



# ACS College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka & Affiliated to Visvesvaraya Technological University, Belgaum)

Sponsored by : MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST



**ACS College of Engineering, Bangalore, Karnataka  
NAAC Accreditation(Cycle 01)**

**Vide letter no: NAAC/WH/Cert-ANA/EC(19<sup>th</sup> SC)/6.1/2017 Dt:27/01/2017**

**Validity up to : 01/12/2021**

**Institution Track ID : KACOGN24433**

## **ANNUAL QUALITY ASSURANCE REPORT(AQAR)**

**Submitted to**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
Bangalore – 560 072**

**By**

**ACS college of Engineering  
Bangalore – 560 074**

**For the Academic year 2017 – 18  
(July 2017 – June 2018)**

**Submitted on 30-06-2018**

### **Campus**

# 207, Kambipura, Mysore Road, Bengaluru - 560 074  
Ph : 080 - 28437955 / 28437855, Fax: 080 - 28437989  
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Ref:- ACSCE/NAAC – AQAR/2017-18/036-A/ 9268

Date : 30/06/2018

To,

**Dr. Sujatha.P.Shandbhag**  
Deputy Advisor,  
National Assessment and Accreditation Council,  
Post Box No.1075,  
Nagarbhavi,  
Bengaluru – 560072.

Respected Madam,

**Sub:- Submission of Annual Quality Assurance Report(AQAR) of ACS College of Engineering, Bengaluru, Karnataka for the academic year 2017-18- Reg.**

**Ref:- 1. NAAC Accreditation letter no: NAAC/WH/Cert-ANA/EC(19<sup>th</sup> SC)/6.1/2017 Dt:27/01/2017 (Validity up to : 01/12/2021)**  
**2. Our Institution Track ID : KACOGN24433**

With reference to the above subject and reference cited, we submit herewith the Annual Quality Assurance Report (AQAR) of ACS College of Engineering, Bengaluru, Karnataka in the prescribed format as desired by NAAC for the academic year 2017-18. Also the same AQAR report has been uploaded into the institutional portal through web link as: <http://www.acsce.edu.in/acsce/wp-content/uploads/2018/06/AQAR2017-18.pdf>

This is submitted for your kind information and oblige.

Thank you Madam,

Yours Faithfully

  
Principal  
(Dr. M S Murali)

Principal

**A.C.S. College of Engineering**  
Kambipura, Mysore Road, Kengeri Hobli  
Bangalore - 560 074

Encl:- As stated above.

Campus

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**PART - A**

# **INSTITUTION DETAILS**

## I. Details of the Institution

1.1 Name of the Institution

A.C.S. COLLEGE OF ENGINEERING

1.2 Address Line 1

207, Kambipura

Address Line 2

Mysore road

City/Town

Bangalore

State

Karnataka

Pin Code

560074

Institution e-mail address

principal@acsce.edu.in

Contact Nos.

09900028024

Name of the Head of the Institution:

Dr. M. S. Murali

Tel. No. with STD Code

: 080 – 28437956

Mobile

: 09900028024

Name of the IQAC Co-ordinator

: Prof. S. Kavitha, Assistant Professor, Dept. of Civil

Mobile:

9916412348

IQAC e-mail address

: qualitycell@acsce.edu.in

1.3 NAAC Track ID

: KACOGN 24433

**1.4 NAAC Executive Committee No. & Date:**

(For Example EC/32/A&A/143 dated 3-5-2004.  
This EC no. is available in the right corner- bottom  
of your institution's Accreditation Certificate)

EC(SC)/19/A&A/6.1 Dated : 02.12.2016

**1.5 Website address:**

www.acsce.edu.in

**Web-link of the AQAR:**

http://www.acsce.edu.in/acsce/wp-content/uploads/2018/06/AQAR2017-18.pdf

**1.6 Accreditation Details**

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.10	2016	1/12/2021
2	2 <sup>nd</sup> Cycle	-	-	-	-
3	3 <sup>rd</sup> Cycle	-	-	-	-
4	4 <sup>th</sup> Cycle	-	-	-	-

**1.7 Date of Establishment of IQAC :**

DD/MM/YYYY

06/04/2015

**1.8 AQAR for the year :**

2017-18

**1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)****Institution was accredited in the year of December 2016**

- i. AQAR AQAR 2016-17 submitted to NAAC through mail on 16-10-2017  
 ii. AQAR \_\_\_\_\_ NA \_\_\_\_\_ (DD/MM/YYYY)  
 iii. AQAR \_\_\_\_\_ NA \_\_\_\_\_ (DD/MM/YYYY)  
 iv. AQAR \_\_\_\_\_ NA \_\_\_\_\_ (DD/MM/YYYY)

**1.10 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

#### 1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

-

#### 1.12 Name of the Affiliating University (*for the Colleges*)

Visvesvaraya Technological University,  
Jnana Sangama, Belagavi - 590018  
Karnataka.

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

Autonomy by State/Central Govt. / University  State

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**

2.1 No. of Teachers	<input type="text" value="10"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="2"/>
2.3 No. of students	<input type="text" value="1"/>
2.4 No. of Management representatives	<input type="text" value="1"/>
2.5 No. of Alumni	<input type="text" value="1"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="1"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="1"/>
2.8 No. of other External Experts	<input type="text" value="1"/>
2.9 Total No. of members	<input type="text" value="18"/>
2.10 No. of IQAC meetings held	<input type="text" value="15"/>

2.11 No. of meetings with various stakeholders: Total No.  Faculty

Non-Teaching Staff  Students  Alumni  Others

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

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos.  International  National  State  Institution Level

(ii) Themes

- Outcome Based Education
- Accreditation & Assessment
- Research Funding Schemes

## 2.14 Significant Activities and contributions made by IQAC

1. Academic audit of all the departments
2. Monitoring the accreditation activities
3. Organizing the FDP to teaching and non teaching faculty members.
4. Conducted periodic meeting / discussions with faculty members to collate the data pertaining to various activities of the departments.
5. Encouraging departments to hold seminars / workshops / conferences.
6. Departmental IQAC coordinators are nominated to maintain cumulative record of all the departmental activities and achievements to monitor progress.
7. E-Waste management, Green Audit and Energy saving are established.

