-10-2017 to 24-11-2017	28 days
II mid-term examinations	27-11-2017 to 04-12-2017	6 Days
Preparation and Practicals	05-12-2017 to 11-12-2017	6 Days
End Examinations	12-12-2017 to 22-12-2017	10 Days
Commencement of Class work for B.Tech. II Sem.(R15)	28-12-2017 (THURSDAY)	

K.S.R.M. COLLEGE OF ENGINEERING, KADAPA
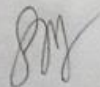## (AUTONOMOUS)

CIRCULAR

Sub.: Academic Schedule - Reg.

The following is the Academic schedule for M.Tech.-I Sem.(R14) for the academic year 2017-18.

COMMENCEMENT OF CLASS WORK	**05-10-2017**
FIRST UNIT OF INSTRUCTIONS	05-10-2017 to 30-11-2017
FIRST MID-TERM EXAMINATIONS	02-12-2017 to 08-12-2017
SECOND UNIT OF INSTRUCTIONS	11-12-2017 to 02-02-2018
LAST DAY OF INSTRUCTIONS	02-02-2018
SECOND MID-TERM EXAMINATIONS	05-02-2018 to 12-02-2018
PREPARATION AND PRACTICALS	13-02-2018 to 20-02-2018
END EXAMINATIONS	21-02-2018 to 03-03-2018
COMMENCEMENT OF CLASS WORK FOR M.TECH-II SEM.(R14)	12-03-2018 (MONDAY)

V.S.S. Murly

PRINCIPAL

Copy to:
Director's Table
Principal's Table
HODs of CE, EEE, ECE, ME, CSE
Controller of Exams
P.A to Principal
Accounts Section
Academic Section
Website incharge
Notice Board

K.S.R.M. COLLEGE OF ENGINEERING, KADAPA (AUTONOMOUS)

CIRCULAR

Sub.: Academic Schedule - Reg.

The following is the Academic schedule for M.Tech.-II Sem.(R14) for the academic year 2017-18.

COMMENCEMENT OF CLASS WORK	12-03-2018
FIRST UNIT OF INSTRUCTIONS	12-03-2018 to 04-05-2018
FIRST MID-TERM EXAMINATIONS	05-05-2018 to 11-05-2018
SUMMER VACATION	14-05-2018 to 02-06-2018
SECOND UNIT OF INSTRUCTIONS	04-06-2018 to 28-07-2018
LAST DAY OF INSTRUCTIONS	28-07-2018
SECOND MID-TERM EXAMINATIONS	30-07-2018 to 04-08-2018
PREPARATION AND PRACTICALS	06-08-2018 to 10-08-2018
END EXAMINATIONS	13-08-2018 to 28-08-2018
COMMENCEMENT OF CLASS WORK FOR M.TECH-III & IV SEM.(R14) (ACADEMIC YEAR 2018-19)	03-09-2018 (MONDAY)

V. S. S. Murty
PRINCIPAL

PRINCIPAL
K.S.R.M. COLLEGE OF ENGINEERING
KADAPA-516 003. (A.P.)

Copy to:
Director's Table
Principal's Table
HODs of CE, EEE, ECE, ME, CSE
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Website in-charge
Notice Board

K.S.R.M. College of Engineering

(AUTONOMOUS), KADAPA-516003
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Accredited by NAAC of UGC
ESTD-1980   An ISO 9001 : 2008 & 14001 : 2004 Certified Institute

ALUMNI FEEDBACK FORM

Name of the Alumni : A. Surya Narayana
Branch   : CE
Year of passed out   : 2014

PROFESSIONAL DETAILS

Organization Name : Surya Interias
Designation   : Manager
Joined Year   : 2010

Dear Alumni, Please give your overall assessment of our Institute academics. Please rate us on following criterion:

5- Very Good ,   4 - Good,   3- Fair,   2- Satisfactory   1-Unsatisfactory

S.No	Details	5	4	3	2	1
1	Infrastructure & Lab facilities	✓				
2.	Faculty	✓				
3.	Library	✓				
4.	Environment		✓			
5.	Project Guidance	✓				
6.	Quality of support material		✓			
7.	Training & Placement		✓			
8.	Canteen Facilities	✓				
9.	Hostel Facilities	✓				
10.	Overall Rating of the Institute	✓				
11.	Alumni Association/ Network of Old Friends		✓			

Please suggest any skills you want our Institute should focus on for grooming of students. All of your suggestions are welcome.

