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Executive Summary and SWOC,
Profile of the Institution &
Criterion-wise Evaluative Report

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Executive Summary and SWOC

"Self Study Report" Of

Moogambigai Charitable & Educational Trust's

ACS College of Engineering

207, Kambipura, Mysore road, Bangalore, Pin :560074 State : Karnataka

Institutions Run by the Trust

1. ACS College of Engineering

The Institution situated on off Bangalore - Mysore Highway, on the approval accorded by the All India Council for Technical Education (AICTE), New Delhi, Govt. of Karnataka & Affiliated to Visvesvaraya Technological University, Belgaum and Offeres with UG Degree course in Engineering & Technology (BE) in 7 departments. the post-graduate programs are Product Design and Manufacturing, Structural Engineering, Digital Electronics and Communication System, Software Engineering. The college also provides the excellent research facilities in Physics, CSE & ME departments

2. RajaRajeswari Medical College & Hospital, Bangalore

The Institution situated on Bangalore - Mysore State Highway, on the permission accorded by the Central Government, Ministry of Health & Family Welfare, New Delhi and the college Affiliated to Rajiv Gandhi University of Health & Sciences, Karnataka. Offered with UG Degree course in MBBS and PG Degree(MD / MS) Course in the 20 specialty subjects. The College is recognized by the Central Government & Medical Council of India, New Delhi. The college is accredited with A grade by NAAC and both education ,services are ISO Certified

3. RajaRajeswari Dental College & Hospital, Bangalore

The Institution situated on Bangalore-Mysore State Highway, on the permission accorded by the Central Government, Ministry of Health & Family Welfare, New Delhi and the college Affiliated to Rajiv Gandhi University of Health & Sciences, Karnataka. Offered with UG Degree course in BDS and PG Degree(MDS) Course in the 9 specialty subjects. Our Dental College has been recognized by the Central Government & Dental Council of India, New

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Delhi. The college is accredited with A grade by NAAC and both education ,services are ISO Certified

4. RajaRajeswari College of Engineering, Bangalore:-

The Institution situated on Bangalore - Mysore Highway, on the approval accorded by the All India Council for Technical Education (AICTE), New Delhi, Govt. of Karnataka & Affiliated to Visvesvaraya Technological University, Belgaum and Offered with UG Degree course in Engineering & Technology (BE) and PG Degree course in M. Tech (Digital Electronics and Communication Engineering), MBA (Master of Business Administration) and MCA (Master of Computer Applications).

5. RajaRajeswari College of Nursing, Bangalore

The Institution situated on off Bangalore - Mysore State Highway, on the permission accorded by the Indian Nursing Council, New Delhi & Karnataka State Nursing Council and the college Affiliated to Rajiv Gandhi University of Health & Sciences, Karnataka. Offered with UG Degree course in B.Sc & PB-B.Sc Nursing Courses and PG Degree MSc Nursing Course in the 05 specialty subjects. Our Nursing College has attached with Teaching Hospital of Rajarajeswari Medical & Hospital.

Introduction:

ACS College of Engineering, Kambipura, Mysore road, Bangalore, Karnataka is a self-financing co-education and regular college affiliated to Visveswaraya technological University Belgaum, Karnataka. The college was established on 22-06-2009. The college received AICTE recognition on 07-04-2015, VTU on 14-10-2015, Government of Karnataka on 29-07-2015 for one year. The affiliating university act provides provision for availing autonomy. The college is applying for accreditation by national accrediting agencies as a component of availing the autonomous status. The college is located in Bangalore urban with campus area of 5acres and built-up area of 24,343sqmtrs. The college also has auditorium, playground, gymnasium, and other sports facilities. The college has swimming pool, boys & girls hostel, and quarters for faculties. The college provides cafeteria, health centre with fulltime qualified doctors and nurses. In addition the campus provides banking, transport, and generator facilities. The college offers the following undergraduate programmes Aeronautical Engineering, Biomedical Engineering, Civil Engineering, Computer Science Engineering, Electronic Engineering, Electronic Engineering and

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Mechanical Engineering and post-graduate programmes are Product Design and Manufacturing, Structural Engineering, Digital Electronics and Communication System, Software Engineering. The college also provides the excellent research facilities in Physics, CSE & ME departments. The total admission for UG is 357 and PG is 29. There are only 5 drop-outs in UG, the unit cost of education is Rs.80860 and Rs.41306 with salary and excluding salary component respectively. The college doesn't offer any programs in distant education mode and has teacher student ratio of 1:20. The college is applying for 1st cycle accreditation. The number of working days in last academic year was 170. The college has established IQAC on April 6th 2015. The details of criterion wise evaluation are the following

1. Criterion-I -Curricular aspects

The ACS College of Engineering, Mysore road, Bangalore is affiliated to Visvesvaraya Technological university, Belgaum, Karnataka. The programmes of the college follow curriculum designed and developed by the affiliating university. The college has a timetable committee which prepares varied timetable for different programmes including annual calendar of events complying to university academic calendar. The college offers 7 UG programmes, 4 PG programmes and 3 research programmes. All the departments have constituted curriculum committee which reviews the contemporary curricula, incorporate feedbacks from the students and alumni, seeks opinion from industries and academic experts to identify the deficiencies in the curriculum. As a part of curriculum enhancement, each department has implemented problem based learning, enrichment courses and value added courses. The college has language laboratory and provides soft-skills. The employability and entrepreneurship are considered while designing the enrichment courses. The college has established feedback systems in all the departments. Analyses of the feedback and initiating appropriate actions are done to improve the faculty performance, teaching learning evaluation, and infrastructure maintenance.

2. Criterion-II - Teaching learning and evaluation

The admission process is systematic, transparent and follows the regulatory guidelines. The admission process is widely published through prospects, student's handbook, website, and media. The college conducts orientation classes after admission. The necessary bridge courses, classes on spoken English and regional language are conducted. The teaching

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learning process and the learning experience practiced across varied departments are student centric. The various teaching methods employed are didactic lectures, practical classes, seminars enthused, workshops, working with internet Wi-Fi, and experimental and participative learning. Extensive use of advanced ICT facilities with E-learning resources, are practiced. The college continuously makes effort to improve the quality of the teachers by deputing to conferences and professional activities. The College has appointed total 121 faculties as permanent teachers and no temporary part-time faculties. 89 faculties are with PG qualifications, 12 with M-Phil, and 20 with PHD in their specialties. There are 14 Professors of which 2 are female and 21 associate professors of which 3 are female. There are 86 assistant professors, and 37 are female there are no distinct faculties are appointed. In all the programmes semester system is followed. The evaluation system is transparent and has examination grievances redressal cell. The college has a mechanism to address and monitor the academic growth of different category of students. All the courses and programmes have well defined course objectives and programmes have well drawn graduate attributes. There is a mechanism to assess the attainment of learning outcomes in all courses.

3. Criterion-III - Research consultancy and extension

The college promotes research in both undergraduate and post-graduate level by conducting research methodology sessions through research committee. The college plans monitors and implements to research activities through the research committee. Student and faculty contribute for research and seed money is provided. To encourage research, workload remissions and sabbatical leave provision is made. The college makes efforts to get external funding for research. The college has established advanced research centres. All the departments have appropriate equipments to meet the research needs of the department. The college has published 100 articles in peer reviewed journals. The departments published newsletters, the college publishes college magazine and faculties have authored books and are chapters in reputed text books. All the departments provide consultance services of their speciality to their respective industrial component. The college has established NSS unit, Redcross and committee for extension activities and ISR through this unit's intensive extension and ISR activities are initiated. The college collaborates with respective professional societies and implements professional society activities few departments maintain active collaboration with their industrial counterpart.

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4. Criterion-IV - Infrastructure and learning resources

The college is located in urban area spread over 5 acres with constructed area of 24343 sqmts. The college provides the facilities such as library, administrative office, placement cell, computer center, lecture halls, laboratories, and facilities for staff and students. The college complies with the regulatory authorities requirements with reference to physical facilities including auditorium, playground, cafeteria, bank & transport facilities. The college has state of the art multi-gym and swimming pool. The lecture halls are fitted with advanced equipments including Wi-Fi facilities, LCD's etc... The other physical facilities include hostels, healthcare facilities on the campus and vehicle parking. The library has library advisory committee and provides seating capacity of 120 students working hrs for 8:30am – 4:00pm. The layout of the library provides individual reading carrels, lounge area for browsing, and IT zone for E-resources. The library has lending reading and reference section and 4 long reading carrels. The library is fully computerized using newgen LED, software's and all the books journals and RF id-tag coded. The college library has availed VTU consortium package (IEEE, Springer, cloud based remote access, K-nimbus, J-Gate). The library has cloud based remote access, separate reference and repo-office section. User orientation is provided. Highest library users are awarded to both students and faculties. Library user's feedback is collected and the library advisory committee monitors the performance of the library in pre-defined indicators. The IT-infrastructure provides total 474 computers with ratio of 1:2 provides LAN facilities and licensed software's. The college has E-resources NPTEL, IEEE, and other open sources. The campus is Wi-Fi enabled with facilities for printing and scanning. The college has in-house maintenance cell with lab attenders, technicians and hardware system administrators appointed for the purpose. The college has water purification and softing plant installed.

5. Criterion-V - Student support and progression

The college has established mentorship across all programmes mentor and mentee meetings are regularly held. Orientation programme for the fresher's is conducted, slow learners are identified by the mentors and appropriate remedial measures are initiated. Parent teacher meetings are conducted. Alumni association is registered & Alumni meet are arranged once in a year. The college complies to all reservation policies for students. The college helps students in procuring bank loans provides financial assistance, all the students are covered under insurance and also students get government scholarships. The campus is disabled

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friendly and provides ramp and lift facilities. Student council is established, students participate actively in sports, cultural and extension activities. The college has NSS unit in which students participate actively. Good number of students participate as members of different committees under IQAC. College has effective grievance redressal cell, anti-ragging committee, women-empowerment cell, SHE committee and behavioral cell to meet the different needs of the students. Transport and healthcare facilities are provided on the campus.

6. Criterion-VI - Governance and Leadership

The institution has drawn clear vision and mission involving various stake-holders. The board of management has constituted governing council to monitor the varied activities of the institution principal is the member secretary of the governing council. The principal has constituted internal quality assurance cell and is a chairman of the IQAC. The IQAC monitors the functioning of four associate deans - associate dean administration, academic, human resource and examination. Different committees are constituted incorporating students as members. Students alumni and faculty provide their feedback for improvement of the system. Each dean monitors important key aspects of the constituents of the system. The IQAC has finance committee that monitors the financial aspects. The college has both internal and external audit mechanism and have appointed competent person academic and administrative audit is done through a feedback mechanism by the department, condemnation committee initiates action for all the departments.

7. Criterion-VII -Innovations and best practices

The faculties and students of different departments have established an eco-club at the institution level. The main objective of this eco-club is to initiate a culture of environment concern at the stake-holders level. The eco-club has conducted varied activities such as green audit, plantation drive, Swachh Bharath abhiyaan, renewable energy resources, solid waste management. The other activities are talk on biogas generation and usage, vehicular emission, and e-waste management. The college has initiated innovations to name few are students participation in IQAC, stake-holders participation through feedbacks, innovations in result analysis, creative learning methodologies, and as a part of orientation program the fresher's are taken round across the labs, workshops, library to get awareness of facilities.

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Department's specific innovations are introduced from different departments. The institution claimed best practices are proctorial systems, quality of teachers and experimental learning as the best practices.

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 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 ecoclub 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

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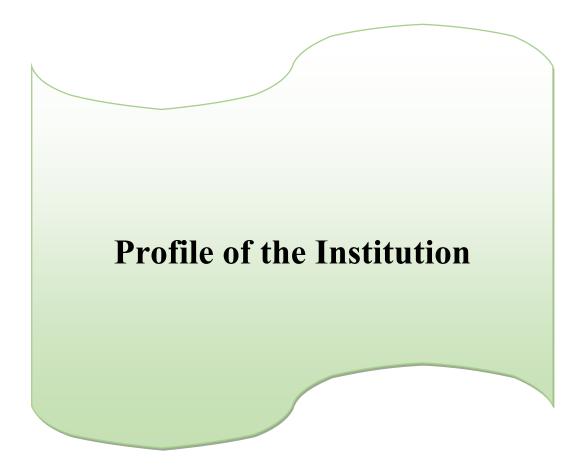


Challenge:

- 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

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Profile of the Institution

1. Name and Address of the College:

Name:	ACS COLLEGE	ACS COLLEGE F NGNEERING			
Address :	207,Kambipura,M	207,Kambipura,Mysore road, Bangalore			
City:	Pin :560074	Pin :560074 State :Karnataka			
Website:	ww.acsce.edu.in	ww.acsce.edu.in			

2. For Communication:

Designation	Name	Telephone	Mobile	Fax	Email
		with STD			
Principal	Dr.M.S.Murali	080 - 28437956	9900028024	28437989	principal@acsce.edu.in
Vice Principal	Prof. R R	080 -	017((02000		1
(Admin)	Elangovan	28437955	9176602009		vpadmin@acsce.edu.in
Vice Principal	Prof. Prasanna	080 -	0067500050		vpacad@acsce.
(Academic)	Kumar	28437855	8867590052		edu.in
Steering	Dr. M.				
Committee	Mathivanan	080 - 28437956	9865008600		acsnaac@acsce. edu.in
Coordinator					

3.	St	atus	of	the	Insti	tutio	n:

A ffi	liated	Col	lege
	nauu	CUI	エレとし

- 4. Type of Institution:
- a. By Gender

Co Education

b. By Shift

Regular

5. It is a recognized minority institution?

If	yes	specify	the	minority	status	(Religious/linguistic/	any	other)	and	provide
do	cumei	ntary evid	lence.							

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		0.0	
6	Sources	At tun	dina.
v.	Soul CC2	VI IUII	uiiiz.

Self financing

- 7. a. Date of establishment of the college: 22.06.2009 (dd/mm/yyyy)
- b. University to which the college is affiliated /or which

Visvesvaraya Technological University

c. Details of UGC recognition:

Under Section	Date, Month & Year	Remarks(If any)
	(dd-mm-yyyy)	
i. 2 (f)		Applied
ii. 12 (B)		Applied

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/	Recognition/Approval	Day, Month and		
clause	details	Year		
	Institution/Department	(dd-mm-yyyy)	Validity	Remarks
i.	AICTE	07.04.2015	2015-16	
ii.	VTU	14.10.2015	2015-16	
iii.	GOK	29.07.2015	Permanent	
iv.				

(Enclose the recognition/approval letter)

8. Does the affili	iating un	iversity Act	provide for co	onferment of au	itonomy (as rec	ognized by
the UGC), on its	s affiliat	ed colleges?				
Yes		No	✓			

If yes, ha	as the College	applied for	availing tl	he autonomous	status?
Vec		No			

- 9. Is the college recognized?
- a. by UGC as a College with Potential for Excellence (CPE)?

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Yes		No	J
If yes, dat	e of recognitio	n:	(dd/mm/yyyy)
b. for its p	erformance by	any other	governmental agency?
Yes		No	
If yes, Naı	me of the agen	cy	and
Date of re	cognition:	•••••	(dd/mm/yyyy)
40 7			•

10. Location of the campus and area in sq.mts:

Location *	Kambipura, Kengeri Hobli, Bangalore Urban
Campus area in sq. mts.	5 .00 acres
Built up area in sq. mts.	20,242 sq. meters

^{(*} Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

- 11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.
- Auditorium/seminar complex with infrastructural facilities
- Sports facilities
- * Play ground
- * Swimming pool
- * Gymnasium

All the Above Mentioned

- Hostel
- * Boys' hostel
- i. Number of hostels 01
- ii. Number of inmates 142
- iii. Facilities (mention available facilities)

Wi-Fi, Library, Gymnasium, Indoor & outdoor Games, Canteen, Swimming pool, medical facilities.