## 2.15 Plan of Action by IQAC/Outcome

The plan of action is planned 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
<ul style="list-style-type: none"> <li>• Faculty to improve the numbers and quality of faculty Research Publication in reputed Journal/Conference.</li> <li>• Proposal and plan to conduct National and International Level seminars, conferences, workshops, symposiums, FDPs etc.</li> <li>• Plan to enhance Industry Institute Interaction activities</li> <li>• Enhancing Library Resources</li> <li>• Plan for Industry Oriented Placement Training.</li> <li>• MoU with Intel and Robert Bosch are planned.</li> <li>• Centre of Excellence (COE) is planned to start with IBM, Bangalore.</li> <li>• Yuva Yuva – Skill Development programme by Karnataka State government programme is planned to start.</li> </ul>	<ul style="list-style-type: none"> <li>• Faculty is able to achieve good number of paper publications.</li> <li>• International and National Level Conference, Workshops, Seminars, Symposiums, FDPs, Intercollegiate Technical Fest &amp; Techno cultural fest were conducted across the departments.</li> <li>• Regular Industry-Institute-Interaction has been conducted by inviting Technical Experts to deliver lectures to the students, to update their knowledge.</li> <li>• In order to enhance the library resources, many books were added as per norms.</li> <li>• Technical and Soft skill training were provided to students and student placement record has been improved.</li> <li>• Centralized internal examination facility is implemented.</li> <li>• Centralized Research Laboratory (CRL) is established.</li> </ul>

\* Academic Calendar of the year is attached as Annexure-II.

2.16 Whether the AQAR was placed in statutory body      Yes       No

Management       Syndicate       Any other body

Provide the details of the action taken

The management and IQAC members approved the Annual Quality Assurance Report (AQAR) after a discussion along with the activities under the cell. The follow-ups were done periodically through the meetings by IQAC and department level.

**PART - B**

# **CRITERION DETAILS**

## CRITERION – I

### CURRICULAR ASPECTS

#### 1.1 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	10	--	10	65
PG	04	--	04	
UG	07	01	08	
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	21	01	22	65
Interdisciplinary	-	-	-	02
Innovative	-	-	-	-

#### 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options

#### (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	All Programmes
Trimester	-
Annual	-

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

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

\* The online feedback screen shot is attached in the Annexure-III

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

No, Affiliated to University

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

Yes.

The **B.E. - Aerospace Engineering** department was introduced in this year of 2017-18.

## CRITERION – II

### TEACHING, LEARNING AND EVALUATION

2.1 Total No. of permanent faculty

Total	Assistant Professors	Associate Professors	Professors	Others
131	75	17	15	24

2.2 No. of permanent faculty with Ph.D.

32

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

Assistant Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
4	-	-	-	-	-	-	-	-	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

52

24

-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	49	53	77
Presented papers	75	16	11
Resource Persons	6	7	3

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- 24 x 7 Wi-Fi enabled campus providing for technology access.
- Students participation in the summer/winter internship programme.
- Seminars, Guest lectures, Mini projects and conferences for improving the skills of the students.
- NPTEL videos support for learning the basic and latest subjects with good knowledge.
- E-library and E-journals resources.
- Industrial visits & In-plant training.
- Smart Class room facility is established.

2.7 Total No. of actual teaching days during this academic year 165

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions) As per VTU Norms

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

4	4	4
---	---	---

2.10 Average percentage of attendance of students 85%

2.11 Course/Programme wise Distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				Pass %
		Distinction %	I %	II %	III %	
AE	179	29.61	36.31	8.92	-	75.42
BME	107	56.07	19.63	0.93	-	75.70
CIVIL	182	14.29	21.98	14.29	-	50.55
CSE	201	47.76	24.38	3.98	-	77.61
ECE	130	26.62	32.31	13.08	-	70.00
EEE	55	7.27	30.91	14.55	-	52.73
MECH	153	15.69	30.72	13.07	-	59.48

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

1. IQAC conducts meetings & adopts suitable methods for improvement to review the quality of teaching.
2. Evaluation of teachers by the students, Self Evaluation of the teachers as per the institution norms.
3. Internal Assessment Examinations as per Visvesvaraya Technological University Rules, Class Tests, Seminars, Oral Tests.

### 2.13 Initiatives undertaken towards faculty development

<b>Faculty / Staff Development Programmes</b>	<b>Number of faculty benefitted</b>
Refresher courses	173
UGC – Faculty Improvement Programme	27
HRD programmes	8
Orientation programmes	560
Faculty exchange programme	24
Staff training conducted by the university	15
Staff training conducted by other institutions	38
Summer / Winter schools, Workshops, etc.	74
Others	13

### 2.14 Details of Administrative and Technical staff

<b>Category</b>	<b>Number of Permanent Employees</b>	<b>Number of Vacant Positions</b>	<b>Number of permanent positions filled during the Year</b>	<b>Number of positions filled temporarily</b>
Administrative Staff	28	-	10	-
Technical Staff	114	-	20	-

## CRITERION – III

### RESEARCH, CONSULTANCY AND EXTENSION

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

Good research practices are shared with faculty members and students at different platforms. IQAC sensitised the faculty members towards the need to apply for minor research projects to the funding Agencies. Steps were taken to encourage and facilitate the faculty members to pursue Ph.D. Faculty members were also encouraged to attend and present papers in seminars, conferences etc., and to publish research papers in journals of national and international repute.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	1	-	42
Outlay in Rs. Lakhs	-	11,12,000	-	1,20,00,000

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	2	-	-	-
Outlay in Rs.	65,000	-	-	-

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	44	-	-
Non-Peer Review Journals	20	-	-
e-Journals	05	-	-
Conference proceedings	35	5	-