1. Relevance of curriculum in your Job:

    - Satisfied with the curriculum of JNTU, and also useful for my profession.

2. Need any change in curriculum and syllabi:

    Not necessary

3. Improvements in teaching and learning Process:

    Realtime scenarios need to be discussed with Students.

4. Have you learned the basic concept through your Project?

    Yes

5. Any other suggestions/comments:

    Give due emphasis to extra curricular activities.

    Signature

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EMPLOYER SURVEY

As part of enhancement of quality of K.S.R.M. College of Engineering, we request you to spare a few minutes to complete this brief questionnaire in respect of the following Alumni of KSRMCE. We are looking for your opinion in the following areas. Your participation is greatly appreciated.

Alumni Information

Name : Smt A. Venkata Padmaja

Designation : Asst. Professor

Branch : E.E.E.

Roll No. : 304385

Year of graduation : 2008

Mobile number : 9704668195

Email ID : paddu.avp @gmail.com
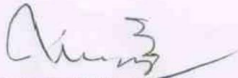
1. How satisfied are you with the performance of our graduates?   [b]
   (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

2. How satisfied are you with the leadership qualities of our graduates?   [b]
   (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

3. How satisfied are you with the conduct of our graduates?   [a]
   (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

4. How best our graduates resolve the engineering issue in social context?   [c]
   (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

5. Is our graduate able to design the circuits to reach the global solutions?   [c]
   (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

6. Is our graduate able to design or develop system which protect environment? [C]
   (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

7. How far our graduates are ethical? [a]
   (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

8. Is our graduate can handle the team? [b]
   (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

9. How much effectively our graduate communicate with clients? [a]
   (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

10. Is our graduate is capable to design the systems to face the contemporary issues? [b]
    (a) Very Good   (b) Good   (c) Satisfactory   (d) Not Satisfactory

Name of the Employer: N. BALA VENKATA MUNI

Designation   : H.O.D, EEE dept.

Name of the Organization   KLM COLLEGE OF ENGINEERING FOR WOMEN

Signature of Employer
HEAD
Dept. of Electrical & Electronics Engineering
K.L.M. College of Engineering for Women
KADAPA - 516 003. (A.P.)

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STUDENT FEEDBACK FORM

Year / Semester   : $\overline{IV}$ / I   Branch : ME

1. Course objective was clear   : Yes / No

2. What are the strength of the curriculum   :

Use full for GATE, and other Compitedthe Exam.

3. Is the curriculum clear and concise   : Yes / No

4. Reference Books / material was easily available   : Yes / No

5. Does the curriculum contribute in resolving research questions / problems: Yes / No

6. By what percentage the curriculum meets the industry needs   : 70%

7. Suggestion to improve the curriculum as per the industry needs   :

More Industrial vAit are required

8. Suggest the new topics to be included in the syllabus   :

9. Any other suggestions for improvement of the curriculum   :

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Dear Parent

The KSRMCE has been established in 1980 provides more than just an education. It provides all facilities for its students to become professionals and entrepreneurs. Over the years the college has attracted students reaffirming the trust of the parents despite numerous handicaps. Here are some of the questionnaire for giving feedback about our institute and its system.

PARENT FEEDBACK FORM

Name of the Parent   : S. Masterafah

Present Postal Address   : 91109, Nallogullapalli (V),
Kalakada (MD), chittoor (Dt).

Mobile Number   : 8142778253

Name of the student   : S. Naveen Kumar

Year & Branch   : IV th, ECE

1. Are you satisfied with the student discipline of the college : Yes̲ / No

2. Does your ward / Institute regularly informs you about performance : Yes̲ / No

3. Are the faculty inform about your ward regularly   : Yes̲ / No

4. Are you satisfied with the examination system adopted in the institute: Yes̲ / No

5. Are you satisfied with the quality of teaching offered by the college : Yes̲ / No

6. The extent to which the following facilities of KSRM satisfies to you:

Hostel ✓	Library ✓	Transport ✓
Medical	Internet	Canteen ✓
Counselling & Guidance	Extra curricular	

7. Please give your valuable suggestions for improvement of college.

S. మనోహర

Signature of the Parent

Annexure II
Best Practice - I

Title of the Practice:
Framework for instruction delivery fostering effective knowledge transfer
Goals:
- To ensure that courses offered to students are allotted to competent faculty members who have adequate expertise and experience to teach the course and to appoint a mentor for each course.
- To ensure that the faculty member, well ahead of the beginning of the semester, prepare a set of course objectives and outcomes, adequate study material, presentation material, videos, software tools, lesson plan, question bank with key under the guidance of the mentor and get approved by HOD/Principal.
- To monitor course delivery continuously during the progress of the semester, based on the feedback/input given by the stakeholders.
- To put a system in place for measuring the attainment of the intended course outcomes quantitatively and qualitatively.
- To record and make available the experience and hurdles faced by the faculty in delivering the course, to other faculty who will be teaching the course in the subsequent years.