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* Girls' hostel	
. Number of hostels	1
i. Number of inmates	62
ii. Facilities (mention avai	ilable facilities)
Wi-Fi, Library, Gymnasiu	m, Indoor & outdoor Games, Canteen, Swimming pool, medical
facilities.	
* Working women's host	rel
. Number of inmates	Nil
i. Facilities (mention avai	ilable facilities) Nil
- Residential facilities fo	or teaching and non-teaching staff (give numbers available—
cadre wise)	
Available for Teaching Sta	aff
Cafeteria — Available	
 Health centre – Availal 	ole
First aid, Inpatient, Outpatie	ent, Emergency care facility, Ambulance Health centre staff –
Qualified doctor Fu	ll time Part-time
Qualified Nurse Fu	Il time Part-time
 Facilities like banking, 	post office, book shops:
Banking facilities available	e
 Transport facilities to one 	cater to the needs of students and staff: Yes
Animal house: NA	
 Biological waste dispos 	sal: NA
 Generator or other fac 	cility for management/regulation of electricity and voltage: Yes
available	
Solid waste management	nt facility: NA
Waste water managem	ent: Yes
• Water harvesting: Yes	

12. Details of programmes offered by the college (Give data for current academic year)

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SI. No	Programm e Level	Name of the Programme/ Course	Duratio n	Entry Qualificatio n	Medium of instructio	Sanctione d/ approved Student	No. of student s admitte
	UG	Aeronautical Engineering	4	10+2	English	60	49
	UG	Bio-Medical Engineering	4	10+2	English	60	25
	UG	Computer Science & Engineering	4	10+2	English	60	59
1	UG	Civil Engineering	4	10+2	English	60	50
	UG	Electronics & Communicatio n Engineering	4	10+2	English	60	47
	UG	Electrical & Electronics Engineering	4	10+2	English	60	21
	UG	Mechanical Engineering	4	10+2	English	60	47
		To	tal			420	298
	Lateral	Aeronautical Engineering	3	Diploma	English	12	01
	Lateral	Bio-Medical Engineering	3	Diploma	English	12	00
	Lateral	Computer Science & Engineering	3	Diploma	English	12	02
2	Lateral	Civil Engineering	3	Diploma	English	12	20
	Lateral	Electronics & Communication Engineering	3	Diploma	English	12	03
	Lateral	Electrical & Electronics Engineering	3	Diploma	English	12	10

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	Lateral	Mechanical Engineering	3	Diploma	English	12	24
		Tot	al			84	60
	PG	Product Design & Manufacturing	2	BE	English	18	09
3	PG	Structural Engineering	2	BE	English	18	18
	PG	Software Engineering	2	BE	English	18	01
	PG	Digital Electronics &	2	BE	English	18	01
		Tot	al			72	29
4	Integratted Programmes PG	-	-	-	-	-	-
	Ph.D	Mechanical Engineering	Min 3 Years (P Min 2 Years(F1	M.Tech	English	-	07
5	Ph.D	Computer Science & Engineering	Min 3 Years (P Min 2	t) M.E / M.Tech	English	-	05
	Ph.D	Physics	Min 3 Years (P Min 2	t) M.E / M.Tech	English	-	02
		Tot	al	•		-	14
5	M.Phil.		-	-	-	-	-
6	Ph.D		-	-	-	-	-
7	Certificat e courses		-	-	-	-	-
8	UG Diploma		-	-	-	-	-
9	PG Diploma		-	-	-	-	-
10	Any Other (specify and provide details)		-	-	-	-	-

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3. Does t	he col	lege offer	self-fii	nanced Prog	gramn	ies?			
Zes .		No	J						
fyes, how	many	? [
								-	
	rogra		roduce	d in the coll	.		ie last :		
es	√	No			Nun	ıber		3- UG	& 4-PG
ibrary, I egree aw	Physical arding	al Educa g progra	tion as	s departmen	nts, ui do not	nless th	iey are e depai	e also o	ist facilities li ffering academ offering comm
aculty	• •	Departm				J G	P(Research
ucurey		•		tany, Histor				-	
cience		Not Appl		tuny, mistor	ı y				
ırts		Not Appl:	icable						
ommerce		Not Appl							
ny Other		Not Appl	icable						
Specify)		1 (ot / tppi	icabic						
A, BSc, Nemester s Numb	MA, M system er of I	I.Com) Programn	nes wit	J		gramn	ne mea	uns a de	egree course li
. Inter/M	lultidis	sciplinary	Appr	oach					
. Any oth	ier (sp	ecify and	provid	de details)					
8. Does t	he col	lege offer	UG an	nd/or PG pro	ogran	ımes in	Teach	er Educ	ation?

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If yes,
a. Year of Introduction of the programme(s) (dd/mm/yyyy)
and number of batches that completed the programme
b. NCTE recognition details (if applicable)
Notification No.: Date:
(dd/mm/yyyy) Validity:
c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately? Yes No
19. Does the college offer UG or PG programme in Physical Education? Yes No If yes, a. Year of Introduction of the programme(s)
and number of batches that completed the programme
b. NCTE recognition details (if applicable) Notification No.: Date:
(dd/mm/yyyy) Validity:
c. Is the institution opting for assessment and accreditation of Physical Education
Programme separately?
Yes No

20. Number of teaching and non-teaching positions in the Institution

	Teacl	hing f	faculty	y			Non-teaching Technical			ical
Positions			Assoc	ciate	Assistant		staff		staff	
	Profe	essor	Profe	essor	Profe	ssor				
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC										
/ University / State	13	2	19	3	50	37	27	50	41	13
Government										

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Yet to recruit	01	-	01	-	01	-	-	-	-	-
Sanctioned by the										
Management/ society or other authorized bodies Recruited	12	02	18	03	49	37	27	50	41	13
Yet to recruit	-	-	-	-	-	-	-	-	-	-

^{*}M-Male *F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate		Assistant		Total	
			Professor		Professor			
	Male	Female	Male	Female	Male	Female	<u> </u>	
Permanent teachers								
D.Sc./D.Litt.								
Ph.D.	11	2	5	_	2	1	21	
M.Phil.	-	-	-	-	5	7	12	
PG	2	-	13	3	41	30	89	
Temporary teachers								
Ph.D.	-	-	-	_	-	-	-	
M.Phil.	-	-	_	_	-	-	-	
PG	-	-	-	-	-	-	-	
Part-time teachers								
Ph.D.	-	-	_	-	-	-	-	
M.Phil.	-	-	-	-	-	-	-	
PG	-	-	-	-	-	-	-	

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

Nil

23. Furnish the number of the students admitted to the college during the last four academic years.

	Year 1		Year 2		Year 3		Year 4		
Categories	Male	Female	Male	Female	Male	Female	Male	Female	
SC	21	15	9	14	11	4	8	1	
ST	9	2	6	0	8	5	3	0	
OBC	138	89	154	67	164	47	119	45	
General	69	15	55	31	40	30	24	23	
Others	-	-	-	-	-	-	-	-	

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24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	325	26	-	13	364
Students from other states of India	31	3	-	01	35
NRI students	2	-	_	_	2
Foreign students	-	-	-	-	-
Total	358	29	-	14	401

25. Dropout rate in	UG and PG (ave	erage of the las	t two batch	es)	
UG:	5	PG	Nil		
26. Unit Cost of Edu	cation				
(Unit cost = total a	nnual recurring	g expenditure	(actual) di	vided by to	otal number of
students enrolled)			_		
(a) including the sala	ry component			Rs. 80,860)/-
(b) excluding the sala	ary component		[Rs.41,306	/_
27. Does the college Yes If yes,	offer any progra	amme/s in dist	ance educa	tion mode ((DEP)?
a) Is it a registere	d centre for of	ffering distanc	e education	n programi	mes of another
University	Yes	No [
b) Name of the Unive	ersity which has	granted such	registration	ı .	
c) Number of progra	ammes offered				
d) Programmes carr Yes	y the recognition No	n of the Distan	ce Educatio	on Council.	





Sl No.	Department	Ratio		
	UG			
1	Aeronautical Engineering	1:15		
2	Bio-Medical Engineering	1:15		
3	Computer Science & Engineering	1:15		
4	Civil Engineering	1:15		
5	Electronics & Communication Engineering	1:15		
6	Electrical & Electronics Engineering	1:15		
7	Mechanical Engineering 1:15			
	PG			
1	Product Design & Manufacturing	1:12		
2	Structural Engineering	1:12		
3	Software Engineering	1:12		
4	Digital Electronics & Communication Systems 1:12			
	Ph.D	•		
1	Physics	-		
2	Mechanical Engineering	-		
3	Computer Science & Engineering -			

29. Is the college applying for
Accreditation: Cycle 1
Re-Assessment:
(Cycle 1refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re-
accreditation)
30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)
Cycle 1: (dd/mm/yyyy) Accreditation Outcome/Result
Cycle 2: (dd/mm/yyyy) Accreditation Outcome/Result
Cycle 3: (dd/mm/yyyy) Accreditation Outcome/Result
Cycle 5 (du/mm/yyyy) Accreditation Outcome/Result

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annexure.

31. Number of working days	during the last academic year.
170	
32. Number of teaching days	during the last academic year
(Teaching days means days	on which lectures were engaged excluding the examination
days)	
170	
33. Date of establishment of	Internal Quality Assurance Cell (IQAC) IQAC 6 th April
2015 (dd/mm/yyyy)	
34. Details regarding subm	ission of Annual Quality Assurance Reports (AQAR) to
NAAC.	
AQAR (i)	(dd/mm/yyyy)
AQAR (ii)	(dd/mm/yyyy
AQAR (iii) (d	ld/mm/yyyy)
AQAR (iv) (dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

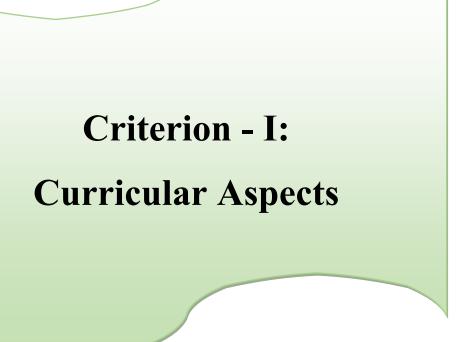
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Criterion - I: Curricular Aspects

- 1.1 Curriculum Planning and Implementation
- 1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

Our Vision

Single window delivery of total engineering education and services

Total quality management in engineering education, Service, and research.

Promote unique work culture in providing engineering services

To train general, specialized, advanced & allied engineering professional personnel to meet regional & national and global engineering services demands

Work to contribute to global engineering education, knowledge, skills& research.

Be efficient, effective, community acceptable, and excel in service Education & research.

To impart knowledge, & interact with organizations of similar interest.

Fostering global competencies, inculcating value system among learners

Promote use of technology of relevance

Reach the unreachable with awareness, engineering education, research & service

Serve the underserved community with engineering education

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Our Mission

Learner centered Engineering Education

industry centered service

Community oriented research

Strong community relationship

Serve the underserved community through engineering services Meet the regional, national and Global Engineering Educational, service and research needs Inter organizational linkage

Strategic future oriented planning

Excellence in knowledge, skills and service

Professionalism in engineering management

Open organizational climate

The vision/mission of the college are displayed

- 1. In the college website
- 2. In the notice board
- 3. In the department and HOD's cabin
- 4. All laboratories.
- 5. All brochures
- 6. In newsletters
- 7. In the canteen, library
- 8. In college magazine
- 9. Hand outs
- 10. Prospectus

OBJECTIVE

The institution consistently strives to enhance the standards of its students and staff. In order to achieve this, the institution has set for itself the following five objectives:

- (i) Academic Objective
- (ii) Employment Objective
- (iii) Research Objective

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- (iv) Industry Objective
- (v) Professional Objective

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s)

In general, the following action plans are implemented.

- Curriculum prescribed by the university is meticulously followed and is designed as per outcome based education.
- From the scheme, subjects are allotted to the faculty based on their specialization by the Head of the

departments well in advance and they are asked to submit the detailed course plan including the course outcome, its mapping with the program outcome, assessment schedule, assignment schedule and examination questions.

- Predefined college calendar and academic calendar are given to the faculty and students.
- Timetable is prepared and published in advance. It includes additional courses.
- Principal's meeting with HODs and Faculty is conducted at the beginning of each semester.
- Regular meetings of HOD with members of the faculty is conducted to develop academic plans based on the number of available days
- Each member of the faculty maintains the lesson plan and course file which are reviewed by the respective HOD and Principal.
- Unexpected loss in working days is compensated by working on an available Saturday.
- Mentors and student counsellors ensure good attendance and class performance.
- After each internal examination, results and the performance are discussed in class committees, department meetings and academic council to evaluate and remedial measures are then initiated.
- Parents are informed about the performance of students by phone, email etc., and parentteacher meetings are convened during each semester.
- Evenly distributed regular assignments, class tests, internal examinations and quizzes are conducted.
- Lecture notes are also prepared in advance and senior faculty contribute by rendering advice to the others.

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- Further if a subject is common to more than one branch and if more than one faculty handle a particular subject than a course co-ordinator is nominated for the same.
- As far as laboratory classes as concerned, lab manuals are prepared for each laboratory and distributed to the students.
- A model practical exam is conducted for the student's midway through the semester.
- Central/Departmental Library and e-resources are easily available.
- Industrial visits/Educational tours are conducted every year.
- Arranging remedial classes for academically weak students to raise their academic performance.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the university and / or institution) for effectively translating the curriculum and improving teaching practices?

1. Support from the University

- Academic calendar and examination calendar are prepared and published. End semester examination is conducted and the degree is offered by the university.
- University encourages the teaching staff to attend syllabus revision meetings, examination board meetings and centralized valuation camps.

2. Support from ACSE

- Subjects are allotted well in advance. Proper guidance is given to prepare the course plan, allowing flexibility in handling the subjects including the assessment schedule, evaluation and internal marks.
- Teachers are permitted to attend Faculty Development Programmes (FDP) in various subjects to enable them to effectively translate the curriculum.
- All Faculty members are encouraged to apply for the funding projects.

For effective teaching ACSCE provides the following:

- ✓ Academic calendar, timetable, schedule of activity including internal exams and evaluation pattern is given well in advance.
- ✓ Good ambience and well ventilated class rooms.
- ✓ Uninterrupted power supply.
- ✓ Seminar rooms in each department to conduct guest lectures, seminars etc.
- ✓ Induction programs for the newly joined members of different department.
- ✓ Compulsory English speaking in the campus for staff and students.

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- ✓ Wi-Fi in the entire campus and hostels.
- ✓ Personal computers/printers to staff and also in the department.
- ✓ Staff rooms with internet facilities.
- ✓ College transport for faculty members and students.
- ✓ Well-equipped laboratories.
- ✓ Conduct of Faculty Development Programmes (FDP), Workshops, Seminars, Refresher courses, etc.
- ✓ Freedom to close monitoring of the students and interaction with parents.

1.1.4 Specify the institution taken up or contribution made by the institution for effective curriculum delivery and transaction on the curriculum provide by the affiliating university or other statutory agency.

For effective curriculum delivery, the following initiatives are taken up by ACSCE:

- Publication of the semester time table in advance
- Advance course preparation by the faculty members depending on the available time
- Regular Class tests, Assignments, Quizzes.
- Library with NPTEL video lectures.
- Mentor for every 20 students.
- Regular monitoring of class attendance and teacher-parent-student interaction.
- Counseling and remedial classes for weak students.
- Interim/semester student feedback on teacher quality.
- Students are encouraged to do research and funded innovative project work under KSCST and various bodies.
- Uninterrupted power supply backed by diesel generators provided during working hours.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

To supplement the knowledge of students beyond the syllabus and to gain knowledge on the recent trends, the following actions are taken up by ACSCE

• The institution believes that alumni, industries, companies, academic experts, visiting professors from other institutes/universities are involved in development process.

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- Feedbacks from companies coming for campus placements and alumni are taken into account in order to improve the development from time to time.
- MoU with Industry and other research institutions for academic growth of the institution.
- ACSCE has a Placement Cell which networks and interacts with the representatives of industry. The HR managers and industry professionals regularly visit the campus to interact with the students on career challenges, opportunities and for recruitments.
- 1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (Number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.
- Curriculum is designed by the Board of Studies of the University and hence institution/faculty do not have the privilege to design the curriculum.
- Each department has its own curriculum committee which reviews the syllabus and compensates by conducting enrichment courses.
- However, based on the stakeholder's feedback, student feedback and the decision of the Academic Council, new courses are suggested and sent for the approval by the Board of Studies of the University. The mechanisms for obtaining feedback from stakeholders are

Feedback from Students

Regular feedback from students is obtained in the middle of each semester in standard format. Feedback is collected from students in each class by HOD.

Feedback from Employers / Industries

The feedback is collected from the employers and industries during the placement interviews, visit of faculty to industries for evaluation of student projects and during project interactions. Curriculum is designed based on need based assessment from the feedback of stakeholders and the mechanisms used in the design and development of curriculum are based on the inputs from other national technology institutions and current technologies. During syllabus revision our faculty also represents the meetings and our views also considered.

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1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If _yes' give details on the process (_Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

- Curriculum is designed by the University.
- However enrichment courses are designed and developed on need based assessment.

The following are the few of them

- ✓ Training technicians and supervisors as per industry requirement.
- ✓ Enrichment courses are developed for the following
- English/Communication skill/Aptitude
- Aptitude training
- LabView
- MATLAB
- CADD

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

The institution ensures that the stated curriculum objectives are achieved through:

Formal systems for review:

HOD verifies the course plan submitted well in advance, and monitors its progress regularly.

Evaluation procedures aligned with course objectives:

Interim feedback from students and at the end of semester feedback is taken.

Support Mechanisms for enhancing student achievement:

The mechanism for measuring the course objectives are

- Remedial teaching is arranged for slow learners.
- Number of placement by campus recruitment.
- Number of students employed within one year of passing out.
- Number of students engaged in entrepreneurship.
- Number of students opted for higher education.
- Conducting enrichment programs.
- Propelling the students to the govt. aided projects list KSCST, IIT.
- Conducting National and International level workshops.
- Conducting special courses on a research based programs.
- Teaching professional ethics to students to work for the nation growth.

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1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.

Yes, the college offers certificate for the value added courses conducted. The respective department offers certificate for the enrichment programmes that are conducted.

1.2.2 Does the institution offer programmes that facilitate twinning /dual degree? If _yes', give details.

Since we follow the University pattern of Curriculum, the twinning / dual degree programmes are not available yet.

- 1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:
- Range of core/elective options offered by university.
- Course offered in modular form.
- Lateral and vertical mobility within and across programs and courses.
- Soft skill development program
- Enrichment courses
- * Range of Core/Elective options offered by the University and those opted by the college
- ACSCE offers 7(four year)UG programmes, 4(two years) PG programmes and 3 R & D programmes. Each program has mandatory core courses and elective courses. Electives are chosen based on the student's interest, industry requirements etc. The institute has no choice in the core offered by the University. However we can offer the elective as per the students and industrial needs.
- Students have options to choose any electives from the given list of electives in 6th, 7th and 8th semester.