#### 3.5 Details on Impact factor of publications:

Range       Average       h-index       Nos. in SCOPUS

3.6 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	2017-18	ISRO	11,12,000	2,04,000
Minor Projects	2017-18	VTU	50,000	50,000
Interdisciplinary Projects	2017-18	-	-	-
Industry sponsored	2017-18	-	-	-
Projects sponsored by the University/ College	2017-18	College	3,00,000	3,00,000
Students research projects (other than compulsory by the University)	2017-18	KSCST	16,000	16,000
Any other(Specify)	2017-18	ISTE, DST	3,20,000	3,20,000
<b>Total</b>	-	<b>06</b>	<b>17,98,000</b>	<b>8,90,000</b>

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

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

3.9 For colleges  
Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy

Level	International	National	State	University	College
	Number	1	2	-	-
Sponsoring agencies	CSIR	Management	-	-	Management

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

3.13 No. of collaborations: International  National  Any other

3.14 No. of linkages created during this year:

3.15 Total budget for research for current year in lakhs:

From Funding agency  From Management of University/College   
 Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	03
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

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

Total	International	National	State	University	Dist	College
2	2	-	-	-	-	08

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

3.19 No. of Ph.D. awarded by faculty from the Institution

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

JRF  SRF  Project Fellows  Any other

3.21 No. of students Participated in NSS events:

University level  State level   
 National level  International level

3.22 No. of students participated in NCC events:

University level  State level   
 National level  International level

3.23 No. of Awards won in NSS:

University level  State level   
 National level  International level

3.24 No. of Awards won in NCC:

University level  State level

National level  International level

3.25 No. of Extension activities organized

University forum  College forum

NCC  NSS  Any other

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

1. Blood Donation Camp
2. Plantation for Greenish Environment
3. Swatch Bharath for Cleanness
4. Medical Camp for Rural People
5. Lecture in adopted villages (NSS)
6. Eye Donation Camp

## CRITERION – IV

### INFRASTRUCTURE AND LEARNING RESOURCES

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	5 acres	-	Management	5 acres
Class rooms	32	10	Management	42
Laboratories	53	-	Management	53
Seminar Halls	6	-	Management	6
No. of important equipment purchased ( $\geq$ 1-0 lakh) during the current year.	44	1	Management	45
Value of the equipment purchased during the year (Rs. in Lakhs)	1,61,20,979	2,90,000	Management	1,64,10,979
Others - VTU Research Centre	10	-	Management	10

#### 4.2 Computerization of administration and library

- Digital display board for common communications.
- Institute uses ERP software for maintaining student database.
- Library is computerized as library is fully automated by means of RFID. And library uses NGL software.

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value(Rs)	No.	Value(Rs)	No.	Value(Rs)
Text Books	15,031	43,72,925	1,624	7,58,551	18,355	51,31,476
Reference Books	1,680					
e-Books	Renewed along with e-journals - VTU Consortium for the year 2018					
Journals	70	14,06,781	62 renewed for 2018	2,18,314	70	16,25,095
e-Journals	8,611	52,99,750	8,611	4,53,000	8,611	57,52,750
Digital Database	1	4,19,186	-	-	1	4,19,186
CD & Video	556	-	-	-	556	-
Others (Project Report)	174	-	30	-	204	-

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	510	19	100 Mbps	1-(25 Computers)	1 -(25 Computers)	10	12	-
Added	-	-	-	-	-	-	-	-
Total	510	19	100 Mbps	1-(25 Computers)	1 -(25 Computers)	10	12	-

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

In the IPR Workshop the training was given to access the E-Journals.

#### 4.6 Amount spent on maintenance in lakhs :

i) ICT	5.16
ii) Campus Infrastructure and facilities	27.52
iii) Equipments	13.03
iv) Others	4.34
<b>Total:</b>	<b>50.06</b>

## CRITERION – V

### **STUDENT SUPPORT AND PROGRESSION**

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Induction day for the fresher's, where in all the coordinators & conveners of different committees briefed the students about curricular & extracurricular activities.
- Special coaching classes for slow learners are conducted during the evening hours.
- To enrich their self-learning ability library is equipped with various books, references, journals and e-journals to supplement the thrust of students.
- To address the grievances of the students and parents A Grievance Redressal Cell is constituted.
- Industry Institute Interaction cell builds a good relationship between the Industry and Institute for the welfare of the students by organizing regularly guest lectures, seminars, workshops, conferences, industry visits, in-plant training, internships and campus connect programmes.
- Wi-Fi connectivity and Internet facility with is made available throughout the campus to support the students in enhancing their knowledge with easy digital access.
- The college is catering to the needs of students belonging to deprived communities of Scheduled castes, Scheduled tribes, other backward classes and low-income groups. SC and ST Students are encouraged to continue their education by way of Scholarships from Government and Non – Government Organizations
- Entrepreneurship Development Cell organizes periodical meetings with industrialists, entrepreneurs and chief executives of various concerns to enhance the entrepreneurship skills among the students.
- National Service Scheme [NSS] encourage the students to take part in community development activities.
- Placement & Training Cell organizes various training programmes to mould the students with core competency and employability.

#### 5.2 Efforts made by the institution for tracking the progression

- Internal Quality Audits are being conducted every year to review the attainment of the quality objectives.
- Tracking the progress of students through internal Test, Assignments, Model exams
- Counselling supports the students to improve through Student welfare committee, Grievances and Redressal, Women's welfare etc.
- Department meetings are being conducted twice in a month to monitor the progress of the action plan. Academic audit is being conducted every semester to evaluate the progress.
- Parent - Teachers meeting is held periodically to convey the progress of wards and to elicit their views on various issues.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1137	35	43	-

(b) No. of students outside the state

36

(c) No. of international students

1

Men

No	%
723	64

Women

No	%
414	36

This Year						Last Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
67	28	12	253	-	360	66	29	9	230	-	315

Demand ratio

1:60

Dropout %

1% - 2%

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

- Continuing education cell is organizing the coaching classes for the students to face competitive examinations like GATE, GRE etc through IAS academy of our institution.
- The department specially conducts special coaching to the students for competitive

No. of students beneficiaries

772

5.5 No. of students qualified in these examinations

NET

0

SET/SLET

0

GATE

02

CAT

0

IAS/IPS etc

0

State PSC

0

UPSC

0

Others

11

## 5.6 Details of student counselling and career guidance

- **Counselling**

1. Counselling is provided to the students as a psychological support.
2. For student counselling, students are encouraged to convey their grievances and solved.
3. Student mentors deal with all the students having social, economic and personal problems.