The Context:
The mission of the College is to prepare the students for future. This entails high quality instruction delivery supported by allied activities like research, industry-institute interaction etc. It is the responsibility of the College to provide systematic support to the faculty members so that they are properly equipped to meet the demands of the instruction. In this context, developing a framework for instruction delivery and benchmarks for measuring the attainment of the outcomes quantitatively and qualitatively are essential. This practice is designed to address this issue. Appropriate remedial steps are taken for continuous improvement.

The Practice:
The teaching of students at all levels is to be distributed among faculty members without regard to rank or seniority as such. Basic-level courses are not deemed the exclusive province of the junior faculty nor advanced courses the unique domain of the senior faculty. It is important that students, including freshmen and sophomores, have significant opportunities to learn from eminent faculty. And junior faculty members should not be called upon to bear a disproportionately heavy share of the responsibility for large and pedagogically demanding basic-level courses. This is not to say that teaching assignments should be unrelated to research interests or teaching strengths. On the contrary, the marriage of teaching and research
greatly enhances both enterprises. Comparative advantages and strengths are an appropriate consideration in allocating teaching responsibilities. Naturally, teachers should be flexible enough to offer courses outside narrow fields of specialization

A skill matrix is prepared taking into account faculty specialization, performance of the faculty in the last two years and professional experience. From the skill matrix, appropriate faculty is identified for teaching each course in consultation with the faculty. The faculty with vast teaching experience and expertise is identified as a mentor for the course. Mentor of a particular course guides the faculty members in defining the course objectives and course out comes based on the syllabus and assist them in preparing lesson plan, notes on lesson and other adequate study material, presentation material, videos, software tools and question bank with key. Well

ahead of the beginning of the coursework, it is ensured that teachers are well equipped to handle the courses assigned to them.

As the semester progresses, courses are delivered as per the lesson plan. Periodically the mentor of a particular course interact with the faculty offering the course and ensure that the delivery is in line with the lesson plan. In case of any deviation, suitable measures are taken to bring it in line with the lesson plan. On last Saturday of every month the HOD reviews the progress of the course delivery.

To ensure the quality and effectiveness of the course delivery, periodic feedback is collected and appropriate measures are taken as detailed below:

- Feedback from the students collected in the Class Committee meeting arranged after the first and second internal assessment tests (Unit tests).
- Once in a semester, general counseling is arranged. During general counseling, each student is counseled by a senior faculty belonging to any other department so that, the student feels free to express his difficulties and issues concerning the teaching learning process.
- Once in a semester a parent-teacher meeting is arranged to get parents' views also. For all the concerns raised appropriate actions are taken. Performance of the students in the internal assessment tests is taken as an indicator of attainment of course outcome. In this regard, the weightage given for different course outcomes and the performance of the individual students in each course outcome are evaluated and quantitative assessment of attainment of course outcome is made after every assessment tests. It serves as guideline to make sure whether the intended outcomes are achieved or not. Wherever the attainment is low, appropriate corrective measures are taken. At the end of the semester, the teacher prepares a comprehensive end semester course review form which provides input for the teachers who will be handling the same course in the next term.

Problems Encountered and Resources Required:

A great deal of time is to be set apart by all the faculty members in monitoring, assessment and relevant documentation, apart from the time spent for the classroom teaching.

Best Practice – 2

Title of the Practice:

Harnessing **R**esearch and **I**nnovation ecosystem for **S**tudent **E**mpowerment (H-RISE)

Goals:

- To utilize the resources, both equipment and knowledge base, available at Center for Research and Innovation for student projects
- To foster system approach for student projects
- To encourage interdisciplinary student projects
- To train and enable students in industry related skills

Context:

An essential component of the mandate of KSRM College of Engineering (KSRM) is to create and sustain an atmosphere of intellectual excitement, a climate of inquiry and innovation among

students and faculty. The Center for Research and Innovation (CRI) is the platform for the conduct of research and scholarly activity and to promote applied research and innovation KSRM has invested heavily in equipment and creating knowledge base, apart from regular laboratories in departments. Faculty are trained and emancipated to undertake scholarly activity at CRI. The CRI mimics the corporate industry work culture and ethics.