***** Choice Based Credit System and range of subject options.

• We have semester based credit systems. Options are available only for choosing electives from the list.

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Courses offered in modular form.

The courses are offered in 5 Modules.

***** Credit transfer and accumulation facility.

Credit earned from the first semester to the 8th semester is used for awarding the degree following University regulations in this regard.

❖ Lateral and vertical mobility within and across programmes and courses.

At the end of first year students have options to migrate to other departments.

- Students have options to do interdisciplinary projects with guides from other departments.
- DIPLOMA Lateral Entry (Direct admission to 3rd semester for DIPLOMA/B. Sc Students)

Enrichment courses.

- Option to do internship / industry project in leading national research agencies and industries during the final semester in lieu of doing projects.
- Soft Skill Development Programmes.
- Technical Skill Development Programmes.
- Regular Industry visit for familiarizing with industry practices.
- The placement cell periodically hosts mock placement tests/interviews with experts from the industry and gives the feedback of the students to the respective departments.
- 1.2.4 Does the institution offer self-financed programmes? If _yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.
- All the courses offered by the college are self-financing programmes.
- ✓ 7(four year)UG programmes.

Sl. No.	Courses	Scheme	Intake
01	Aeronautical Engineering	BE	60
02	Biomedical Engineering	BE	60
03	Computer Science Engineering	BE	60
04	Civil Engineering	BE	60

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05	Electrical & Electronics Engineering	BE	60
06	Electronics & Communication Engineering	BE	60
07	Mechanical Engineering	BE	60

✓ 4(two years) PG programmes.

Sl. No.	Courses	Scheme	Intake
01	Product Design and Manufacturing(ME)	M. Tech	18
02	Structural Engineering(CV)	M. Tech	18
03	Software Engineering(CSE)	M. Tech	18
04	Digital Electronics and Communication Systems(ECE)	M. Tech	18

✓ 3 R&D centers.

Sl. No.	R&D Centres
01	Department of Physics
02	Mechanical Engineering
03	Computer Science Engineering

- The policies regarding admission are governed by State Government Rules and those framed by management.
- Curriculum is prescribed by the university. Fee structure as per management decision with the approval of committee constituted by the state government.
- Teacher qualification and salary are as per the norms of UGC/AICTE.

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If _yes' provide details of such programme and the beneficiaries.

- Faculty development programme are conducted.
- Language laboratory is held for 1st year students only.
- Workshops are conducted.
- Students exhibit their cultural talents in inter collegiate competitions.
- Students have won prizes for aero-modeling shows at national level.

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1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice" If _yes', how does the institution take advantage of such provision for the benefit of students?

The provision for the flexibility of combining the conventional face-to-face andDistance Mode of Education for students to choose the courses/combination is available as per university Norms. The college itself has the facilities to enable our students to benefit from lectures given by eminent professors on certain topics to supplement class lectures through library. Ex: NPTEL...

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

The University curriculum is followed.

Curriculum Supplements

- Industrial visits.
- Enrichment courses.
- Guest/Invited talks, Assignments and Seminars.

Extra-curricular Accompaniments

The following technical/non-technical events are conducted regularly for the students.

- Departmental Fests (organized by each department).
- Engineers' Day.
- Club Activities (Technical Clubs functioning in all Departments organize technical activities).
- Tournaments.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

The curriculum for all branches of engineering provides a lot of scope to students by prescribing subjects like fundamentals of computer programming. However, the institution facilitates the following programs to enhance learning experiences to meet the needs of the

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employment market.

- Industrial visits.
- Add-on-courses beyond syllabi.
- Aptitude Training.
- Social service activities.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

The efforts are made by the institution to integrate the cross cutting issuessuch as Gender, Climate Change, Environmental Education, Human Rights etc., in support of the curriculum.

Climate and Environment Issues

- Tree plantation
- Rain water harvesting
- Sewage treatment plant / water reuse
- Plastic free campus
- Green campus the whole year round
- Blood donation camp

Human Rights & Social Awareness Program

- Legal awareness classes
- Anti-ragging cell in place
- Women cell

ICT Application for curriculum enrichment

- E-resources
- NPTEL Video lectures
- Open Source courseware
- Wi-Fi enabled campus
- AES (Academic Enterprise Solution)

Gender Issues

- Anti-Ragging cell and Grievance Redressal Cell are active in the college campus.
- Women's grievance cell is monitoring issues related to gender equality.
- Women counselors

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- Women's hostel on the campus
- Girls' retiring room on the campus.
- Health club facilities for ladies and gents separately.
- Ladies basketball team
- Equal representation to women in all student councils.
- Sexual Harassment elimination (SHE) committee.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

Moral and ethical values

- Annual retreats for students and staff
- Visit to old age homes, Blood donation, AIDS/Cancer awareness camps.
- Financial support to critically ill persons.
- Eco friendly environment with plastic free campus.
- Campus blessing at the beginning of every academic year.

Employable and life skills

• Recognizes the importance of life skills ACSCE organizes annual cultural, co-curricular and sports activities towards development.

& Better career option.

- Personality development classes and debate are conducted.
- Our college offers various courses, seminars and guest lectures to improve their employability
- The institution has a separate CSAI which offers courses like soft skill, communication skills, lateral thinking, personality development etc.
- Invited talks by Eminent Personalities from Industry / Academia.
- Department training and placement cell
- Campus recruitment by various companies like TCS, etc.

Community orientation

MCET (Moogambigai Charitable and Educational Trust) Activities

- Financial support for students and needy public.
- Compulsory community service.

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1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

Students:

Feedbacks are obtained through class room discussions and counselling sessions. In addition, student's feedback on teachers are taken during the middle and at the end of the semester. Students feedbacks are analysed and appropriate corrective actions are initiated.

Alumni:

The feedback is taken during periodic meeting with members of alumni and also through e-mail correspondence.

Parents:

During regular parent – faculty meeting.

Employers / Industries:

Feedbacks are obtained from the employers / industry people through direct interaction / e-mails and during campus placement discussions.

Academic peers:

Through interaction with various subject experts, visiting professors, senior faculty of IITs and NITs

Community:

Through Parent - Teacher interaction, Parent - HOD interaction.

1.3.5 How does the institution monitor and evaluate the quality of its enrichment programmes?

A team of faculty members having Course heads of all the programs and Principal is constituted which monitors and suggests evaluation parameters for the enrichment programs of the college. A feedback is taken from the participants of the course at the end, to critically analyse the outcomes of these programs.

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The institution is directly or indirectly involved in the design of the curriculum. Board of

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Studies (BoS) members is directly involved.

- ✓ The concerned faculty gives their suggestions based on the need of the learner.
- ✓ The stakeholder's feedback is also taken to understand and suggest the need for the design/ development of the curriculum.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If _yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

Yes, there is a formal mechanism to obtain feedback from students and stakeholders.

The college obtains feedback from

(a) Students: Written Feedback

(b) Alumni: Discussions, Written Feedback

(c) Parents: Discussions, Written Feedback

(d) Employers/Industries: Feedback

1.4.3 How many new programmes / courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?

The following table describes the various new programmes added to the University Curriculum at the behest of ACSCE.

Sl. No.	Year	Courses	Scheme	Intake
01	2012	Product Design and Manufacturing	M. Tech	18
02	2012	Structural Engineering	M. Tech	18
03	2013	Software Engineering	M. Tech	18
04	2014	Digital Electronics and Communication Systems	M. Tech	18
05	2011	Department of Physics	R&D	
06	2011	Mechanical Engineering	R&D	
07	2015	Computer Science Engineering	R&D	

Following are the rationale for introducing new courses/programmes:

- To start a new program, the current trends in the industry are analyzed and similar courses are designed as part of curriculum.
- The need to start a new program is more focused on the industry requirements, job requirements and developmental trends in research.

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Criterion II: Teaching - Learning and Evaluation

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Criterion II: Teaching - Learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

Publicity in media: Started in the year 2006 under Rajarajeswari Education trust, from time to time its achievements and activities have been published in the News Papers. There is sufficient awareness about the institute and its activities to the public at State level.

Alumni: The Institute has a strong Alumni network working in all facts of engineering, business, and government organizations, etc. The alumni are one of the major publicizing sources.

Website: The institutes website http://www.acsce.edu presents information of institute, its infrastructure, faculty, activities and admission details for interested candidates and parents. Newspaper advertisement: From time to time its achievements and activities have been published in the News Papers. There is sufficient awareness about the institute and its activities to the public at State and National level

Information Brochure: The Institute's Brochure containing information on departments, faculty, infrastructure, placements, and achievements etc. which also provides guidelines for admission seeking candidates and their parents.

The Institute strictly adheres to the norms of AICTE/ State Government and its affiliating University, VTU for admitting students. Undergraduate Candidate's admission to the Institute is through Common Entrance Test (CET) of Karnataka Examination Authority (KEA), COMED-K and Management Quota.

Postgraduate students and research students are admitted through PGCET, KMAT, CMAT and ULRAT. Seats allotted through counseling of KEA, COMED-K are admitted to the institute as per the norms of VTU. Complete transparency is maintained in its admission process.

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2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

Under	BE	45% of the Seats through	Seats will be allotted by KEA
Graduate		Karnataka Govt. Common	based on merit cum reservation
		Entrance Test conducted by	for SC/ST/OBC
		KEA	
		30% of the seat	Seats will be allotted by
		through COMED-K Exam	COMED-K Cell based on merit
			in the COMED-K
		25% of the seats to be filled	As per merit among the
		under Management Quota	applicants.
Post	M.Tech.	80% of the seats through	Seats will be allotted by KEA
Graduate		Karnataka Govt. PG	based on merit cum reservation
		Common Entrance Test/	for SC/ST/OBC
		GATE	
		20% of the seats to be filled	As per merit
		under Management Quota	(PGCET/GATE) among the
			applicants.
Ph.D.	Ph.D.	100% of the seats through	Selection will be done by the
		University Entrance test &	University as per merit in
		Interview	Entrance test and personal
			Interviews.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

The minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college is completely taken care by VTU, Belgaum.

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2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If _yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?

Yes, the institute reviews its admission to all programmes annually. The highest and the lowest ranks in all categories (GM, SC, ST, CAT-1, CAT-IIA, CAT-IIB, CAT-IIIA, CAT-IIIB and COMED-K) for all programs are reviewed to analyze the variation in the quality of students joining the institute. It is an indicator of the student's preference to the institute over others in the region, and the steps that need to be taken to further improve our position.

- 2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion
- * SC/ST
- * OBC
- * Women
- * Differently abled
- * Economically weaker sections
- * Minority community
- * Any other
- The admissions to professional colleges taking into account the different categories of students such as SC/ST/OBC/Disabled/Sports/NCC etc. are regulated by the respective Government order which also fixes the percentages for the different categories of students.
- Concessions in college fees, transportation fees and other fees for the deserving students in the category of SC/ST/Disabled/Sports/NCC/Economically Weaker.
- □Remedial Classes are conducted regularly to weaker students of these categories □Lifts/Ramps to assist physically disabled students.
- Hostels and transportation facilities being provided.

SC/ST and OBC: Benefit to the weaker sections of society is provided as per the policies of the State government and students belonging to the SC/ST or OBC categories are admitted as per the norms of the State government. SC/ST students are provided with Scholarship or Fee reimbursement (Post Metric Scholarship to SC/ST's, Fee-Reimbursement to SC/ST's).

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Candidates of CAT-I (Parents annual income less than or equal to 2 Lakhs) and for CAT-IIA, IIB, IIIA, IIIB (Parents annual income less than or equal to Rs 44500/-) are provided fee concession and extra boarding and lodging charges.

Women: There is a large women student population in the campus and the institute is gender unbiased.

Economically weaker sections: Financially weaker students are supported with Scholarships (Merit and means scholarship of MSRIT Alumni Association).

Outstanding achievers in sports and extracurricular activities: Institute offers excellent facilities and opportunity for excelling in sports and extracurricular activities.

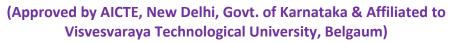
2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.

Aeronautical Engineering

	Number of	Number of students	Demand
Programmes	applications	admitted	Ratio
UG			
BE-AERO (2011-2012)	60	24	40
BE-AERO (2012-2013)	60	38	63.33
BE-AERO (2013-2014)	60	51	85

MECHANICAL ENGINEERING

Programmes	Number of applications	Number of students admitted	Demand Ratio
UG			
BE-MECH (2011-2012)	60	19	31.66
BE- MECH (2012-2013)	60	27	45
BE- MECH (2013-2014)	60	46	76.66
BE- MECH (2014-2015)	60	55	91.66





PG			
	18	8	
PG- MECH (2013-2014)	18	13	44.45
PG- MECH (2014-2015)	18	9	72.30

Electrical and Electronics Engineering

_	Number of		
Programmes	applications	admitted	Ratio
UG			
BE-EEE (2011-2012)	60	06	10
BE-EEE (2012-2013)	60	15	25
BE-EEE (2013-2014)	60	11	18.33
BE-EEE (2014-2015)	60	14	23.33

Biomedical Engineering

	Number of	Number of students	Demand
Programmes	applications	admitted	Ratio
UG			
BE-BME (2011-2012)	60	04	6.66
BE-BME (2012-2013)	60	24	40
BE-BME (2013-2014)	60	26	43.33

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Civil Engineering

	Number of	Number of students	Demand
Programmes	applications	admitted	Ratio
UG			
BE-CV (2011-2012)			
BE-CV (2012-2013)	60	48	80
BE-CV(2013-2014)	60	50	83.3
BE-CV(2014-2015	60	48	80
DE CV(2014 2013	60	52	86.6
PG	18	14	77.77
PG-CV (2013-2014)	18		
PG-CV (2014-2015)	18	15	83.33
PG-CV (2015-2016)		18	100

Electronics Engineering

	Number of	Number of students	Demand
Programmes	applications	admitted	Ratio
UG			
BE-EC(2011-2012)	60	34	56.6
BE-EC (2012-2013)	60	30	50
BE- EC (2013-2014)	60	57	95
BE-EC (2014-2015)	60	38	63.33

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PG	18	2	11.11
PG- EC (2014-2015)	18		
PG- EC (2015-2016)		1	5.55

COMPUTER SCIENCE ENGINEERING

	Number of	Number of students	Demand
Programmes	applications	admitted	Ratio
UG			
BE-CS (2011-2012)			36.66
BE-CS (2012-2013)	60	22	50
BE-CS(2013-2014)	60	30	68.3
BE C5(2013 2011)	60	41	70
7.0			
PG	18	2	11.11
PG-CS(2014-2015)	18		
PG-CS(2015-2016)		1	5.55
·			

Reasons for increase/decrease in Demand and actions Initiated for improvement:

The institution continuously monitors the social trends and industrial demand for the addition of courses and increase in intake. In accordance, the numbers of seats have been increased in the UG courses in the recent years. Also four PG courses have been started in the last two academic years to suit the needs of the industry. In addition, major of the seats are filled in the first counseling by VTU which clearly shows the high preference for the institution and sustenance of the image of the reputed institute in the state.

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2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently- abled students and ensure adherence to government policies in this regard?

The institution adheres to the Government policies for the differently-abled and is committed to their welfare in the following ways.

- A barrier-free environment is provided on campus for their mobility.
- > Equal opportunities are provided to them without discrimination in all the activities of the institution.
- > To enable the differently-abled students to become confident, they are encouraged in sports too.
- > Teaching and non-teaching staff members are sensitized to handle differently-abled students.
- ➤ □lift is provided in the college Main building.
- ➤ □ Special attention is given to their needs during the course of study.
- ➤ Wheel chair is provided for needy persons.
- ➤ □ An ambulance is readily available to cater to the emergency needs of all the students.

Bio medical & EEE department had also established a rural health center which is functioning in the pachapalayam village.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If _yes', give details on the process.

The weak students traced out by the faculty team and they are given extra-remedial classes in order to cope with their fellow students. The institute conducts **Orientation Programme** for newly admitted students which emphasize the following:

- ➤ Information and guidance about the college, its infrastructure and the rules and regulations of the college.
- > Information and opportunities to explore academic success strategies.
- Recent Market trend.
- > General awareness on different subjects and its market potentiality.
- > Importance of non-engineering subjects, fundamental concepts on various issues.
- Importance of values and ethics, attendance, etiquette, discipline and punctuality.

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- The Orientation Programme will be attended by the fresh students along with their parents. Experts from different walks of life are called for invited talks.
- The institution takes care of every aspect and needs of the students. Every section or class contains equal mix of intelligent and average students. The entry level form duly filled in by the new entrants provides sufficient information about their knowledge and skill level. The faculty members identify their needs through direct interaction and counselling. The gap between the current knowledge status and the expected input at the graduation under level is diagnosed and that paves way for arranging bridge courses to the educationally disadvantaged children. Besides that, the needs of ambitious learners are also studied and it enables the faculty to recommend challenging area of study to them. This makes the student community to access with the faculty members easily and clears their doubts. Apart from this, the weak students are traced out by the faculty team and they are given extra classes in order to cope up with their fellow students. These students are counselled by the senior faculty team and get the feedback of their studies and personal issues so that they can perform their studies in a particular defined way.
- For every subject, the corresponding faculty gets the Pre-Analysis Survey from the students before the commencement of the course. This survey was analyzed to know the knowledge level of the students on the subject. Further the faculty will try to modify his/her curriculum delivery accordingly.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

Most of the students getting admitted to the institution come from various disciplines like Kannada medium and students from other states also have major deficiency in medium of learning which is English. Therefore, learning of English is mandatory in first year and English is incorporated as a regular subject in first year. The diploma holders who join through lateral entry scheme have lack of fundamentals in engineering mathematics, which in turn affects their performance in analytical subjects. Hence remedial bridge classes in engineering mathematics are organized to upgrade their mathematical Skills.