- **Career guidance**

The Career Guidance Cell is catering to the needs of students with the following objectives.

1. To organize programmes to create awareness on the importance of higher studies in India and abroad.
2. To organize coaching classes for competitive exams such as GRE, GATE, to counsel them for higher studies.
3. To give ideas for preparing the materials for exams Students are given guidance for Entrepreneurship.

No. of students benefitted 1137

## 5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
40	770	62	9

## 5.8 Details of gender sensitization programmes

- International Women's Day was celebrated which is an opportunity to appreciate the remarkable contribution of women to our society.
- Women Development Cell organizes several programmes to enhance the confidence level of girl students for their empowerment in the society.
- Personal and academic related problems of women are counselled and solved.

## 5.9 Students Activities

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

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

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

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

Particulars	Number of students	Amount
Financial support from institution	80	54,51,230/-
Financial support from government	460	1,06,51,940/-
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

### 5.11 Student organized / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

### 5.13 Major grievances of students (if any) redressed:

- Suggestion boxes are kept for the students to write and drop describing their grievances and no such untoward incidence has occurred till date.
- The Institution has Grievance redressal Committee. As and when grievances are reported the committee meets and redresses the grievance.

## CRITERION – VI

### **GOVERNANCE, LEADERSHIP AND MANAGEMENT**

#### 6.1 State the Vision and Mission of the institution

##### **Vision**

Engineering the future of the nation by transforming the students to be technically skilled managers, innovative leaders and environmentally receptive citizens.

##### **Mission**

- To implement holistic approach in curriculum and pedagogy through Industry Integrated Interactions to meet the needs of Global Engineering Environment.
- To develop students with knowledge, attitude and skill of employability, entrepreneurship (Be Job creators than job seekers), research potential and professionally ethical citizens.

#### 6.2 Does the Institution has a management Information System

**Yes.** The Institution has a management Information System through Campus Uno software.

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

##### 6.3.1 Curriculum Development

Since the Institution is an affiliated Engineering College under Visvesvaraya Technological University, the curriculum and syllabi of the affiliated University have been adopted. The parent University revises the syllabi of the programmes in a regular cycle of four years.

### 6.3.2 Teaching and Learning

#### **1. Semester Pre-commencement Preparations**

- Departmental Academic Calendar
- Lecture plans
- Course learning Objectives and Course Outcomes
- Topic learning Objectives and Outcomes
- Lecture notes
- Updating the library with appropriate books as suggested by the faculty-
- Modifying the laboratories to cater for the needs of revised syllabus and new technology.

#### **2. Monitoring the teaching process through**

- Online feedback from students (Mid semester and end semester)
- Audit of completed syllabus(Monthly)
- Result analysis at the end of semester examination.

#### **3. Addressing issues of individual student**

- Additional classes for slow learners
- Personal guidance to students approaching with difficulties
- Mentoring of students to motivate
- Addressing the student personal issues is also done by various committees like SHE committee and Anti ranging committee

#### **4. Addressing issues related to course**

- Extra lectures are allocated in the time table for courses of difficult nature.
- Teaching methodology workshops are conducted
- Lectures are conducted on prerequisite topics
- Expert lectures are conducted on topics related to the course, but, outside the syllabus
- NPTEL videos support for learning the basic and latest subjects with good knowledge
- Assignments are given to students to get additional knowledge supporting to curriculum

#### **5. Addressing issues of faculty**

- Course assignment as per Competency.
- Mentoring and guidance to faculty for a course handled by him/her by senior/competent faculty
- FDP's are conducted for faculties in departments

### 6.3.3 Examination and Evaluation

Examinations are conducted as per rule and regulations of VTU. Evaluation of Internal Marks is done based on Continuous assessment of student's performance through tests, assignments, seminars and projects.

#### 6.3.4 Research and Development

- The college has a research and development committee to coordinate the activities related to research. The committee is headed by the principal with faculty members having Ph.D. qualification as its members.
- All departments of college are recognized as research centre of VTU, Belgavi.
- Incentives for research publications and research projects are provided
- Institution provides seed money for research activities.

#### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- The college boasts a well-stocked and digitalized central library with college and department-wise division to ensure easy, quick and efficient access to desired data.
- Wi-Fi campus.
- OPAC Software is provided for personal assistance to each and every user while accessing the library books
- Every department has individual air-conditioned seminar hall with LCD projector, system with internet connection.
- RFID cum Bar-coded Identity card to all the users.
- E-library and E-journals resources

#### 6.3.6 Human Resource Management

- The roles and responsibilities of faculty and staff members have been defined by the respective Heads of the Department as recommended by academic council of the Institution.
- A well academic environment is under practice that works for the academic growth of faculty members and students.
- The well-structured pedagogy model adopted by the faculty member helps to deliver course materials, lesson plans in an effective manner for achieving programme objectives (PO) and course objectives (CO).
- Faculty members are being constantly encouraged for publishing research papers in conferences and journals
- ICT aids are being offered to the faculty member towards availing modern teaching aids.
- Grievance and redressal cell is in active functioning, there by grievances posted by faculty, staff and student are being immediately solved and appropriate solutions are offered.
- Due to the existence of faculty member-self appraisal system, the outcome of SWOT analysis is transferred for their growth.

### 6.3.7 Faculty and Staff recruitment

The following procedure has been adopted for faculty and staff recruitment:

- Public Advertisement through National dailies.
- Application scrutiny by the concerned heads.
- Formation of expert committee with the composition of members as recommended by the AICTE & VTU.
- Expert committee interview for the candidates.
- Issue of appointment letter by the Executive Director, Board of Management.

### 6.3.8 Industry Interaction / Collaboration

- The students are encouraged in doing their research projects in different industries which are a part of their curriculum.
- Experts are also invited to share their industrial experiences with the students.
- Many conferences, workshops and seminars are regularly conducted by each department and many technical experts and leading industrialists are invited during the event.
- Field visits and study trips are organized for the students to make them familiar with the practical environment.
- The college has signed MoU with many leading industries
- The institution included industry specific courses to cater the needs of the industry
- Students are encouraged to take-up internships in leading industries.