In this context, KSRM initiated a process wherein CRI will empower students to undertake industry-grade projects utilising the available resources with it.

Practice:

The basic premise of H-RISE program is students' experiential learning. The students will be trained in domain and personality skills before inducted into the projects. A robust mentoring system ensures high project completion success rate.

Physical facilities: State of art physical infrastructural facilities are available at CRI. Some of the resources are:

1.Computers with Intel Core i7 processors, 8 GB RAM, 19" monitors, with dual boot, Windows 10 and Ubuntu, facility (30 Nos)

2.Measuring and Testing equipment including 50 MHz digital storage oscilloscope, 3 channel DC power supply, 3 GHz spectrum analyser, 200 MHz mixed signal oscilloscope, multimeters, 25 MHz function generator, high-end soldering and desoldering station with accessories, ESD workbench

3.CAD workstation including HP Z440 workstation with Xeon quad core processor with 8 GB RAM, NVIDIA GPU with 4GB RAM, 23" monitors, and A1 size color plotter.

4.Fabrication facility: 300 x 300 x 300 3D printer with accessories

5.Development tools including National Instruments LabVIEW software (40 licenses) with data acquisition systems, ANSYS, STAAD Pro along with huge collection of open source software; development boards like Raspberry Pi, NodeMCU, Arduino along with various sensors; Robotic training kits.

6.Other infrastructure including UPS, activity rooms to train 30/40 students at a time, 24x7 internet connectivity, LCD projectors Knowledge base of CRI include expertise of faculty from all departments, outside industry experts, alumni, and hired corporate trainers

The Process:

1.Screening and selection: At the beginning of academic year applications are invited from students for training and induction into projects. About 60 students are selected from all branches after screening and interview

2.Training: All students are given basic training in C and Python programming languages, and personality skills. This is followed by specialized training meeting the requirements of projects undertaken

3.Projects: Students are grouped into batches and encouraged to research and formulate their projects under the guidance of mentors

4.Mentoring: Each batch is assigned to faculty member who mentors the students

5.Funding: Students are permitted to utilise the inhouse resources. Any expenditure towards components, fabrication, travel etc are met by the CRI after due approvals and processing

6.Monitoring: The progress of projects is monitored by Coordinator, CRI.

Evidence of Success:

The success of the practice is ascertained by qualitative and quantitative measures. Quantitative measures are, on yearly basis,

1.Number of students involved in the practice

2.Number of successful projects

3.Number of training programs conducted

The qualitative measures include
1.Perception and feedback from students on the practice
2.Perception and feedback from faculty
3.Perception of outside world

List of Recent Projects completed by Students

Students Project Description

K. Bharath Kumar Reddy (139Y1A0533)

L. Raviteja Naidu (139Y1A0536)

M. Lokesh (139Y1A0537)

T. Sanjaydeep (129Y1A05D1)

Modern Farming

This project aims at development of mobile app for aspects of decision making for Market price details, selection of pesticides and also the weather reports. Former this mobile app free of cost. This will effectively help sell their product in market and earn higher profits.

Mentor: V Chandra Sekhar

K. Ashok (129Y1A0343)

G. Reddy Sai Kishore (129Y1A0331)

A. Narasimha Murthy (129Y1A0302)

D. Govardhan Reddy (129Y1A0325)

B. Jaya Prakash (129Y1A0315)

Fabrication of Unmanned Defense and Multi-purpose An unmanned defence Robot which is highly suitable Applications. The goal of the projects to implement the way of analyzing Robot. The FM receiver circuit controls Mentor: L. Titus

S. Divya (30903220)

K. Mohan Reddy (30903260)

A. Pavan Kumar Reddy (30903268)

A. Naresh (30903260)

M. Narasimha Naik (30903259)

Solar Powered Electric Bicycle

In order to conserve Energy, It is intended to take sustainable green future. In this project a solar power developed by using solar energy which is a natural resource. bicycle one can travel faster for long time without using Mentor: K. Rama Mohan Reddy.

8. Contact Details

Name of the Principal: Dr. V. S. S. Murthy

Name of the Institution: KSRM college of Engineering

City: kadapa

Pin Code: 516003

Accredited Status: Accredited with "B" Grade

E-mail: principal@ksrmce.ac.in

Mobile: 9885230680