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2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

- 1. Male & female staff members in the institution are treated in an equal manner.
- 2. The staff members and students are treated equally in all religious aspects.
- 3. Separate rest rooms are available for both men and women. They can make use of it in addition to common room.
- 4. The institution never discriminates on gender and religious issues.
- 5. All kinds of academic help are provided for the benefit of the economically and socially weaker section students.
- 6. Environmental science and protection is an integral part of the academic programme. The need for conservation of energy, water, etc. is reiterated during counseling time.
- 7. Blood donation camp is organized by NSS frequently. The students come forward and donate blood for the benefit of the public.
- 8. Regular medical checkup for the staff and student members conducted by RRMCH every year for the benefit of staff and students
- 9. Seminars are conducted on women empowerment.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

The staff members of all the departments who handle regular classes identify the requirements of the advanced topics and give lectures on the topics in the regular class itself.

- 1. The students of various departments are encouraged to take part in symposiums, workshops and seminars to acquire knowledge in the advanced topics.
- 2. The students are encouraged to do projects and mini projects in the advanced topics under the guidance of the faculty members. Project Expo is conducted every year for all the departments to develop their skill.
- 3. Resource persons from industries and academic institutions are periodically invited to give guest lecture on advanced topics for the benefit of the students.
- 4. The students are encouraged to participate in conferences to enrich their knowledge in advanced topics.
- 5. The college library provides a number of journals, books, e-Books and e-journals, through which the students can acquire knowledge on the advanced topics. The faculty members teach

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content beyond the syllabus, after the completion of syllabus to enrich the knowledge of the students in the advanced topics.

- 6. Additional experiments are also done after the completion of the regular lab classes.
- 2.2.6 How does the institute collect, analyse and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow karners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?
- 1. Three Internal Assessment test are conducted in each semester. The test papers are evaluated within two days after the conduct of tests.
- 2. The marks of Internal Assessment tests are displayed in the Notice Board within two days after the completion of tests; the student can view their marks in the Notice Board itself.
- 3. Faculty members of various departments identify the academically weaker students and provide mentoring. The regular counseling is also done to all the students by the faculty members.
- 4. Guidance and counseling is given based on different issues faced by the student.
- 5. Coaching classes are conducted for the slow learners after the completion of the syllabus in a regular manner.

The institute has a centralized student's data system regarding the academic related activities like assessment test, university exams, internal exams etc.

Strong proctor system: The personal data will be maintained by the individual faculty advisors. Each faculty advisor is put in charge of 10-20 students to monitor, shape and advise them to ensure their overall comprehensive growth and achievements. The slow learners and students from disadvantaged communities and students with low marks given extra coaching after the normal working hours of the college. In addition, slow learners and student with low marks are identified during the second year and they are put in one class so that they are given more intensive coaching.

The College has the least are number of students who are at risk of failures and dropouts in its history. It is usually being rectified with the following measures

- 1 Student counselling by faculty advisor
- 2 Motivation Lectures
- 3 Provision of scholarship (by the college) for economically backward students.

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- 4 Special classes and tests for the needy students.
- 5 Discussing the student progress with their parents in regular intervals.
 - 6 Psychological counselling done every year for depressed students by special counsellor.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

Academic calendar is prepared well in advance before the start of the semester and made available to all the students, teaching and non-teaching staff. The academic calendar includes examination schedule, last working date, holidays etc.

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Academic calendar

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The admission process is systematic, transparent and follows the regulatory guidelines. The admission process is widely published through prospects, student's handbook, website and media. The college conducts orientation classes after admission. The necessary bridge courses, classes on spoken English and regional languages are conducted. The teaching learning process and the learning experience practiced across various departments are student centric. The various teaching methods employed are practical classes, seminars, workshops, working with internet, WI-FI, experimental and participative learning. Extensive uses of advanced ICT facilities with e-learning resources are practiced. The college continuously makes effort to improve the quality of the teachers by deputing to conferences and professional activities. The college has appointed total 235 faculties as permanent teachers and one-part time faculty, 193 faculties are with PG qualifications,8 with M. Phil,34 with PhD in their specialization. There are 22 professors of which 7 are female and 5 associate professors of which 2 are female. There are 163 assistant professors, 100 are female there are no distinct facilities are appointed. In all the programmes semester system is followed. The evaluation system is transparent and as examination grievances, redressed cell. The college has a top mechanism to address and monitor the academic growth of different category of students. All the courses and programmes have well defined course objective and programmes have well drawn graduate's attributes. There is a mechanism to assess the attainment of learning outcomes in all the courses.

2.3.2 How does IQAC contribute to improve the teaching –learning process?

- The college has got the following objectives in order to improve the student outcomes for planning and overcoming the barriers.
- ✓ Academic objective
- ✓ Employment objective
- ✓ Industry Objective
- ✓ Professional objective
- ✓ Research Objective
- The above objectives have a program leader in the rank of senior professor. The outcome of the data from every department and its impact on the above objectives are discussed in the Management Review Meeting conducted twice in a year and also in the staff council meeting conducted fortnightly. Appropriate decisions are implemented.

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2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Lecture method and Interactive learning: The faculty use chalk and board and audio visual aids in teaching. Students are also encouraged to actually interact during the lecture hour by getting the doubts clarified on the spot.

Project-based learning: During the period of study in the 6th to 8th semester, many real time projects are given to the students and they are guided by both faculty and Industry/Research personnel. Over 50% of the final year UG and PG projects are Industry based real time projects.

Computer-assisted learning: The College has over 1250 computers, 78 printers 180 application software and 27 system software/languages costing about Rs.70 lakhs. These are effectively used for teaching. About 113 courses are ICT enabled. The students are also encouraged to develop software for the solution of the assignments and tutorials. Many final year projects are completed through the use of software.

SMART classes: All the departments of the college have each two number of SMART class room. These are in addition to the LCD projectors and pull down screen. The college as a policy has planned to convert all its class rooms into SMART class in a phased manner. In the academic year 2013-2014 another 15 to 20 wireless interactive boards will be added.

Experimental learning: Students do 2 to 4 laboratory courses per semester from 1st to 7th semesters. More than the required number of experiments, beyond the minimum specified by the university is performed. All the laboratory has excellent facilities, both hardware and software based. For the experiments detailed instruction manuals are provided. The observations are checked and verified by faculty and record books are maintained systematically. Two faculty members and one instructor are assigned for each practical class. Video cassettes for specialized topics are available in the departments as well as in the library. Laboratory classes are software or modern hardware based.

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Seminars:

3-8 guest lecturers in a year by eminent people from Industry, Academic and Research Institutions are arranged by each Department. One or two day workshops and seminars are also arranged frequently by each Department. One student Symposium is organized by each Department every year.

Others:

Technical Societies and Student chapters of National/International Associations are active and students are encouraged to present technical papers at National/ International Conferences. Peer interaction is done through inter collegiate student technical symposia which are arranged and conducted by students and funded by the College.

During the period of stay, many Industrial visits are arranged to the nearby industries and also an Industrial Tour is arranged in the 6th semester by every Department. Through these the students visit many industries across the country.

The student attendance in the classes is entered into a centralized computer system which generates the attendance report every month. This is communicated to the students. The Internal Marks system mandated by the University is based on the marks obtained by the student in the three continuous assessment tests and attendance. These are computerized. There is complete transparency in the internal evaluation of the students. Progress (marks and attendance) is conveyed to the students regularly and also to the parents periodically.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

Along with the course the current problem associated with that particular topic of study will be normally explained to the students to make them to think towards the solution for that particular problem (if they are interested). Once the student is willing to take up that scientific issue then brain storming discussion with the faculty member of that area will be encouraged. This makes the student to think, apply his creativity and scientific temper towards particular scientific problem which transforms the student into life-long learners and innovators. Programmes from EDUSAT and EKLAVYA and specialized lecture given by IIT faculty and experts from the industry expose the students the current developments and areas of research which kindles their creative abilities. This has led our students to innovative projects and achievements.

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2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

Faculty members use e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL), working models, open course ware from national and international universities like IIT, MIT (USA) etc., animation videos which explains the process etc for effective teaching. Also use of EDUSAT and EKLAVYA programmes, Multimedia for various skills development. ICT usage such as SMART board with data storage facility, remote pointer etc. OHP, guidance to students to access NPTEL for learning material, are incorporated too.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

College organizes national and international seminars, conferences and workshops.

- Faculty members and students are encouraged to participate in various national and international seminars, refresher courses and workshops.
- Industry persons are often invited to share their knowledge with students/teachers.
- In plant training and industry visits are regularly arranged.
- The college conducts several enrichment courses for students.
- > Data about students at risk of drop out are collected through the following ways:
- ➤ Daily attendance monitoring by the Tutor/HOD
- Performance in class test, internal and model exam.
- Observing their class room participation.
- > Feedback from hostel wardens.
- > Student profile and entry level score analysis.
- Involvement in extracurricular and co-curricular activities.
- Mark lists of all exams conducted in the college are sent to parents.
- Formal and informal teacher- student interaction, especially of class teachers.
- Feedbacks from external trainers also give information about student performance.

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The collected data are discussed in department level staff meetings and the following measures are initiated to prevent drop out:

measures are initiated to prevent drop out:
Academic Support
➤ □Bridge Courses
➤ □Remedial Classes
➤ □Tutorial sessions
Financial Support
➤ □Facilitate availability of various scholarships offered by Government through a

Psycho-Social Support

coordinator at college level.

- ➤ □ Active Individual and Group Mentoring is provided
- ➤ □Constant Parent Teacher interaction
- ➤ □Emotional support through counselling by professional counsellors.

➤ □College has constituted various scholarships through Alumni and staff club.

2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling/mentoring/academic advice) provided to students?

- ➤ Behavioural cell is established in the campus which is headed by competent person and college conducts. the physical, social, spiritual and mental wellbeing of student is monitored by mentor cell and hence overall wellbeing of the student is enhanced
- ➤ The Teaching Learning process in institute is sustained by insightful interventions by the staff to help the students identify and overcome the difficulties experienced during learning process. These interventions take the form of mentoring support by the faculty mentors, psycho –social counselling by a student councillor, academic advice and support by course faculty and empathic support by other teaching staff.

Tutoring by faculty mentor

➤ □For every 10 students there is a mentor who helps the students to get over their difficulties during learning. The students can approach the respective mentor for discussions at any time and explain their difficulties. Effective mentoring is provided by faculty member.

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Academic mentoring is done by the mentor. They carefully monitor the student activities like regularity of attendance, participation in seminars and the performance of the students in internal and external tests and semester examinations. The students are advised with some sort of remedial classes which help to improve their calibre. The mentor maintains all particulars of students in a data sheet and the counselling, if any, is recorded in the same.

Psycho-Social Counselling Support

- ➤ □Full time professional counsellor is available in the campus to support students with psycho-social counselling. He interacts with students in routine manner and interact with the parents who need counselling support.
- ➤ □The nature of difficulties identified during the counseling process includes interpersonal problems, academic difficulties, personality problems, family problems, adjustment problems and physiological issues.
- 2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faulty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Yes, college has encouraged the faculty to adopt innovative methods during teaching/learning process. Some of the methods are as follows:

- > PPT's, Audio Visual instruction.
- Skits and Demonstration.
- Group discussions
- Webinars
- > Seminars
- ➤ Hands-on training
- Theoretical subjects are to be supplemented with Mini projects/Practical assignments/Case studies etc
- The above methods adopted:
- ➤ Have made students to understand the subjects better.
- Resulted in increase in placement through the campus recruitment.

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The following innovative teaching methods are adopted by the faculty.

- Computers are used for teaching purposes and internet facility is available to students and faculty.
- > SMART class rooms, OHPs, LCDs, videos etc. are used for teaching purposes.
- ➤ Online availability of IEEE journals in the intranet.
- ➤ Good collections of recently published books in library
- ➤ Well-structured lesson plans are prepared/revised for all theory and practical courses on a period to period basis, scrutinized by HODs and made available in the website for student's access.
- ➤ Teachers are encouraged to publish in Journals and present papers in Seminars and Conferences.
- Teachers are sponsored for doing Masters/Ph.D. degree with leave and full salary for one year.
- ➤ Teachers are deputed with full support for attending Workshops/ Conferences/ FDPs.
- Research and R & D are promoted and encouraged and efforts are made to obtain sponsored R & D and consultancy projects.

The impact of such innovative practices is that the students are exposed to new modern methods of teaching and more and better understanding of the knowledge transferred to them within the allotted time. It helps to assess and improve the teaching-learning process that happens from the formative to summative period.

2.3.9 How are library resources used to augment the teaching-learning process?

The library is fully computerized using AutoLib Software and covering almost all the functions of library. All the books are RFID-coded in the library & RFID scanners are used in the circulation counter for book transaction.

- ➤ The students & faculty will make use of books, DVDs, e-books, Digital Course-ware from NPTEL, MITOCW, VTU, Berkley, Stanford, e-Vidya which are available in the library.
- > Students and faculty are encouraged to refer Journals, e-books, technical magazines available at the library which makes them to cultivate the research culture
- Students & faculty use the reference facility and also barrow books from the library.

 More than 1000 Periodical Journals in Print/online available like IEEE, Science Direct (Engineering, Chemical, and Biotechnology Package) Springer (Engineering and

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Mechanical), ASCE, IEI, NISCAIR, ACM, IAS, ASTM Digital Library, J-Gate, Nature, Scientific American. Etc., More than 360 e-books are available in the Library.

The central library has more than 77000 volumes of books and 800 journals (including online journals). It caters to the needs of all courses with open access to the students.

Students can access e-journals during the library hours Also all the departments have their departmental library. The students are also allowed to use the departmental library. Teachers and students effectively use the library to enrich their knowledge.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If _yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

The institution has not faced any challenge in completing the curriculum within the planned time frame. Affiliating university has prescribed a minimum of 450 periods per semester. The planned time frame and the academic calendar for each semester gives scope for extra hours and that is fully exploited by the institution. Faculty are taking weekly 5 hours' classes per subject.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

- The Principal & HODs will monitor the conduction of classes as per the time-table
- ➤ DUGC monitors continuously, evaluates and reports to the higher authorities about the effective outcome through quality teaching. DUGC will monitor, suggest any changes if needed in the lesson plan, verifying the quality of CIE question papers, etc.
- Audit committee of the IQAC will visit the departments to verify the teaching methodology, lesson plan, work done statement, CIE question papers and attendance register periodically.
- ➤ College authorities will also go through the student's feedback to cater the needs of the students in terms of quality teaching and teaching methodology.
- ➤ In every semester, the institute conducts three Internal Assessment Examinations as per the VTU University norms. In addition to the above, additional tests and extra coaching classes are conducted, if needed. The performance of the students in each subject and the ability of the teacher concerned in producing better results are evaluated.

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2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

Recruitment policy

- ➤ Before the end of every academic year, the workload for the next academic year was calculated and accordingly the number of vacancies to be filled up is determined.
- ➤ □ Vacancies are published in the leading daily newspaper and in the college website
- The recruitment shall be as per the norms of Government and other regulatory agencies.
- ➤ □The candidate shall be interviewed by a Staff Selection Committee consisting of Principal, HOD, Expert member from Government/Government aided institution, and some senior faculty.
- ➤ A special committee for faculty recruitment is centralized at the college where in a subject expert is one of the key member.
- ➤ Appointments are done purely based on merit as decided by the Selection Committee Policy.
- ➤ □ Preference is given to faculty having Ph.D. and teaching as well as industrial experience.
- > Retention strategy
- ➤ Salary scale based on the 6th pay commission is provided to the faculty.
- ➤ □HRA, CCA, Gratuity benefits, EPF benefits, Group Insurance Benefits, Health Care Benefits, etc., are given to the faculty.
- ➤ □ Provide a friendly and supportive environment for the faculty to work in the college.
- ➤ □Financial incentives to the professors who are Ph.D. Qualified.
- ➤ □Financial incentive to the faculty to participate in research activities and to publish papers in International journals and conferences.
- ➤ □ Provide Staff Quarters for accommodation with minimal rent upon request.
- > Provide accommodation in the Hostel located within the campus for the junior faculty.
- Financial support to attend the faculty development programmes and workshops.
- The college has well-structured promotional policy, Leave Policy, Consultancy policy, etc., to retain the best faculty.
- > Encouragement to do higher studies in research is given to the aspiring faculty.
- ➤ □ Teachers who desire to attend overseas conferences are encouraged.

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➤ □ Maternity leave with full pay is provided to women faculty.

Highest	Profess	or	Associat	e Professor	or Assistant		Total
qualification					Profess	or	
	Male	Female	Male	Female	Male	Female	
Permanent tea	achers	-1	1				_I
D.Sc./D.Litt.							
Ph.D.	15	7	3	2	4	3	34
M.Phil.			1		6	1	8
PG	7		10	13	63	100	193
Temporary te	achers	-1	1	- 1	-	.	
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-
Part-time teac	hers	-		-		•	
Ph.D.	01	-		-	01	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

In all the new courses added and to teach subjects of emerging areas, the college has always strived to employ persons of repute with domain expertise. For eg. In Aeronautical Engineering, people who have sailed as Chief Engineers on variety of aero plans and with more than 25 years of experience have been employed as faculty.