### 6.3.9 Admission of Students

- Admission of students is done through single window system as per VTU Norms.
- The Institution ensures wide publicity and transparency in the admission process through prospectus, College website and advertisements in all leading national and regional daily newspapers.
- The prospectus and application form are uploaded in the College website. Prior to the results of higher secondary examinations, counselling centre inside the College helps the parents to enquire information about the range of courses, eligibility criteria, and process of admission as well as academic support facilities
- ACSCE has participated in various educational fairs of various leading publications in Bengaluru. The admission process sticks to the norms given by the government order.

6.4 Welfare schemes for

Teaching	√
Non teaching	√
Students	√

6.5 Total corpus fund generated

NIL

6.6 Whether annual financial audit has been done

Yes  No

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

Yes

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	LIC of VTU & ISO	Yes	IQAC & HOD's of All the Department
Administrative	Yes	Auditor	Yes	Principal

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes  No

For PG Programmes Yes  No

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

- Online QPDS system
- University has introduced CBCS system.
- The valuation is conducted under the surveillance of CCTV cameras at recognized valuation centres.
- Barcode system for coding and decoding of answer scripts

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

Not Applicable

### 6.11 Activities and support from the Alumni Association

- Alumni meets are organized every year.
- All the Alumnus are encouraged to register in Alumni Association
- Every Department maintains group email-ids for the passed out batches, there by industry openings and technical expectations have been circulated among students.
- Alumnus is regularly visiting the campus and offer technical talk and orientation programmes on the basis of the industrial needs.
- Since alumnus are the reputed stake holders of an educational system, a well defined feedback form has been designed and circulated among alumnus for recording their views and suggestions.

### 6.12 Activities and support from the Parent – Teacher Association

- Parent Teacher meeting is conducted once in a semester to know about the students' progress and attendance.
- Suggestions are also received from the parents for the improvement of the institution according we try to implements them.
- Updating Student IA marks & attendants through SMS to Parents.

### 6.13 Development programmes for support staff

- Basic English Communication
- Computer Skills – Ms-word, Excel

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

- Rain-water harvesting
- Prohibiting smoking and making a tobacco-free campus
- Tree plantation
- Environment Day Celebration
- Eco- Friendly Electric Vehicle used within the Campus for transportation.
- Initiative taken for Adopting Solar Energy usage in the Campus.
- Rallies are conducted to create awareness about Eco-Friendly environment.

## CRITERION – VII

### INNOVATIONS AND BEST PRACTICES

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

- Nurturing innovation among students
- Industry engagement in all-round development of Institute
- ERP System
- Use of Communication Technology for interaction between faculty and students beyond classroom
- Innovation in quality systems
- Innovations in academic activities
- Continual improvement

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

- Entrepreneurship Development Program (EDP) sponsored by Department of Science and Technology(DST) with support of Entrepreneurship Development Institute of India a 2 week program was organised.
- Innovative Projects carried out by the students enabled them to participate and win in several technical contests of repute.
- Guest faculty were invited from industry to interact with students on content other than the curriculum, providing insight to skills to be developed in today's working professionals.
- Students participated in internship programs in industries of repute during their semester break.
- Interpersonal Communication, Group Discussion and Aptitude Training were provided to students.

7.3 Give two Best Practices of the institution

- **Best Practice 1:** Title: “Innovation, Employability Skills and Career Building Program”.
- **Best Practice 2:** Title: “Faculty Skills Enhancement and Professional Strengthening Program”

*\* Details of the best practices are attached in Annexure IV.*

#### 7.4 Contribution to environmental awareness / protection

- *STP* is in place to process waste water generated within the campus.
- Rally and Awareness program on “Say no to Crackers” was arranged to spread awareness on 17<sup>th</sup> October 2017.
- Seminar was organised on “Co2, Respiratory Quotient & Biomass Energy” by Prof. Kalyan Annamalai, Texas A & M University, Texas, USA on 4<sup>th</sup> January 2018.
- Process of switching to Renewable Source of Energy through Solar Panels near hostels has been initiated.
- Industrial Visit arranged to Mahatma Gandhi Institute of Rural Energy Development on 1<sup>st</sup> September 2017 to spread awareness on renewable energy.
- *E-Waste* generation in the campus is minimal, and is disposed in a ethical way.
- *Trees Census* was carried out across the campus.

7.5 Whether environmental audit was conducted? Yes  No

7.6 Any other relevant information the institution wishes to add.

#### SWOC Analysis

##### **Strength:**

The location of the college is in the state capital and metro. The institution provides need based engineering undergraduate post-graduate and research programmes in multiple disciplines. The college has designed and implemented problem based learning enrichment courses in all the departments. A well established feedback system at all departments provides input for continuous improvement. The admission process is transparent and complies with regulatory guidelines. All reservation and other guidelines of the regulatory guidelines are strictly adhere, orientation classes, refresher classes, remedial, bridge courses initiated. Slow learners identified actions initiated. Teachers quality is improved on continuous basis by encouraging them to participate in inter institutional academic activities. The teaching learning process is well planned and follows affiliating university guidelines, evaluation system is as per the affiliating university guidelines. Strong research promotion activities, seed money, research facilities, and good number of publications, provide consultancy services. The college has NSS unit and conducts extension and ISR activities. Departments have collaborations with professional societies and industries. State of the art infrastructure facilities including laboratories, lecture halls and other physical facilities, excellent library and IT facilities meet the requirement of the learner. Strong student support and progression activities provide excellent facilities for sports cultural and co-curricular activities. Decentralized governance, internal quality assurance cell, stake-holders participation for quality improvement through feedback mechanism and eco club excellent innovations and best practices are the major strengths of the organization.

**Weakness:**

- More number of institutions in metro provides the similar programmes

**Opportunity:**

- Continuous improvement in all the key parameters of the constituent of the institution.
- Get institution quality certified by other accrediting agencies
- Get autonomous status for the institution
- Get deemed to be university status

**Challenge:**

- To cope-up with the rapid advance taking place in all the disciplines on continuous basis among alumni, faculty and outgoing students
- Be globally competitive in engineering education, services and research of relevance

**8. Plans of institution for next year**

- Plan to conduct an Entrepreneurship Awareness Camp for the students
- Plan to give innovative projects from the final year students
- Plan to submit the project proposals to get the grants from various funding agencies
- Plan to implement quality management system effectively
- Plan for Industry Oriented Placement Training
- Plan to sign MOU with Intel and Robert Bosch
- Plan to start the Centre of Excellence (COE) with IBM, Bangalore

Name : Prof. S. KAVITHA

 29/06/18

Signature of the Coordinator, IQAC

Name : Dr. M.S.MURALI

 29/06/18

Signature of the Chairperson, IQAC

**Principal**

**A.C.S. College of Engineering**  
Kambipura, Mysore Road, Kengeri Hobli,  
Bangalore - 560 074

**PART - C**

# **ANNEXURES**

## ANNEXURE - I

### ABBREVIATIONS

ACSCE	-	ACS College of Engineering
CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CoE	-	Centre of Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
DST	-	Department of Science and Technology
EDP	-	Entrepreneurship Development Program
ERP	-	Enterprise Resource Plan
GATE	-	Graduate Aptitude Test
IQAC	-	Internal Quality Assurance Cell
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
QPDS	-	Question Paper Dispatch System
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission
VTU	-	Visvesvaraya Technological University

# ANNEXURE – II

## Academic Calendar of the year 2017-18 – Odd Semester



### ACS College of Engineering

207, Kambipura, Mysore Road, Bangalore -560074

#### CALENDER OF EVENTS ODD SEMESTER AUG-NOV 2017

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	AUG	07	08	09	10	11	12	05	
2	AUG	14	15	16	17	18	19	04	15.08.2017- Independence Day/Alumni Day 19.08.2017-Third Saturday Holiday
3	AUG	21	22	23	24	25	26	05	25.08.2017-Ganesh chaturthi 26.08.017-Holiday
4	AUG SEP	28	29	30	31	01	02	05	02.09.2017-Bakr Id
5	SEP	04	05	06	07	08	09	06	05.09.2017-5 <sup>th</sup> Graduation day
6	SEP	11	12	13	14	15	16	05	11,12,13.09.2017-I Internal test 16.09.2017-Third Saturday Holiday
7	SEP	18	19	20	21	22	23	05	19.09.2017-Mahalaya Amavasya
8	SEP	25	26	27	28	29	30	04	29.09.2017-Durgastami, 30.09.2017-Vijaya Dhasami
9	OCT	02	03	04	05	06	07	03	02.10.2017-Gandhi Jayanthi 05.10.2017-Maharishi Valmiki Jayanthi 07.10.2017-First Saturday Holiday
10	OCT	09	10	11	12	13	14	06	
11	OCT	16	17	18	19	20	21	04	18.10.2017- Narak Chaturdashi 20.10.2017-Vikram Samvat New Year 21.10.2017-Third Saturday Holiday
12	OCT	23	24	25	26	27	28	06	23,24,25.10.2017-II Internal test
13	OCT NOV	30	31	01	02	03	04	04	01.11.2017-Kannada Rajathsova 04.11.2017-First Saturday Holiday
14	NOV	06	07	08	09	10	11	05	06.11.2017- kanakadasa Jayanthi
15	NOV	13	14	15	16	17	18	05	18.11.2017-Third Saturday Holiday
16	NOV	20	21	22	23	24	25	06	20,21,22.11.2017-III Internal test
17	NOV	26	27	28	29	30		05	
Commencement of Odd Semester 07.08.2017 Last Working Day of ODD Semester-25.11.2017 I Internal Test – 11.09.2017-13.09.2017 II Internal Test – 23.10.2017-25.10.2017 III Internal Test – 20.11.2017-22.11.2017									

*Principal*

A.C.S. College of Engineering  
Bangalore - 560074

## Academic Calendar of the year 2017-18 – Even Semester



# ACS College of Engineering

207, Kambipura, Mysore Road, Bangalore -560074

### CALENDER OF EVENTS Even SEMESTER FEB – MAY 2018

Week No	Month	MON	TUE	WED	THU	FRI	SAT	No of Working Days	Activities
1	Feb	05	06	07	08	09	10	05	
2	Feb	12	13	14	15	16	17	05	Feb-13-Maha Shivaratri
3	Feb	19	20	21	22	23	24	05	
4	Feb/Mar	26	27	28	01	02	03	05	
5	Mar	05	06	07	08	09	10	06	
6	Mar	12	13	14	15	16	17	05	15,16 and 17-First IAT
7	Mar	19	20	21	22	23	24	06	23,24 - Sports Day
8	Mar	26	27	28	29	30	31	04	Mar-29-Mahavir Jayanathi Mar-30-Good Friday
9	April	02	03	04	05	06	07	05	
10	April	09	10	11	12	13	14	05	Apr-14-Ambedkar Jayanathi 12,13-Cultural Day
11	April	16	17	18	19	20	21	05	Apr-18-Basava Jyanthi
12	April	23	24	25	26	27	28	06	26,27,28-Second IAT
13	April/ May	30	01	02	03	04	05	04	
14	May	07	08	09	10	11	12	06	
15	May	14	15	16	17	18	19	05	16,17,18-Third IAT
16	May	21	22	23	24	25	26	05	24, 25 & 26-Lab Internals

Commencement of Even Semester 05.02.2018

I Internal Test –15,16 & 17<sup>th</sup> of March 2018

II Internal Test – 26,27 & 28<sup>th</sup> of April 2018

III Internal Test – 16,17 & 18<sup>th</sup> of May 2018

Last working day : 26.05.2018

**Principal**

**A.C.S. College of Engineering**  
Kambipura, Mysore Road, Kengeri Hobli,  
Bangalore - 560 074



Parent's Feedback

Semester/Term/Year:

Parents are required to rate on the following attributes using the 4 -point scale shown