Similarly, in Biomedical Engineering and for M.Tech. Structural Engineering and software Engineering, well qualified faculty with doctoral qualification have been employed.

The same trend has been followed for all the new additional courses and in the emerging areas. Visiting faculties are appointed based on the field of specialized requirement for a short period. Also the institution encourages young faculty members to pursue research

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through QIP and/or Part time external registration for PhD and offers incentive for PhD holders to retain them in the institution. Encouragement is also given for continuing research by way of applying for funded projects and getting the grants from various research agencies. Faculty exchange Programme by collaborating with Institutes of repute like London South Bank University also helps in establishing knowledge partnerships. Further faculties have been sponsored to attend FDP/ STTP / Workshops regularly to enhance the knowledge and skills in the emerging areas.

To attract the new qualified faculty and retain the existing ones the institution provides requisite facilities like free transport for teachers coming from a distance, research facilities like library, internet, etc. To encourage staff to participate in workshops and seminars, the faculty is considered as on duty and also with other benefits to upgrade their knowledge by participating in national and international seminars. During the last three years many of the faculties have participated in number of national and international level conferences and workshops.

- 2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.
 - a) Nomination to staff development programmes

Academic Staff Development Programmes	Number of faculty nominated							
Department	AE	ME	CS	CV	ВМ	EC	EE	
Refresher courses	-	-	-	2	-	2	-	
HRD programmes	-	1	-	-	-	1	-	
Orientation programmes	1	3	-	4	4	3	-	
Staff training conducted by other institutions	1	2	26	4	1	2	-	
Summer / winter schools, workshops, etc.	5	5	6	13	6	2	5	

- b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning Teaching learning methods/approaches
- V Handling new curriculum
- **v** Content/knowledge management

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- v Selection, development and use of enrichment materials
- v Assessment
- **v** Cross cutting issues
- v Audio Visual Aids/multimedia
- v Teaching learning material development, selection and use
- c) Percentage of faculty
- * invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies
- * participated in external Workshops / Seminars / Conferences recognized by national/international professional bodies
- * presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

1) Teaching learning methods/approaches

The college organizes programmes to encourage teachers to prepare computer aided teaching / learning materials. The college also supports by providing infrastructural support. The heads of the department of the college regularly organizes training programs for faculty members to make them aware of the latest developments in the technology, there by empowering the teachers to improve their teaching methods.

2) Handling new curriculum

The college has experienced and qualified faculty to handle the new curriculum effectively. The HOD calls for the meetings with the faculty members to brief & explain the new syllabus & devise methods to empower the teachers to handle the new syllabus and faculty members are asked to attend the FDP programs.

3) Content/knowledge management

In the area of content / knowledge management system our faculty members are deputed for National & International seminars / field visits and also train the trainer programmes which help largely to update their knowledge & skills.

4) Selection, development and use of enrichment materials

The college organizes seminars, workshops, disseminating workshops, to enrich all practices and aspects of teaching and learning process. Further the faculty members receive invitations

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from various institutions to act as resource persons. They also present papers in leading national and international conferences. Newly inducted faculty will be given orientation program by the HODs of various departments which enable the new faculty to enrich their knowledge.

5) Assessment

The self-appraisal report is one of the major yard stick used for the promotion of the faculty. It gives a clear picture in terms of their research needs. Suggestions to improve the academic system are given by the faculty through self-appraisal report which is used as a reference by the college.

6) Cross cutting issues

Seminars and workshops are conducted where in experts from industry/academia are invited to share and deliver their knowledge and experience to sensitize and bring out awareness about the gender issues and empowerment of women and upliftment of socially and economically weaker society.

7) Audio Visual Aids/multimedia

Faculty members are trained to use audio visual aids and multimedia in the classroom.

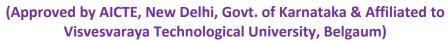
Lectures are delivered using audio visual aids in classroom. All departments are provided with audio visual aids and teaching learning aids.

8) Teaching learning material development, selection and use

Faculty members are given free access to internet which helps them to traverse through ocean of learning materials. The college has a well-stocked library containing both reference and text books of various subjects. Further attending and organizing seminars, symposiums and workshops also help the faculty in developing the course material.

List of Faculty Development Programs Organized:

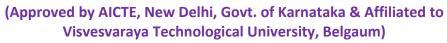
nt c Year the Faculty	
	recognized /
	sponsored by





	2011-12	Vamsha	31/07/201	MAT Lab application	VVIET,Myso
		Deepa.N	2	for DSP ,Image	re
BME				processing &control	
				systems	
	2012-13	Vamsha	1 st & 2 nd	Leadership&Interperso	MIT, Mysore
		Deepa.N	feb-13	nal skills	
	2014-15	Gayatri	January	Leadership&Interperso	CSIA
		Joshi	28 th -29 th	nal skills	
			2015		
	2014-15	Surekha	January	Leadership&Interperso	CSIA
		Nigudgi	28 th -29 th	nal skills	
			2015		
	2014-15	Prathibha.T.	January28 ^t	Leadership&Interperso	CSIA
		P	^h -29 th -	nal skills	
			2015		
	2014-15	Nanditha	January	Leadership&Interperso	CSIA
		Krishna	28 th -29 th	nal skills	
			2015		

Departme	Academi	Name of the	Date(s)	FDP name	FDP
nt	c Year	Faculty			recognize
					d /
					sponsore
					d by
EEE	2014-15	H.L.Dinakar	January	Leadership&Interperso	CSIA
			28 th -29 th	nal skills	
			2015		
	2014-15	Jayashree	January	Leadership&Interperso	CSIA
		K.R	28 th -29 th	nal skills	
			2015		
	2014-15	Chandrasekh	January28t	Leadership&Interperso	CSIA





	ar	h-29 th 2015	nal skills	
2014-15	Vibha Shetty	January	Leadership&Interperso	CSIA
		28 th -29 th	nal skills	
		2015		
2014-15	Anandha	January	Leadership&Interperso	CSIA
	M.H	28 th -29 th	nal skills	
		2015		
2014-15	Manjunath	January	Leadership&Interperso	CSIA
	Prasad	28 th -29 th	nal skills	
		2015		

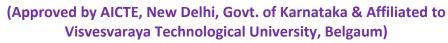
Departmen	Academi	Name of the	Date(s)	FDP	FDP recognized
t	c Year	Faculty		name	/ sponsored by
	2011-12	Dr.W.P.Premkuma	30/01/2012	CivilFE	VTU,Belagavi
		r	То	M	
CIVIL			31/01/2012		RRCE,Bangalore
			Jan27,28	FDP	
		Gayathri.G	2012		
	2012-13	Dr.W.P.Premkuma	Nov6-Nov7	FDP	Geological
		r		FDP	society of India
			Nov9		SJCIT,Karnataka
		N.Sugandha			
	2014-15	Dr.W.P.Premkuma	June27 -28	FDP	MSRIT,Bangalor
		r			e
	2014-15	Dr.W.P.Premkuma	March27,28	FDP	AIT,Bangalore
		r			
	2014-15	Laxmi.G.Gandagi	January28,2	FDP	CSIA,Bangalore
			9 2015		

Department	Academ	Name	of	the	Date(s)	FDP name	FDP
	ic Year	Faculty					recogniz
							ed /





					sponsore d by
	2014-15	Veeresh bhusnur	8/12/14	workshop	IIT
			12/12/1		Mumbai
MECHANIC			4		
AL	2014-15	Veeresh bhusnur	Januar	Leadership&Interpers	CSIA
			y 28 th -	onal skills	
			29 th		
ENGINEERI			2015		
NG	2014-15	Mr.H.S.Siddesha	Januar	Leadership&Interpers	CSIA
			y 28 th -	onal skills	
			29 th		
			2015		
	2014-15	Mr Girisha.C	Januar	Leadership&Interpers	CSIA
			y 28 th -	onal skills	
			29 th		
			2015		
	2014-15	B.R.Raju	Januar	Leadership&Interpers	CSIA
			y 28 th -	onal skills	
			29 th		
			2015		
	2014-15	Ramesh.C	Januar	Leadership&Interpers	CSIA
			y 28 th -	onal skills	
			29 th		
	2014.15	D.C. C.1	2015	Y 1 1 0 Y	CCTA
	2014-15	R.SivaSubramaniy	Januar	Leadership&Interpers	CSIA
		am	y 28 th -	onal skills	
MECHANIC	2014-15	Veeresh bhusnur	2015 1 week	FDP	JSSATE
AL	2014-15	Veeresh bhusnur	One	FDP	JSSATE
ENGINEERI	2014-13	v ecresii dhushuf		LDL	JOSAIE
			day		





NG	2014-15	Veeresh bhusnur	4days	FDP	VTU
	2014-15	Kumar.B.M	4days	FDP	VTU
	2014-15	Ramesh.C	4days	FDP	VTU
	2014-15	Sunil Raj B.A.	4days	FDP	VTU
	2014-15	Babu gowda	4days	FDP	VTU
	2014-15	Srinidhi acharya	4days	FDP	VTU

Department	Academ	Name of	Date(s)	FDP name	FDP
	ic Year	the Faculty			recogniz
					ed /
					sponsore
					d by
	2014-15	Dr.R.Mukes	January	Leadership&Interpers	CSIA
		h	28 th -29 th	onal skills	
AERONAUTIC			2015		
AL	2014-15	Mr.Dhanya	January	Leadership&Interpers	CSIA
ENGINEERING		prakash	28 th -29 th	onal skills	
			2015		
	2014-15	Mr.Prashant	January28t	Leadership&Interpers	CSIA
		h manvi	h-29 th	onal skills	
			2015		
	2014-15	Mr.Melvin	January	Leadership&Interpers	CSIA
		philip	28 th -29 th	onal skills	
			2015		
	2014-15	Dr.R.Mukes	Two days.	FDP	ACSCE
		h			
	2014-15	Dr.R.Mukes	Four days	FDP	VTU
		h			
	2014-15	Mr.Venkate	5 days	FDP	MVJCE
		sh Kusnur			
	2014-15	Melvin	3 days	FDP	ACSCE
		Philip			

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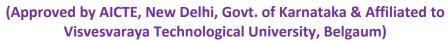


Department	Academ	Name of the	Date(s)	FDP name	FDP
	ic Year	Faculty			recognized /
					sponsored
					by
	2015-16	Dr.	18/1/16	Sustainable Research	RRCE
		Muruganandh	to		
		am	27/1/16		
	2014-15	Dr.	28/1/15	Leadership&Interpers	CSIA
		Muruganandh	t0	onal skills	
		am	29/1/15		
	2015-16	Dr. M.	18/1/16	Sustainable Research	RRCE
		Mathivanan	to		
			27/1/16		
	2014-15	Dr. M.	28/1/15	Leadership&Interpers	CSIA
		Mathivanan	t0	onal skills	
Electronics			29/1/15		
and	2014-15	Dr. M.	2/1/2014		Selvam
Communicati		Mathivanan			College of
on			to 12/1/201	—Signlas & Systems"	Technology,
Engineering					Namakkal
			4		
	2013-14	Dr. M.	18-06-13		K.S.Rangasa
		Mathivanan	to		my College
			24/6/13		of
					Technology,
					Tiruchengod
				—Digal Signal	e
				Processing	
	2013-14	Dr. M.			Selvam
		Mathivanan	04/6/13		College of
			to14/6/13	Analog Electronics	Technology,

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2015-16 Smt. R.J. 18/01/16 Sustainable Research Bangalore					Namakkal
Ravitha Sustainable Research Bangalore	2015-16	Smt. R.J.	19/01/16		RRCE,
Kavitha		Kavitha	18/01/10	Sustainable Research	Bangalore
29/1/15 onal skills Bangalore	2014-15	Smt. R.J.	28/1/15		CSIC,
2013-14 Smt. R.J.		Kavitha	to	Leadership&Interpers	ACSCE,
Ravitha			29/1/15	onal skills	Bangalore
25/1/14 Skills" Bangalore	2013-14	Smt. R.J.	24/1/14		
2015-16 Mr. Vijay 18/01/16 Sustainable Research Bangalore		Kavitha	to	—Enhan ci g Life	RRCE,
Mahantesh Malantesh Malantesh			25/1/14	Skills"	Bangalore
Mahantesh Sustainable Research Bangalore 2014-15 Mr. Vijay 28/1/15 Leadership&Interpers ACSCE, 29/1/15 onal skills Bangalore 2013-14 Mr. Vijay 24/1/14 ——Enhandig Life RRCE, 25/1/14 Skills" Bangalore 2015-16 Vanishree Moji 18/01/16 Sustainable Research Bangalore 2014-15 Vanishree 28/1/15 CSIC, Moji to Leadership&Interpers ACSCE, 29/1/15 onal skills Bangalore 2013-14 Vanishree 24/1/14 Moji to —Enhandig Life RRCE, 25/1/14 Skills" Bangalore 2015-16 Ramesha M 30/07/20 15 Cystems" and —Cyber Physial Systems" and —Titernet of Things" Bangalore	2015-16	Mr. Vijay	19/01/16		RRCE,
Mahantesh to Leadership&Interpers ACSCE, Bangalore 2013-14 Mr. Vijay 24/1/14 Mahantesh to —Enhanœig Life RRCE, Bangalore 2015-16 Vanishree 18/01/16 Moji Sustainable Research Bangalore 2014-15 Vanishree 28/1/15 CSIC, Moji to Leadership&Interpers ACSCE, 29/1/15 onal skills Bangalore 2013-14 Vanishree 24/1/14 Moji to —Enhanœig Life RRCE, Bangalore 2013-14 Vanishree 24/1/14 Moji to —Enhanœig Life RRCE, Skills" Bangalore 2015-16 Ramesha M 30/07/20 15 Orcher Physæl Systems" and —There of Things" Bangalore		Mahantesh	16/01/10	Sustainable Research	Bangalore
29/1/15 onal skills Bangalore	2014-15	Mr. Vijay	28/1/15		
2013-14 Mr. Vijay		Mahantesh	to	Leadership&Interpers	ACSCE,
Mahantesh to —Enhanœig Life RRCE, Bangalore 2015-16 Vanishree Moji 18/01/16 Sustainable Research Bangalore 2014-15 Vanishree 28/1/15 CSIC, Moji to Leadership&Interpers ACSCE, 29/1/15 onal skills Bangalore 2013-14 Vanishree 24/1/14 Moji to —Enhanœig Life RRCE, 25/1/14 Skills" Bangalore 2015-16 Ramesha M 30/07/20 15 —Cyber Physaal Systems" and NMIT, —itternet of Things" Bangalore			29/1/15	onal skills	Bangalore
25/1/14 Skills" Bangalore 2015-16 Vanishree Moji 18/01/16 Sustainable Research Bangalore 2014-15 Vanishree 28/1/15 CSIC, Moji to Leadership&Interpers ACSCE, 29/1/15 onal skills Bangalore 2013-14 Vanishree 24/1/14 Moji to —Enhancig Life RRCE, 25/1/14 Skills" Bangalore 2015-16 Ramesha M 30/07/20 To Cyber Physial Systems" and NMIT, —ilternet of Things" Bangalore	2013-14	Mr. Vijay	24/1/14		
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Moji Sustainable Research Bangalore 2014-15 Vanishree 28/1/15 CSIC, Moji to Leadership&Interpers ACSCE, 29/1/15 onal skills Bangalore 2013-14 Vanishree 24/1/14 Moji to —Enhancing Life RRCE, 25/1/14 Skills" Bangalore 2015-16 Ramesha M 30/07/20 15 —Cyber Physial Systems" and NMIT, Hernet of Things" Bangalore	2015-16	Vanishree	18/01/16		RRCE,
Moji to Leadership&Interpers ACSCE, 29/1/15 onal skills Bangalore 2013-14 Vanishree 24/1/14 Moji to —Enhancing Life RRCE, 25/1/14 Skills" Bangalore 2015-16 Ramesha M 30/07/20 15 —Tternet of Things" Bangalore		Moji	10/01/10	Sustainable Research	Bangalore
29/1/15 onal skills Bangalore 2013-14 Vanishree 24/1/14 Moji to —Enhancing Life RRCE, 25/1/14 Skills" Bangalore 2015-16 Ramesha M 30/07/20 15 —Cyber Physial Systems" and —ilternet of Things" Bangalore	2014-15	Vanishree	28/1/15		CSIC,
2013-14 Vanishree Moji to Enhancing Life RRCE, 25/1/14 Skills" Bangalore 2015-16 Ramesha M 30/07/20 15 — Tternet of Things" Bangalore		Moji	to	Leadership&Interpers	ACSCE,
Moji to —Enhancing Life RRCE, 25/1/14 Skills" Bangalore 2015-16 Ramesha M 30/07/20 15 —Tternet of Things" Bangalore			29/1/15	onal skills	Bangalore
25/1/14 Skills" Bangalore 2015-16 Ramesha M 30/07/20 15 — Cyber Physial Systems" and — Iternet of Things" Bangalore	2013-14	Vanishree	24/1/14		
2015-16 Ramesha M 30/07/20 15 —Cyber Physial Systems" and NMIT, —Iternet of Things" Bangalore		Moji	to	—Enhan ci g Life	RRCE,
30/07/20 Systems" and NMIT, —			25/1/14	Skills"	Bangalore
Systems" and NMIT, —Iternet of Things" Bangalore	2015-16	Ramesha M	30/07/20	—Cyber Physial	
—Iternet of Things" Bangalore				Systems" and	NMIT,
2015-16 Ramesha M 18/01/16			13	—rIternet of Things"	Bangalore
	2015-16	Ramesha M	18/01/16		
to RRCE,			to		RRCE,
27/1/16 Sustainable Research Bangalore			27/1/16	Sustainable Research	Bangalore
2014-15 Ramesha M 03-09- Engineering GITAM	2014-15	Ramesha M	03-09-	Engineering	GITAM
2014 Pedagogy-An University,			2014	Pedagogy-An	University,