Very good=4	Good=3	Satisfactory=2	Unsatisfactory=1
-------------	--------	----------------	------------------

Mark  $\checkmark$  against the Number you feel appropriate

Questions	Unsatisfactory	Satisfactory	Good	Very good
1. Teachers are accommodative	1	2	3	4
2. Teachers are encouraging	1	2	3	4
3. Monitoring mechanism for learning	1	2	3	4
4. Need based bridge courses initiated	1	2	3	4
5. Classes are held efficiently and effectively	1	2	3	4
6. Library facilities are adequate	1	2	3	4
7. Sports encouragement	1	2	3	4
8. Cultural activities	1	2	3	4
9. Hostel accommodation	1	2	3	4
10. Transport services	1	2	3	4
11. Comprehensive personality development	1	2	3	4
12. Overall academic ambience	1	2	3	4
13. Progress communication to parents	1	2	3	4
14. Students counseling, mentorship	1	2	3	4
15. Continuous performance assessment	1	2	3	4
16. Behavior of non teaching staff	1	2	3	4

## ACS College of Engineering

### ALUMNI FEEDBACK FORM

The ACS College of Engineering is expanding its efforts to improve the quality of its undergraduate programs. As a Major stakeholder in our college, we are seeking your assessment on how we are serving your needs through the quality of our graduates. Thank you for your cooperation and support.

**Note:** This questionnaire has been designed by ACS College of Engineering to seek a feedback from the student to strengthen the quality of facilities and administration.

1. Year of graduation \_ 2017-18
2. Did you get placement through campus interview? Yes \_\_\_\_\_ No
3. If not, how long after completing your degree did you get placed?  
Within six months of graduation \_\_\_\_\_ within one year  still unemployed \_\_\_\_\_
4. Are you self employed? Yes \_\_\_\_\_ No
5. If yes, were you helped by your institution in setting up business yes \_\_\_\_\_ No
6. Were you offered guidance about career opportunities by Placement Cell? Yes  No

To what extent has your college education contributed and prepared you in the following PEOs:

1= Agree 2= Not quite sure 3= Disagree

Sl.No	Item	Rating		
		1	2	3
1	The programmed provided strong foundation for higher Education at national and global level	<input checked="" type="checkbox"/>		
2	The laboratory and hands on training provide by the program Me prepared me to succeed in my profession		<input checked="" type="checkbox"/>	
3	A strong foundation in mathematics in important for the kind of Work I do			<input checked="" type="checkbox"/>
4	The program me provided strong foundation in mathematics			<input checked="" type="checkbox"/>
5	A strong foundation in Science in important for the kind of Work I do		<input checked="" type="checkbox"/>	
6	The Program me provided strong foundation in science			<input checked="" type="checkbox"/>
7	Strong fundamentals in Computer Science & Engineering fundamentals required to solve engineering problems and is important to me for the kind of work I do		<input checked="" type="checkbox"/>	
8	The Program me provide me with strong fundamentals in Civil Engineering fundamentals			<input checked="" type="checkbox"/>

## Online Feedback Forms - Sample

New Tab x | acscoe | Feedback x
 campus.uno/ReportFaculty/Feedback

**ACS COLLEGE OF ENGINEERING**

Department ▾
Employee ▾
Students ▾
Reports ▾
Operations ▾
Settings ▾
Message Center ▾
Admin ▾

Feedback

Details ▾
2017-2018 EVEN SEMESTER ▾
Feedback 2018(Even) ▾
COMPUTER SCIENCE ENGINEERING ▾
Go

**Feedback 2018(Even)** Back

[22/05/2018 - 01/06/2018]

#	Student Name	Student No	Mrs. Kavita K Patil <small>PYTHON APPLICATION PROGRAMMING [15CS664]</small>	Mrs. Jyoti Metan <small>COMPUTER GRAPHICS AND VISUALIZATION [15CS62]</small>	Mrs. Sunita Chalageri <small>SYSTEM SOFTWARE AND COMPILER DESIGN1 [15CS63]</small>	Dr. B S Pradeep <small>OPERATING SYSTEMS [15CS64]</small>	Mrs. Jyoti Metan <small>COMPUTER GRAPHICS LABORATORY WITH MINI PROJECT [15CS68]</small>	Mrs. Sunita Chalageri <small>SYSTEM SOFTWARE AND OPERATING SYSTEM LABORATORY [15CS67]</small>	Mr.Prasad A Y <small>OPERATIONS RESEARCH [15CS653]</small>	Dr. Mareeswari V <small>CRYPTOGRAPHY, NETWORK SECURITY AND CYBER LAW1 [15CS61]</small>
1	Divakar Reddy,S.K	1AH14CS010	91.00 %	87.00 %	100.00 %	100.00 %	100.00 %	100.00 %	69.00 %	92.00 %
2	Nethra J	1AH14CS021	82.00 %	89.00 %	99.00 %	96.00 %	92.00 %	99.00 %	66.00 %	94.00 %
3	Rajshekar N.S	1AH14CS026	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %
4	Akshatha.D	1AH14CS040	82.00 %	89.00 %	98.00 %	92.00 %	92.00 %	98.00 %	69.00 %	94.00 %
5	Abhishek Gowda D	1AH15CS002								
6	Anannya P	1AH15CS006	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %
7	Ankit Kumar Singh	1AH15CS007	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %
8	Ashokumar N	1AH15CS009	83.00 %	75.00 %	91.00 %	68.00 %	85.00 %	91.00 %	83.00 %	89.00 %
9	Bhagyashree Y	1AH15CS011	29.00 %	23.00 %	47.00 %	44.00 %	27.00 %	50.00 %	27.00 %	23.00 %

2:14 PM  
6/27/2018

## Best Practices of the Institution

### Best Practice – I: “Innovation, Employability Skills Enhancement and Career Building Program”

➤ **Objective:**

The objective of this practice is to provide training to third year students of all branches to enhance employability skills, innovation ability by conducting Entrepreneurship Awareness Camp, the department of mechanical engineering organized Engine Overhauling skill development activities for enhancing the knowledge in the automotive sector. The program also aims to help students in overall career development.