			Overview	Visakhapatna
				m, India.
2014-15	Ramesha M	28/1/15		CSIC,
		to	Leadership&Interpers	ACSCE,
		29/1/15	onal skills	Bangalore
2013-14	Ramesha M	24/1/14		
		to	—Enhan ci g Life	RRCE,
		25/1/14	Skills"	Bangalore
2014-15	Nagesh.H.B	28/1/15		CSIC,
		to	Leadership&Interpers	ACSCE,
		29/1/15	onal skills	Bangalore
2013-14	Nagesh.H.B	24/1/14		
		to	—Enhan ci g Life	RRCE,
		25/1/14	Skills"	Bangalore
2015-16	Bharathi	18/01/16		RRCE,
	Gururaj	16/01/10	Sustainable Research	Bangalore
2014-15	Bharathi	28/1/15		CSIC,
	Gururaj	to	Leadership&Interpers	ACSCE,
		29/1/15	onal skills	Bangalore
2013-14	Bharathi	24/1/14		
	Gururaj	to	—Enhan c ig Life	RRCE,
		25/1/14	Skills"	Bangalore
2015-16	Vijaya Kumar	18/01/16		RRCE,
	H.R	10/01/10	Sustainable Research	Bangalore
2014-15	Vijaya Kumar	28/1/15		CSIC,
	H.R	to	Leadership&Interpers	ACSCE,
		29/1/15	onal skills	Bangalore

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- 2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)
- ➤ The institution encourages the Faculty to recharge themselves by attending orientation/refresher programmes conducted by AICTE/ UGC/VGST/IITs/IISc/IIM etc., participating and presenting papers in State, National and International Seminars, Symposia and Workshops by providing support for travel, recendeial and ntincindental expenses.
- > The Institute mandates the departments to organize Faculty Development Programmes/Workshops regularly
- ➤ The Institute conducts Faculty Induction Programmes for the newly recruited faculty members in association with professional training Institutes.
- ➤ Since inception the Institute has the policy of sponsoring the faculty for qualification improvements (M.Tech/Ph.D) with full salary under QIP programs of AICTE/UGC/ISTE.
- ➤ Encourages the faculty to take up M.Tech/Ph.D programmes on part time basis.
- ➤ Institute gives all the support for the faculty in getting the sponsored research projects/consultancy assignments.

Institute relieves faculty and offers them on-duty for pursuing post-graduation and PhD. programmes.

- 1. Institute offers desktop with Internet facility to senior faculty and also the campus is Wi-Fi enabled.
- 2. Institute sponsors on-duty for faculty in attending seminar, conferences, workshops, symposiums, summer and winter schools and industrial training.
- 3. Institute organizes International/National conferences, FDPs, summer and winter schools/workshops for the faculty.
- 2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

The faculty members have published technical papers in many peer reviewed national/international journals many faculty members of the institution have been rewarded

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for presenting technical papers in various seminars / conferences that were conducted by external professional agencies.

The Institution provides the following facilities to create an environment to improve the performance of the faculty.

- 1. The faculty members are encouraged to participate in the conference and Workshops, both at National and International level.
- 2. They are given OD for participation.
- 3. Faculty members are facilitated with computer and internet.
- 4. Wi-Fi connection is available round the clock in the campus.
- 5. Access to large number of on-line journals is made available in the central library.
- 6. The academic ambience in the campus contributes largely to more such Achievements

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

From the beginning, an evaluation system is in place for the process of evaluation of teachers by the students. At the end of each semester the students gives feedback of the faculty who taught the specific subject. Such evaluation is really improving the quality of teaching learning process among the faculty members. A faculty / teacher is really able to understand the areas he/she is strong and weak and can correct the mistake automatically with the help of the feedback given by the students.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

Institute notifies the criterions for allocation of internal marks and the marks awarded are displayed in the notice board at the end of every semester. The student evaluation processes are circulated to the students through the notice board and the mark evaluation process is clearly mentioned.

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2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

The students are evaluated by group discussions; seminar and common placement training are given to the final year students and evaluated at the end. It makes the evaluation challenging and interesting for students. Faculty members also try new innovations in their teaching skill to make evaluation more interesting and beneficial to the students. The college is affiliated to Anna University that has initiated various evaluation reforms.

- 1. Same pattern of question papers is used for internal assessment test.
- 2. Internal assessment is conducted to the students as per the university criteria.
- 3. Class tests and unit tests are conducted to evaluate the performance of students.
- 4. Student centric learning through assignments, projects, seminars and practical sessions.
- 5. On-line entry of practical mark is done before the commencement of VTU theory examination.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

The evaluation reforms of the university are followed to the best practices. The evaluations of the students are satisfied by showing them the evaluated performance in the answer sheets. Any doubt about evaluation is made clear to the students. All record is maintained i.e. answer sheets, weekly tests are taken and records are maintained.

Whenever class tests are held the results of the student's performance are shown to the students to encourage them or counsel them for better future performance. The institution has followed the improved examination system as prescribed by the VTU.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

Formative evaluation process

- 1. Institution conducts class test, mock test, industrial visit, guest lecture for the students.
- 2. Students are asked to submit the report on visits and expert lectures.
- 3. Institute organizes workshops and programs on technology and sciences and evaluates the students at the end of the program.

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4. It also encourages the students to take up mini projects, paper presentation, attend workshops, seminar etc. which provides forum for formative evaluation.

Summative evaluation process

1. Institute conducts three internal assessment test, practical and viva voce examinations and university examinations.

Institute sends the student to attend intercollegiate events and the events organized by university

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioural aspects, independent learning, communication skills etc.

There is complete transparency in the internal assessment. The criterion adopted is as directed by the university. All the students are familiar with the system of internal assessment. The average will be calculated by considering all the three including descriptive and short questions. After preparing the assessment report, it is submitted by the concerned teacher and the same is displayed on the notice board at the end of the session. The internal assessment is made by the faculty members keeping in mind the following aspects / factors of students _performance during the academic year:

- 1. Class attendance.
- 2. Class assignments.
- 3. Score in the assessment examination etc.

Institute encourages the independent learning which includes paper presentation by students, project, innovative mini project, publishing the articles in newspaper and gives proper weightage to these heads. In spite of all the above aspects of the students, their behavioral aspects, independent learning and communication skills etc. are also taken into consideration during the assessment of a student.

2.5.6 What are the graduate attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?

➤ □Institution inculcates quality of education and confidence to the students and aspires to make them competent engineers to suit the Global environment.

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➤ All the Programmes offered by the institution has set the Programme Outcomes based on the Graduate Attributes defined by the NBA.

The Graduate Attributes are as follows

- 1. **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the conceptualization of engineering models.
- 2. **Problem Analysis:** Identify, formulate, research literature and solve complex engineering problems reaching substantiated conclusions using first principles of mathematics and engineering sciences.
- 3. **Design/ Development of Solutions:** Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- 4. **Conduct investigations of complex problems:** Conduct investigations of complex problems including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
- 5. **Modern Tool Usage**: Create, select and apply appropriate techniques, resources, and modern engineering tools, including prediction and modelling, to complex engineering activities, with an understanding of the limitations.
- 6. **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- 7. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 8. **The Engineer and Society:** Demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to engineering practice.
- 9. **Ethics:** Understand and commit to professional ethics and responsibilities and norms of engineering practice.
- 10. **Environment and Sustainability:** Understand the impact of engineering solutions in a societal context and demonstrate knowledge of and need for sustainable development.

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- 11. **Project Management and Finance:** Demonstrate a knowledge and understanding of management and business practices, such as risk and change management, and understand their limitations.
- 12. **Life-long Learning**: Recognize the need for, and have the ability to engage in independent and life-long learning.

□Graduate attributes are attained through the program outcome and evaluated through the direct and indirect assessment methods. As far as efforts applied for attainment of these attributes by budding graduates during their engagement with respective degree program is concerned. It can be safely stated that they are tried to be attained by graduating students through the process of pedagogy planned & implemented for teaching learning process and evaluation practices in vogue from time to time. In addition, teaching of beyond curriculum topics/ subjects/ activities like PDP/ soft skills, group discussion/ debate, aptitude classes, guest lectures and participation in co- curricular & extracurricular activities.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

Students having grievances with the evaluation process and their doubts are cleared by showing their performance in the answer sheet.

- 1. The institute follows open evaluation system. The student's performance is displayed on the notice board and the same is informed to the parents.
- 2. All grievances regarding evaluation, including the internal assessment marks awarded for the students, are redressed by the examination board and the various Heads of Departments. There is a provision for re-evaluation and is permitted on request. The exam cell coordinates with the other members of the examination board and assists students in the redressal of their problems. University provides opportunity of revaluation for the students to reevaluate their marks. Also students have an opportunity of requesting for photo copies of their evaluated answer books.

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2.6. Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If _yes' give details on how the students and staff are made aware of these?

Yes, the college and the department stated their PEOs and POs. It is disseminated to all the students through college calendar, website, notice board etc.

Learning Outcomes

- 1. Continuous improvement in assessment and the skills help to achieve their goals.
- 2. Clearly communicate the type and depth of learning which students are expected to achieve in the area of specialization.
- ➤ □Yes. The Institution is practicing outcome based education system. To achieve the vision through mission, mission through program educational objectives (PEO), PEO through the program outcome (PO) and PO through Course outcome have been formulated and the same approved by the Academic Advisory Committee.
- ➤ □□The Vision, Mission, PEOs, and POs are disseminated to the fresh students and their parents every year during the Induction Programme by the HOD. Since these (PEOs, POs) were defined recently, the same was disseminated to all the existing higher semester students at the beginning of the academic year.

Individual department has framed Programme Educational Objectives (PEOs) and programme outcomes (POs).

For each course, course objectives and course outcomes are prepared by the faculty members are explained to the students at the beginning of the semester along with syllabus. The PEOs, POs, and COs are frequently discussed in the class and also in tutor ward meeting.

Senior faculty members are conducting seminar/meetings frequently in order to train faculty members to achieve the learning outcomes, POs and COs.At the end of each IAE, microanalysis is made in the class and also in the class committee meeting to meet out the learning outcomes.

During the interaction with students in the class committee meeting, the course objectives and outcomes are discussed and emphasized by the subject in charges and chairperson of the meeting.

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2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Institution has continuous evaluations which consist of three tests end term semester examinations, practical and viva voce examination. Using this mechanism Institution finds out the progress of the student and end result is made and uses feedback to improve the academic process.

- ➤ Institute communicates the marks obtained in the internal examination and in the university results are send to the parents regularly by post and students and parents can see their internal marks.
- ➤ It organizes regular parents & guardians meet to have a communication with students and parents.
- To facilitate the achievement of the intended learning outcomes,
- Regular class tests, internal assessment tests and model exams are conducted.
- Assignments and mini projects are given for effective learning.
- Reports are sent to parents after the internal assessment tests and model exam.
- Result analysis is done subject wise to analyze the performance.
- In case of absenteeism by a student, the information is given to the parents by the class teacher.
- > Special coaching classes are conducted for the absentees and failures.
- > Tutor-Ward meetings are conducted.
- Retests are conducted for those who are absent for the test with genuine reason.
- Remedial classes are conducted for the failures.
- The Attendance Percentage and IAE marks are calculated and displayed in the notice board and entered in the web portal of Anna University so that each student can verify their marks and attendance at any time.
- The report of IAE marks and attendance sent to the parents after the completion of each IAE. Parents are called in-person if their wards having attendance less than 75% and requested to contact their respective HOD and faculty advisor to improve their attendance.
- The parent- teacher's meetings are conducted at least once per semester and students are counselled in addition to their parent's advice.

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➤ University result analysis is done at micro and macro levels like subject wise analysis, comparison with other colleges, arrear analysis, list of toppers, individual subject wise failures, one, two, three subject failures, GQ vs. MQ and grade wise analysis.

List of students who secured University Ranks

Department	Academic Year	Name of the Student	University Rank
BME	2014-15	KavyaN,Rohini Thevi	VTU 3 rd ,VTU 5th

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

There are three internal tests for each semester as per the schedule given by the university and the test assessments are evaluated and marks displayed in the notice board and the same is sent to the parents through post and student Their internal marks are assigned based on the awarded marks.

At the end of the semester a model examination is conducted for both theory and practical so that the students get prepared to the university examination well in advance. The model examination marks are analysed and students are given necessary advice and counselling. College adopts the various strategies to facilitate the achievement of the intended learning

Teaching Strategies

outcomes, these strategies includes:

- Faculty members are requested to prepare the course file for each subject which includes PEO, PO, CO, syllabus, lesson plan, assignments, previous year question papers and handwritten notes.
- ➤ □HODs monitor the progress of syllabus by checking the course file on fortnightly basis.
- ➤ Books in the library are procured based on the teacher syllabus requirements from college and distributed to students.
- ➤ □HODs assess the teaching standard of faculties and suggestions are given for improvement if required.
- ➤ Workshops/ trainings and Faculty development programs are conducted by the institution from time to time.

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Learning Strategies

- College has adopted progressive and effective learning environment for each category student. Slow learners and advance learners are identified and given remedial classes and special assignment respectively.
- Library and computer lab working hours are scheduled keeping in mind and the time extended during internal tests and semester exams to support students.

Assessment Strategies

The following are the assessment tools to assess the achievement of the PEOs:

Alumni Survey

Employer Survey

Placement Record

Higher Education record

We have a good process to ensure a timely review of our programme outcomes and to provide for continuous improvement. The following are the assessment tools to assess the attainment of each PO for the past three years.

We have the following assessment mechanisms to ensure the quality progress of the academic activities:

- Class Committee Meeting twice in a semester
- > Student's feedback at the end of every semester
- ➤ Internal Audit at the end of every semester
- Project Review
- ➤ Course end survey at the end of every semester
- Micro Analysis of Internal Test Performance by each course instructors

Systematic documentation is maintained to review the outcomes of the curriculum. If at any step, the college realizes that the laid objectives are not being achieved, then the college plans for a remedial action and strategies. They are devised to cover up the gaps, if any in the delivery of the curriculum to ensure that it enables the college to achieve the stated objectives of the curriculum. College also allocates students counselling method where 20 students of each class are monitored by one faculty member who facilitates the structures to improve their academic percentage, effectiveness of project delivery, placement etc. The coaching enables the learners to prove their efficiency and desirable workforce.

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2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

Specific steps are taken by the College to make the programme offered socially and economically relevant. They include:

Student placement and entrepreneurship initiatives taken:

- ➤ The College has a Placement & Training cell which organizes Career orientation programme, Online placement training and aptitude tests for the students
- College Placement cell has arranged placement drive including many companies such as TCS, CTS, WIPRO, Infosys, L&T Infotech etc. during the seventh semester itself
- ➤ □Each Department has its own placement coordinator who arranges different trainings for making the students capable for attaining the placements
- ➤ Placement brochures are prepared and sent to reputed organizations by individual departments for facilitating placement
- The College has appointed a Placement Director, Placement Officer, Separate Placement Officer at Chennai, Public Relations Officer, Soft skill trainers and Liaison officer for coordinating placements in various Departments in developing communication and soft skills and aptitude among students through Orientation and training.

Innovation

- ➤ Technical Symposium, project contest in the campus are the platform for students to showcase their inherent innovative and creative talent and ideas applied on theoretical concepts.
- > Students are also encouraged to participate in poster presentation, Paper Presentation /publishing papers, attending conferences etc.

Research Aptitude among students

➤ The college encourages the students to undertake research works. Under the leadership of Dean Research, research centre functions. It conducts various programs for the benefit of student's community. They have been asked to submit the project proposal and the selected projects have been financially forwarded to the funding agencies. Students are encouraged to participate in project contests conducted at different places and our student's Specific steps are taken by the College to make the programme offered socially and economically relevant. They include:

Social Initiatives are encouraged by the college through activities such as

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- > Student Social Responsibility Club
- ➤ □NSS
- > YRC
- > RRC
- ➤ □Outreach programme
- Students magazines/Newsletter

2.6.5 How does the institution collect and analyse data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

The relevant data on student learning outcomes are collected from the following: -

- 1. Conduct of regular meeting by the Principal to know about the problem in the department and analysed to outcome the barriers from the department and from the institution
- 2. Reports from the class committee meeting, faculty feedback, course meeting and the informal feedbacks are sent to Principal for review.
- 3. Result analysis of internal assessment and University results are analysed to know the students and faculty skills that help to improve both the students and faculty.
- 4. Employer's feedback and compliments registers are maintained and planned accordingly.
- 5. Alumni meeting are conducted every year and the feedback from the alumni is accepted for planning and improvement of the institution.

The above reports are analysed and discussed in detail in the periodic meeting. The feedback about pace of the syllabus coverage, the teaching methodology employed by the faculty members, and the conduction of laboratory exercises is summarized from such reports.

Any shortcomings reported are addressed by mentoring the staff, planning additional tutorial hours if needed, or by providing special study material to the students.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

The Institute has a planned mechanism of monitoring the achievement of learning outcomes. The semester plan is designed in the beginning of the semester has a detailed schedule of internal assessment test.