➤ **The Context:**

After graduation, when students enter the engineering profession, in addition to domain knowledge, other skills and abilities such as communication skills, leadership, innovation, team building are very much required to become successful in the profession, which are not directly covered in the curriculum. To address this need a unique certificate course on Innovation, Employability Skills Enhancement and Career Building is designed which focuses on Self Awareness, Professional Skills, Innovation and Communications.

➤ **The Practice:**

The 3 weeks internship training was introduced from academic year 2016-17 for third year students for all the branches of engineering. Students are divided in five batches. The student will gain the real time knowledge of the industry in the field of designing, production, marketing, financing, human resource, where the students will be getting the 360 degree industrial knowledge and experience. At the end of the training Program, every student gets course completion certificate.

➤ **Evidence of Success**

Assessment of the students is carried out at the end to understand the impact of the program which is conveyed to the students individually. Following generalized statements can be drawn on the basis of students' feedback.

- The course is observed to help students improve their skills such as individual report writing, creative and strategic thinking etc.

- There is a noticeable positive change in the overall personality of the students who have completed this course.
- As a direct consequence of the innovation aspect of the program, 3 faculty and 4 students have filed patents till date. This is a key differentiator, giving the students an upper edge as they embark on their search for careers in the industry or pursue higher education in India or overseas.
- Mock interviews and group discussion sessions conducted under this program have resulted into positive feedback from the companies visiting the campus.

➤ **Problems encountered and resources required:**

This program is sponsored by RRG I and Industrial partner, under its signature project initiative and hence offered to the students without charging fees. This program needs to be planned beyond the students' regular academic engagements. Hence, it becomes challenging to identify free time-slots for large groups of students. A separate faculty coordinator had to be assigned for the smooth conduction of the program. The college has made a seminar hall available for all the sessions and to all the batches.

- **Best Practice - II: “Faculty Skills Enhancement and Professional Strengthening Program”**

➤ **Objective:**

The objective of the practice is to motivate the faculty members to do research, organize and attend conferences, workshops, seminars and symposia to get to know emerging technology trends and also to update their domain knowledge for the students to attain 100 percent results. For ACS College of Engineering the processes used to evaluate and provide feedback about the performance of the faculty working with us is extremely important. If these evaluation processes are properly designed, these can help the institution thrive by providing appropriate rewards and encouragement for good performers, and guidance about how to improve their performance to others. The existing evaluation processes for faculty did not appropriately make the distinction based on performance and may result in lower morale, engagement and productivity. The institution recognizes the importance of a faculty performance evaluation process that is fair and that provides productive and appropriate recognition award to faculty, one who achieve 100% results. As a result, a new performance reward scheme was designed to reward performers and encourage all others to improve their performance.

➤ **The Context:**

For effective teaching to attain 100 percent results, as well as research engagements, faculty members are expected to have holistic idea of their area of specialization. To accomplish this, they require exposure to various inter-faculty interactions taking place via conferences, workshops, seminars, symposia etc. The practice is addressed by introducing various faculty development schemes. No faculty performance review process can be free of issues or problems. Bearing this in mind, a committee was constituted to review the existing performance review system and recommend changes and policies to improve the process. The committee formulated a new Performance Reward Scheme (PRS) that is more transparent and better understood, more equitable, and provides more useful feedback to faculty members. The implementation of this new scheme since last 2 years has enhanced morale, rewarded good performers, motivated and reinforced productive activity of faculty at ACS College of Engineering. The aim of the new evaluation process is to appropriately quantify the academic and research performance of all faculty members at ACS College of Engineering through a self-appraisal system.

➤ **The Practice:**

The Head of the Department is requested to fill up an offline form, wherein he reports the department faculties academic (teaching) and research performance besides other services or co-curricular activities, he/she had undertaken during the previous year. The teaching performance is judged on the basis of results of a Student Online Feedback and the results achieved by the faculties for each faculty and each subject. The students are required to fill up this feedback form online. The results of the survey are used as a measure of teaching potential and quality of a faculty. The scores are compiled using customized software. Based on the student online feedback score obtained (given by students) a teaching score for all the subjects taught by the faculty during the semesters is generated. For all other activities undertaken by the faculty during the year, perception is given by the head of the department.

Research and Development Committee of the institution promotes and facilitates research undertakings of the faculty members. The faculty members are sponsored by the institute to attend the national / international conferences. To encourage quality research work by faculty members, various monetary incentives are in place. If the paper gets published in Scopus indexed journals, faculty will get reimburse the registration fees.

➤ **Evidence of Success**

The new evaluation scheme has been in use since the last 2 years. The Student online feedback scores have been solely used as a feedback tool for improving the performance of the faculty. The Student online feedback scores emphasize on the primary responsibilities of a teacher and include feedback on intellectual competence, integrity, a spirit of scholarly inquiry, effective knowledge dissemination, improved ways of presenting material and the ability to stimulate and cultivate the intellectual interest of students. Most faculty members have responded favourably to this new system of evaluation of their teaching skills although some improvements may still be required. Research is a critical component of the University Quality Policy. In all, refereed publications of high quality (SCI/Impact Factor) are expected as evidence of scholarly productivity. Quality is considered more important than mere quantity. Significant evidence of research publications and earning sponsored projects is considered important for the growth of the academic profile of the institution. There has been a significant increase in the research output of the institution since this new scheme has been introduced. The number of SCI publications has increased significantly. Similarly, the number of sponsored research projects is also on rise. There are 20 ongoing sponsored projects at any given point of time and the number is going up. The results are summarized and presented in a faculty meeting of the institution. The overall score of each department is computed and the department with the highest score is awarded as the best for the year. This has created a healthy competition where each department is making efforts to excel in one or more parameters.

➤ **Problems encountered and resources required:**

Workload of the faculty members availing Ph. D. study leave is required to be allocated to faculty members. Fund allocation is required for supporting research activities and Ph. D. programs. As expected there were many misgivings amongst the faculty about the scheme of evaluation of faculty performance. All misgivings of the faculty in accepting the Performance reward Scheme were eliminated through a series of meetings of the institution. The scheme has created a positive attitude and zeal to excel.