1. Internal assessment tests and University examinations are conducted based on the circular given by the University and same is circulated to students well in advance.

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- 2. Assignments and laboratory experiments are planned to complete within the given duration
- 3. Attendance of the students calculated for every assessment period and same is uploaded in the university website and informed to students about their lack in attendance.
- 4. Organizing various programs like seminar, workshop, conference and resource lectures to meet the student's requirements.
- 5. 5. Various students' competition is conducted to enrich the student's other skills like cocurricular activities, sports, etc.
- 6. 6. Counselling is given to slow learners. Parents of such students are called to meet their respective faculty member, if required. As the entire lab courses are continuously assessed, students who lag in these courses are given additional help and guidance. They are also given additional lab practice. The faculty members are encouraged to conduct surprise tests to monitor the academic progress of each student.
- 2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If _yes' provide details on the process and cite a few examples. Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

Yes, Institute and teachers use assessment / evaluation as indicator for performance evaluation of the students. When the teacher plans the course, he / she formulate the objective for the course. The teacher uses the following factors to check fulfilment of objectives.

- 1. The faculty gets feedback in a semester, to know the students' performance.
- 2. Institute also uses the evaluation and assessment measures to check whether objectives of program are fulfilled by the course.

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Criterion III: Research, Consultancy and Extension

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Criteria III: Research, Consultancy and Extension

3.1 Promotion of Research

3.1.1 Does the institution have recognized research centres of the affiliating University or any other agency/organization?

S No	Name of the Department	Year of Affiliation (Research)
1.	Physics	2013-2014 (3 years)
2.	Mechanical Engineering	2015-2016 (1 year)
3.	Computer Science and Engineering	2015-2016 (1 year)
4.	Electronics and Engineering	Applied 2015-2016
5.	Electronics and Communication Engineering	Applied 2015-2016
6.	Biomedical Engineering	Applied 2015-2016
7.	Aeronautical Engineering	Applied 2015-2016
8.	Civil Engineering	Applied 2015-2016
9.	Chemistry	Applied 2015-2016
10.	Mathematics	Applied 2015-2016

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

• Research Cell Team @ ACSCE

S.	Faculty name	Department	Designation	Position in
No				research
				cell
1	Dr. M.S Murali	Academies/Administration	Principal	Chairman
2	Dr.R.Mukesh	Aeronautical Engineering	Associate	Member
		Aeronautical Engineering	Professor	
3	Dr.Punal.M.Arabi	Biomedical Engineering	Professor and	Member
		Dioniculcal Engineering	Head	
4	Dr.C.S.Pillai	Computer Science and	Professor	Member
5	Dr.T.Senthil Kumaran	Engineering	Professor	Member
6	Dr.W.P.Pream Kumar	Civil Engineering	Professor and	Member
		Civil Engineering	Head	

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7	Dr.W.P.Prema Kumar		Professor	Member
8	Dr. S.S. Patil	Electrical and Electronics	Professor	Member
		Engineering		
9	Dr.A.Muruganandham	Electronics and	Professor	Member
10	Dr.M.Mathivanan	communication	Associate	Member
		Engineering	Professor	
11	Dr.M.Eswaramoorthy	Mechanical Engineering	Professor	Member
12	Dr.Selvanandan.S		Professor	Member
13	Dr Bavya Shree	Physics	Associate	Member
			Professor	
14	Dr. Vishnu Mahesh	Chemistry	Associate	Member
		Chemistry	Professor	
15	Dr. Pradeep	Mathematics	Associate	Member
		iviamemanes	Professor	
16	Dr. Veena B H	Mathematics	Professor and	Member
		iviamematics	Head	

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?

Institution has taken several measures for smooth progress of research schemes/Projects- as mentioned below:

- > Autonomy to the principal investigator,
- ➤ Timely availability or release of resources,
- ➤ Adequate infrastructure and human resources,
- > Time-off, reduced teaching load, special leave etc. to teachers,
- > Support in terms of technology and information needs,
- Facilitate timely auditing and submission of utilization certificate to the funding authorities.

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3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

SCIENTIFIC TEMPER:

Students are encouraged to participate in Technical Quiz, Technical debate, science exhibitions, and science fest.

RESEARCH CULTURE:

- All the departments are having professional bodies like ISTE(Indian Society for Technical Education), IEI(Institute of Engineers, India), BMSI(Biomedical Society of India), ICI(Indian Concrete Institute), CSI(Computer Society of India), SAE(Society of Automotive Engineers), SESI(Solar Energy Society of India) and (ISC) Indian science congress.
- KSCST (Karnataka State Council for Science and Technology)
- SPP (Student Project Program)
- VGST (Vision Group on Science and Technology)
- TRIP (Trade-Related Intellectual Property)
- HAL (Hindustan Aeronautics Limited)
- ISRO (Indian Space Research Organization)

8th sem projects list:

	DEPARTMENT OF AERONAUTICAL ENGINEERING
S.No	TITLE
1	Relative Attitude Estimation Using Vector Observations
2	Analysis of Fluid Structure Interaction on an Aircraft Wing
3.	Design and Validation of Welding Fixtures for Aircraft Welded Pipe Structures
4.	Design Analysis of a Blended Wing Body of a UAV Using CFD
5.	Operational Sequence of Anti Skid Braking System
6.	Characterization of Glass-Fibre and Natural Fibre Reinforced Hybrid-Bio- Composites for Aerospace Applications
	Design, Analysis and Fabrication of Radio Controlled Rotary Wing Multirotor
7.	VTOL UAV
8.	Design And Fabrication Of Self Manufactured Jet Engine





	DEPARTMENT OF BIO MEDICAL ENGINEERING
S.No	TITLE
1.	Accelerometer Operated Wheelchair
2	Child Activity recognition using tri-axial accelerometer
3	Smart cane – Abdul Wasim

DEPARTMENT OF CIVIL ENGINEERING

S.No	TITLE
1.	Disposal of Organic Waste at Source
2.	Eco Friendly Concrete Using Bi-Products of Steel Industry
3.	Self-Curing Concrete Self-Curing Concrete
3.	
	DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
S.No	TITLE
1.	Captcha as Graphical Password-A New Security Primitive Based on Ai Problems
2.	Hiding In the Mobile Location Privacy Through Collaboration
3.	Privacy Presenting Multi Keyword Ranked Search Over Encrypted Cloud Data
4.	Dynamic Resource Allocation Using Virtual Machine for Cloud Computing
	Environment
5.	Pack: Prediction-Based Cloud Bandwidth and Cost Reduction System
6.	Expressive, Efficient & Revocable Data Access Control for Multi Authority Cloud
	Storage
7.	Sybilbelief: A Semi -Supervised Learning Approach for Structure- Based Sybil
	Detection
8.	Dynamic Resource Allocation Using Virtual Machine for Cloud Computing
	Environment Energy Efficient Reliable Routing Residual Energy In Wireless
	Adhoc Network
9.	Securing Broker-Less Publish/Subscribe Systems Using Identity Based Encryption
10.	Decentralized Access Control With Anonymous Authentication Of Data Stored In
	Clouds
11.	A Hybrid Cloud Approach for Secure Authorized of Data Stored in Cloud
11.	11 11 John Cloud 11 product for Seedile 11 and Cloud III Cloud

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12.	Shared Authority Based Privacy Preserving Protocol in Cloud Computing		
DEP	ARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING		
S.No	TITLE		
1	Design of Human Body Communication Physical Layer Transmitter for WBAN		
2.	Mind Controlled Wheel Chair Prototype		
3.	Multi Account Embedded ATM Card		
4.	Smart ATM Machine Using Redtacton		
5.	Smart Device For Women's Safety		
6.	Smart System Tracer		
7.	Smart Tech Helmet		
8.	Solar Tracker and Transmitting Energy to Government Mains		
9.	Vehicle Mounted Wind Energy System Using Roof Ventilator		
D	EPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING		
S.No	TITLE		
1.	Efficient Automation of Concrete Batching Plant Using PLC & SCADA		
	DEPARTMENT OF MECHANICAL ENGINEERING		
S.No	TITLE		
1.			
	Bio-Composites for Automobile Applications		
2.	Bio-Composites for Automobile Applications Biogas Production from Paper Waste Blend with Cow Dung		
2.	2		
	Biogas Production from Paper Waste Blend with Cow Dung Investigations on the Influence of Micro Fillers on Three-Body Abrasive Wear Behavior of Glass Fiber Reinforced Epoxy Composites		
	Biogas Production from Paper Waste Blend with Cow Dung Investigations on the Influence of Micro Fillers on Three-Body Abrasive Wear Behavior of Glass Fiber Reinforced Epoxy Composites Design, Development and Experimental Evaluation of V-Trough Solar Air Heater		
3.	Biogas Production from Paper Waste Blend with Cow Dung Investigations on the Influence of Micro Fillers on Three-Body Abrasive Wear Behavior of Glass Fiber Reinforced Epoxy Composites Design, Development and Experimental Evaluation of V-Trough Solar Air Heater With Thermal Energy Storage For Drying		
3.	Biogas Production from Paper Waste Blend with Cow Dung Investigations on the Influence of Micro Fillers on Three-Body Abrasive Wear Behavior of Glass Fiber Reinforced Epoxy Composites Design, Development and Experimental Evaluation of V-Trough Solar Air Heater		
3.	Biogas Production from Paper Waste Blend with Cow Dung Investigations on the Influence of Micro Fillers on Three-Body Abrasive Wear Behavior of Glass Fiber Reinforced Epoxy Composites Design, Development and Experimental Evaluation of V-Trough Solar Air Heater With Thermal Energy Storage For Drying		
3. 4. 5.	Biogas Production from Paper Waste Blend with Cow Dung Investigations on the Influence of Micro Fillers on Three-Body Abrasive Wear Behavior of Glass Fiber Reinforced Epoxy Composites Design, Development and Experimental Evaluation of V-Trough Solar Air Heater With Thermal Energy Storage For Drying Analysis of Inconsistency In Bead Width During Electron Beam Welding Emergency Seat Ejection Systems in Fighter Aircraft Crack Analysis Of NDT Through Ultrasonic Testing and Compare with Thermal		
3. 4. 5. 6.	Biogas Production from Paper Waste Blend with Cow Dung Investigations on the Influence of Micro Fillers on Three-Body Abrasive Wear Behavior of Glass Fiber Reinforced Epoxy Composites Design, Development and Experimental Evaluation of V-Trough Solar Air Heater With Thermal Energy Storage For Drying Analysis of Inconsistency In Bead Width During Electron Beam Welding Emergency Seat Ejection Systems in Fighter Aircraft Crack Analysis Of NDT Through Ultrasonic Testing and Compare with Thermal Analysis		
3. 4. 5. 6.	Biogas Production from Paper Waste Blend with Cow Dung Investigations on the Influence of Micro Fillers on Three-Body Abrasive Wear Behavior of Glass Fiber Reinforced Epoxy Composites Design, Development and Experimental Evaluation of V-Trough Solar Air Heater With Thermal Energy Storage For Drying Analysis of Inconsistency In Bead Width During Electron Beam Welding Emergency Seat Ejection Systems in Fighter Aircraft Crack Analysis Of NDT Through Ultrasonic Testing and Compare with Thermal		
3. 4. 5. 6. 7.	Biogas Production from Paper Waste Blend with Cow Dung Investigations on the Influence of Micro Fillers on Three-Body Abrasive Wear Behavior of Glass Fiber Reinforced Epoxy Composites Design, Development and Experimental Evaluation of V-Trough Solar Air Heater With Thermal Energy Storage For Drying Analysis of Inconsistency In Bead Width During Electron Beam Welding Emergency Seat Ejection Systems in Fighter Aircraft Crack Analysis Of NDT Through Ultrasonic Testing and Compare with Thermal Analysis		

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11.	Characterisation of Natural Fiber Reinforced Bio-Composites for Automobile
	Applications
12.	Design and Fabrication of Three Axis Multipurpose Machine Using Differential
	Gear Mechanism Methods

- Research methodology classes are conducting for UG and PG students.
- Seed money is provided to faculties and students for their research work.
- College is providing relaxed work load for those who are involved in Ph.D/Research work.
- High level publications are recognized and those faculties are awarded and given incentives.
- Faculties are encouraged to attend FDPs, Conferences and workshops.
- Registrations fee for FDPs, Conferences and workshops will be paid by Management.

APTITUDE AMONG STUDENTS:

- College periodically Conducts the National / international events like workshop, seminar, conferences with eminent guest and encourage the students to actively participate
- Management provides seed money to good projects.
- i) Faculty members are encouraged to present and publish papers at reputed conferences and high impact factor journals.
- ii) Young faculty members are encouraged to enrol for Ph.D.
- iii) Faculty is encouraged to apply for funded projects in different fields.
- iv) College organizes FDPs, Conferences and workshops.

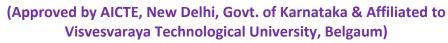
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3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

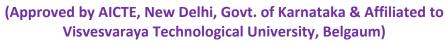
LEADING RESEARCH PROJECTS

Sl. No.	Name of the Mentor	Title	Duration	Sponsoring agency
1.	Prof. P. Soma and Dr. R. Mukesh	IRNSS Receiver Installation in the ACSCE college campus	Applied and got reply	ISRO
3.	Prof, Jayashree K R	Efficient Automation of Concrete Batching Plant Using PLC & SCADA	6 months (2014- 2015)	KSCST, IISc, BANGALORE
4.	Prof. Rahul Rai	Smart System Tracker	6 Months	KSCST (INR: 4000.00)
5.	Dr.M.Eswaramoorthy	Design, development and experimental evaluation of V- Trough solar air heater with thermal energy storage for drying applications	6 months (2014- 2015)	VGST-TRIP (INR: 30,000)
		experimental evaluation of Solar photovoltaic- thermoelectric with latent heat effect	Two years (2014-2016)	VGST-SMYSR (INR: 400,000)





		Experimental and computational simulation of producing Ultra-fine grained Aluminum silicon carbide composites processed by constrained groove pressing	6 months (2013- 2014)	KSCST, IISc, BANGALORE (INR 5500)
6	Mr.H.S.Siddesha	Automatic Speed control and detection of gas leakage of vehicle using Eye Blink Sensor and Gas sensor	6 months (2013- 2014)	KSCST, IISc, BANGALORE (INR 5500)
		Experimental and computational simulation of producing Ultra-fine grained Aluminum sheet processed by sever plastic deformation	6 months (2014- 2015)	KSCST, IISc, BANGALORE (INR 6000)
7.	Mr Girisha.C	Mechanical properties evaluation of Natural fibers reinforced Bio-Composites and fabrication of a Telephone stand.	6 months (2013-2014)	KSCST, IISc, BANGALORE
		Mechanical and Thermal properties of Nano-Clay dispersed biodegradable polymer Nano-composites for the packaging applications.	6 months (2013- 2014)	KSCST, IISc, BANGALORE (INR 6000)
8.	Prof.R Sivasubramaniyam Dr.M.Eswaramoorthy	Biogas Production From Paper Waste Blend With Cow Dung	6 months 2014-2015	KSCST, IISc, BANGALORE





9.	Ms.Manjula	Self-Curing Concrete	6 months 2014-2015	KSCST, IISc, BANGALORE

Faculties guiding student research (At ACS Research Centres)

S.N o	Guide	Research Scholar	Departm ent	University	Year of Regist ration
1.	Dr C.S Pillai	Ms.B.S Shakunthala Ms.R.Jaya	CSE	VTU, Belagavi	2015 2014
2.	Dr T.Senthil Kumaran	Mr.Mahanteh Mathapati Ms.Sunita S Patil Ms.Kavtia K Patil	CSE	VTU, Belagavi	2015
3.	Dr.M.Eswaramoorthy	Mr GuruMurthy.K Mr Sunil Raj	МЕСН	VTU, Belagavi	2014 2015
4.	Dr. Selvanandan	Anandhi.D	Physics	VTU, Belagavi	2015
5.	Dr. Bhavyashri	Shankar P	Physics	VTU, Belagavi	2014
6.	Dr. Pradeep Kumar K T	Arun Kumar	Mathema tics	VTU, Belagavi	2015

Faculties Pursuing Ph.D.(Outside of ACS Research Centres)

S.	.No	Guide	Research Scholar	Department	University
	1.	Dr. K.B.Raju	Mr. MuniKrishna.D	Bio Medical	VTU, Belagavi

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2.	Dr. M R Shivakumar	Mr. Ananda M H	Electrical	VTU, Belagavi
3.	Dr. M R Shivakumar	Mr. Chandrasekhar S	Electrical	VTU, Belagavi
4.	Dr Sampath Kumar	Mr Shashi Kiran .C.R	CIVIL	VTU, Belagavi
5.	Dr Sada Shivappa	Bharathi Gururaj	ECE	VTU, Belagavi
6.	Dr Venkat Ramana	Ramesha .M	ECE	GITAM, Vaizag
7.	Dr Arvind	Kavitha R. J	ECE	VTU, Belagavi
8.	Dr.K N Narasimha Murthy	Jyothi Metan	CSE	VTU, Belagavi
9.	Dr. R Balakrishna	Ms. M Selvi	CSE	VTU, Belagavi
10.	Dr.A.Muruganandham	Prof Girish	ECE	VTU, Belagavi
11.	Dr. M. Mathivanan	Prof. Vijay Mantesh Prof.Vijaya Kumar	ECE	VTU, Belagavi
12.	Dr H.D.Gopala Krishana	Prof R.Dhanya Prakash	Aero	VTU, Belagavi
13.	Dr Felixkala	Prof S.Kavitha	Civil	Dr. M.G.R. Educational and Research Institute, Chennai
14.	Dr B.V Arunkumar	Prof R.Uma Devi	Civil	VTU, Belagavi
15.	Dr.Dinesh Shankar Reddy	Prof J.Gayathri	Civil	JNTU, Anathapur

3.1.6 Give details of workshops/ training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Aeronautical Engineering

Name of Conference/Work shop/training/symposia/Technical Seminar conducted by Aeronautical Engineering Department





GI N	Name of Con/Work	D (D
Sl.No	shop/training/symposia	Date	Resource person
1	ONE - DAY NATIONAL Seminar on Space Mechanics	[3 rd September 2015]	i) Prof. P. Soma, Retd. Scientist ISRO ii) T.K. Sundaramurthy, Retd. Scientist ISRO.
2	NATIONAL LEVEL STUDENTS TECHNICAL FEST,	[14,15 and 16 th October 2015]	M/S Aerotrix, Bangalore
3.	A guest Lecture on —Enginess Without Borders.	07/05/2015	Dr. Dillibabu Vijayakumar, Scientist, DRDO.
4.	A one day Seminar on — Enabling Technology for Aircraft FBW Systems"	28/03/2015	Prof. Gemson (Ex. DGM ,HAL and Former Principal , MVJ College of Engineering.
5.	Technical Talk on _Advances in Aerospace Propulsion and carrier options for Aeronautical Engineering Students	[6/03/2014]	Dr. R. Venkataram, East Point Research Academy.
6.	A Guest Lecture on —Reent Trends in Aeronautics"	21/02/2015	Mr. Mohan kannan, Flight Operation Analyst
7.	One day seminar was conducted on —Prodet design, Development and Placement opportunities in Chivaro Technologies"	12/02/2015	Mr. Siddarth

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Biomedical Engineering

Sl.No	Name of Con/Work shop/training/symposia	Date	Resource person
1	NATIONAL LEVEL STUDENTS TECHNICAL SYMPOSIUM,	[29 th October 2015]	Mr. Rajeev Ramachandra Chief Technology officer Mistral Solutions, Bangalore
2	Technical Talk on _Fundamentals of Image Processing'	[03/09/2015(Thursday)]	Mr .Ravindranath.K Asst.Prof, D.B.I.T, Bangalore
3	Technical Talk on —Hospid Work flow",	30/10/2015 (Friday)	Ms Renita Olinda Fernandas Senior Software Engineer Philips Electronics, Bangalore
4	Technical Talk on —MSP 430 and emlator board",	31/10/2015 (Saturday)	Ms Nithya.S Design Engineer, DigiBee Techsys,Bangalore
5	Seminar on —Reseach, Patent and Publish",	25/01/2016	Dr Dinesh .K.Anvekar Principal, Alpha College of Engineering
6	2 day workshop on — Image Processing and its applications"	27/1/2016 & 28/1/2016	Head of Department, BME and faculty members

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Civil Engineering

SI.	TOPIC	DATE	RESOURCE PERSON
1.	Water Resource and Climate Change	12 th Aug, 2015	Dr H.K Ramaraju, Professor/Civil SJBIT, Bangalore.
2.	Structural Mitigation options for liquefaction failures during earth quake	18 th Aug, 2015	Dr Prathapkumar HOD/Civil RNSIT Bangalore.
3.	Seminar on Utilization Of Plant Materials In Water Treatment	29 Sept 2015	Dr L UdaysimhaProfessor BMSCE Bangalore
4.	Seminar on Analysis and design of buildings using BIM Software	19 Oct 2015	Sri. S. N. Amarnath, FE Design Bangalore
5.	Seminar on Design of Structures using RIVET	20 October 2015	Sri.Bhanu Prakash Dixith

Computer Science Engineering

Name of Conference/Work shop/training/symposia/Technical Seminar conducted by

SI. No.	ТОРІС	DATE	RESOURCE PERSON
1	Seminar on Software Testing	27-02-2015	DevanadPrasadV Md Gensoft ItIndia Bangalore
2	Seminar on JAVA	09-03-2015	Mr.Pradeep Kumar Software Enginner Big Perl Solution

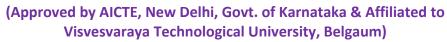




3			DevanadPrasadV Md
			Gensoft ItIndia
	Seminar on Software	16-03-2015	Bangalore
	Engineering And Testing		
4	~		Mayank Rm
	Seminar on Higher		VisuAcademy
	Studies	17-03-2015	Ltd.
	In broad/Training		Eta.
5	Seminar on Higher	20.02.2015	Europe Study Centre Ltd.
	Studies In Europe	30-03-2015	Bangalore
6	One Day national	31-03-2015	Department OfCSE,
	Conference on Signal		ACSCE
	Processing, Computing		
7	One Day Workshop on	13-04-2015	Eikon Technologies
	Ethical Hacking And Cyber		Bangalore
	Security		
8		20-04-2015	Mr. Rohith
	One Day Workshop		Edu_Kinect
	Microsoft Tools		Hyderabad
9	One day workshop on MS	11-01-2016 to	CSE Department Faculties
	Office	12-01-2016	

Electrical and Electronics Engineering

SlNo	Name of Con/Work shop/training/symposia	Date	Resource person
1	Technical seminar on —Atomation Control"	16-Mar-2015	Mr. Venugopal Venjay Automation Bangalore
2	FDP program lecture on —Peformance verification of Thyristor	20-June-2015	Dr. Arunachalam H.O.D EEE Dept. RRCE, Bangalore





	Controlled Series		
	Capacitor(TCSC) control		
	and protection		
	equipment using Real		
	Time Digital		
	Simulator(RTDS)."		
	Technical Talk on FOCS	05-01-2015	Mr.Ananda M.H
3			AP/EEE,
			ACSCE, Bangalore
	Technical Talk on	16/6/2015	Mr.Ananda M.H
4	Rectifier Protection		AP/EEE,
			ACSCE, Bangalore

Electronics and Communication Engineering

S.No	Name of t the Event	Date	Event conducted By
1.	One Day workshop on —Texas Instruments ALX Pro:"	12-09-2014	Ed Gate Technologies. Pvt. Ltd., Bangalore
2.	One Day workshop on –ARM Processor:"	08-08-2014	Embiance Technologies Bangalore
3.	One Day Seminar o—Intel Galileo- Features and Applications:"	23-03-2015	Intel Fice, Bangalore
4.	One Day workshop on" Make objects, gadgets & Robots using Microcontroller"	27-03-2015	ERP Labs Bangalore.
5.	One Day National conference on —SPØ15"	31-03-2015	Department of ECE

Mechanical Engineering

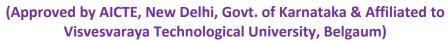
S	.No	Name	of	Con/Work	Date	Resource person
		shop/train	ing/sym _l	posia		
		One - Day	Nationa	ıl	28/09/2012	i) Dr.K.N.Seetharamu,
		Workshop	On Cfd	-2k12		Retd. Prof.,IIT-Madras
1						ii) Dr. Gaurav Tomar,
						Prof., IISc, Bangalore.
						iii) Dr.Ramanamurthy,

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			Scientist E5. GTRE, Bangalore		
	National Level Students	10 th May	i) Dr.Shantharaja.M		
	Technical Symposium,	2013	Professor, Mechanical Engineering		
			Department, UVCE,Bangalore		
2			ii) Dr.Gopal Krishna		
			Professor, Mechanical Engineering		
			Department, Jain University		
			Bangalore.		
		27/09/2013	Dr.D.K.Ramesh,		
	Technical Talk On		Professor,		
3	_PROJECT		Mechanical Engineering Department,		
3	METHODOLOGIES'		University Visvevaraya college of		
			Engineering,		
			Bangalore-01		
	Technical Talk On	08/03/2014			
	—FINITE ELEMEN		Mr.GangaReddy,		
4	METHODS AND ITS		Senior Manager,		
	APPLICATIONS",		HCL Technologies, Bangalore		
	APPLIED FINITE ELEMENT	06/09/2014	Prof. Gunti Ranga Srinivas,		
	ANALYSIS" In Automotive		Center for Product Design and		
5	Engineering, Aerospace		Manufacturing		
	Engineering, Biomedical		(CPDM), Indian Institute of Science,		
	Engineering And Injury Bio-		Bangalore		
	Mechanics.				
	-rhagine, Inspire And		Dr. C. B. Vijaya Vittala,		
6	Innovate" (Innovations In	27/02/2015	Professor and Head (R & D),		
	Engineering)		HMSIT, Tumkur.		
	One day Workshop on	17/11/2015	Mr.C.R.Pradeep, Officer of Patent		
7	intellectual Property Rights		Information Centre (PIC) KSCST, Mr.J		
			Vikas Patent Attorney and Mr. Nikhil Reddy Senior Associate of K & S partner.		
			Reduy Selliof Associate of K & S partner.		

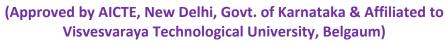




	Four days VTU-VGST Faculty	22-06-	Dr Anantha Raj, Executive Secretary ,
8	Development program on	2015 to	VGST, GoK, Dr. Vijay Vittala, HMSIT,
	—Sustinable Product Design	25-06-	Tumkur, Dr R. P. Swamy UBDT CE,
	and Manufacturing"	2015	Davangere, Dr. M. VijayKumar,
			JSSATE, Bengaluru.
	One Day International	07/01/2016	Dr.Subramanium Arunachalam
	Workshop On Preparation Of	PhD , University of East London,	
9	Research Articles And Funding		school of Architecture, Computing
	Research Proposals		and engineering,
			Dockland Campus, 4-6 University
			way, London E16, 2 RD, UK
	MNRE Sponsored National	25th – 26th	Dr Anitha, RV college of Engg,
	Workshop on Challenges and	Feb. 2016	Bangalore
	Opportunities on Renewable		De Nibil National institute of salar
	Energy Conversion Technologies		Dr Nikil, National institute of solar
			energy, New delhi
			Dr Naganagowda, Director National
			Centre for Solar PV training
10			Bangalore.
			Dr Shankashetty, RRCE, Bangalore
			Dr RusiPrasad, DBIT, Bangalore.
			, , ,
			Dr BiraGowda, GCE, Bangalore.
			Dr M.C. Math, VTU, Mysore

Department of Mathematics

Sl.No	Topic	Date	Name Of Scientist/Visitor
1	Nano Fluids	5/09/2015	Dr.I S Shiva Kumar Professor Bangalore University
2	Einstein Manifolds	03/10/15	Dr.Venkatesh





			Professor
			Kuvempu University
	Finite Element Method	07/11/15	Dr. Veerappa Gowda
2			Professor
3			Tifr
			Bangalore

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

S.No	Expertise	Researchareas
1.	Prof. P. Soma	Satellite Navigation
2.	R.R. Elangovan	Vibrations and Aero Elasticity
3.	Dr. R. Mukesh	Aerodynamic Optimization
4.	Dr.Punal.M.Arabi	Bio Medical
5.	Dr W P Premkumar	Solid Mechanics
6.	Dr C.S Pillai	Data Mining
7.	Dr T.Senthil Kumaran	Networks
8.	Dr.A.Muruganandham	Image Processing
9.	Dr. M Mathivanan	Speech Processing
10.	Dr.M.Eswaramoorthy	Solar Thermal Engineering
11.	Dr.Raju.B.R	Polymer Matrix Composites
12.	Dr S.S Patil	Power Systems

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

S.No	Name of the Resource person	Title of the Workshop	Date
1	Dr. Subramanium Arunachalam	International workshop on	07-Jan-2016
	PhD , University of East London,	preparation of Research	
	school of Architecture, Computing	articles and funding research	
	and engineering , Dockland	proposals	
	Campus, 4-6 University way,		
	London E16, 2 RD, UK		
2	Dr Dinesh .K.Anvekar	Seminar on — Research,	25 Jan-2016

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	Principal, Alpha College of Engineering	Patent and Publish"	
3	Dr.Viresh.K.Basalalli Former Register of VTU, Belagavi	Engineer's Day and inauguration of Research Forum	15 th September 2015.
4	Dr Anantha Raj, Executive Secretary, VGST, GoK	Four days VTU-VGST Faculty Development program on —Sustinable Product Design and Manufacturing"	24th June 2015
5	Dr. Vijay Vittala, HMSIT, Tumkur	Four days VTU-VGST Faculty Development program on —Sustinable Product Design and Manufacturing"	22nd June 2015
6	Dr R. P. Swamy UBDT CE, Davangere	Four days VTU-VGST Faculty Development program on —Sustinable Product Design and Manufacturing"	22nd June 2015
7	Dr. M. VijayKumar, JSSATE, Bengaluru	Four days VTU-VGST Faculty Development program on —Sustinable Product Design and Manufacturing"	23rd June 2015
8	Dr.Suresh.B., NIE, Mysuru	Four days VTU-VGST Faculty Development program on —Sustinable Product Design and Manufacturing"	23rd June 2015
9	Dr.Suresh, Alliance University	Four days VTU-VGST Faculty Development program on —Sustinable	23rd June 2015

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	Product Design and
	Manufacturing"
10 Dr Nikil, National institute of solar	MNRE Sponsored National 25th - 26th
energy, New delhi, Dr Naganagowda, Director National Centre for Solar PV training Bangalore.	Workshop on Challenges and Opportunities on Renewable Energy Conversion Technologies

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

No sabbatical leave being granted so far. Any request for leave to do the research work has been considered on case to case basis. Leave would be normally granted for data collection, Course work examination, DC meeting, Guide meeting and also while writing thesis. However the Institute fully extends its support for any kind of research initiatives by the faculty.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land).

- Paper publications in reputed journals & peer reviewed journals like IEEE, Elsevier, ASM, Wiley,RSC, IEEEXplorer, Inderscience, Current Science, Springer, SAGE and various other international journals.
- Conferences/ seminars/ symposium are conducted regularly in various departments. This helps in formulating new research proposals.
- Students (both UG and PG) are involved in R&D projects funded by various organizations, this leads to joint publications at National/International level.
- Common research centre with facilities a provided for research work.
- Research Cell team periodically conducts awareness program for students and faculties.

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3.2 Resource Mobilization for Research

- 3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.
- e-journals(IEEE, Springer, ASCE, Mc.Graw.Hill, Elsevier, J-Gate, ASTM)= Rs 16, 42,586/-
- VTU-Consortium e-Resources to the Library= Rs12,71,072/-

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

The institution has a provision to provide seed money to the faculty for research. The faculty members have to submit their research proposal along with budget to the head of the institution and they have to present the same in front of other faculty members and research committee at Research Centre. On approval of the proposal the seed money will be sanctioned to the faculty.

3.2.3 What are the financial provisions made available to support student research projects by students?

- The registration fee to participate and present research papers at seminars and conferences are reimbursed for students to encourage them to take part in such competitions and events conducted by various other institutions.
- Student and Faculty Collaborative research projects will also get funding from the institute.
- KSCST and VGST funds for projects.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavours and challenges faced in organizing interdisciplinary research.

Encouragement being given and support is extended to write research papers by the faculty on interdisciplinary issues. After the data being collected for the research intensive discussions will be held before the papers being written and extensive research may be taken up on the larger interest.

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- During the academic year 2015-2016 Aeronautical, ECE and CSE departments jointly sent a Proposal for getting the IRNSS receiver from ISRO.
- During the academic year 2013-2014 Mechanical and Chemistry department jointly carried out a UG research Project entitled —Mechanical and Thermal properties of Nano-Clay dispersed biodegradable polymer Nano-composites for the packaging applications." This project was adjudged as the Best project in the State level Students Project Exhibition held at Sri Siddhartha Institute of Technology, Tumkur, The Event was TECHNODIA-2014,
- A Technical Paper on this project Bagged Second place in the National Level Conference held at Jyothi College of Engineering, Bangalore.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

- The Institute encourages staff and students for research activities; Digital Library and three well-equipped computer labs are available, all are used by students for various research work.
- Research based assignments are given to the students so that they will use the available resources and the faculty monitor the same.
- Well-stocked library is available which supports faculty and students in their research.
- Free access to Ebsco and J-Gate databases for staff and students are available. Whenever students and faculty are writing papers for conferences are asked to use these data basis.
- Faculty members are also using these data bases for their research purposes.
- Faculties are insisting on students to refer such data bases for literature survey during the dissertation.
- Faculty members are instructed to present the progress of their research work periodically. Fully equipped Research Centre is available in the institute. Faculty member can do their research work in an exclusive atmosphere. Research progress presentation by faculty members happens in this center regularly.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If _yes' give details.

YES: VGST sponsored fund for institution.





Sl. No.	Name of the Mentor	Title	Duration	Sponsoring agency
1.	Prof. P. Soma and Dr. R. Mukesh	IRNSS Receiver Installation in the ACSCE college campus	Applied and got reply	ISRO
2	Dr.M.Eswaramoorthy	experimental evaluation of Solar photovoltaic- thermoelectric with latent heat effect	Two years (2014-2016)	VGST-SMYSR (INR: 400,000)

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

Sl. No.	Name of the Mentor	Title	Duration	Sponsoring
51. 140.	ivalie of the Mentor	Title	Duration	agency
		IRNSS		
		Receiver		
1	Prof. P. Soma and	Installation in	Applied and	ISRO
1.	Dr. R. Mukesh	the ACSCE	got reply	ISKO
		college		
		campus		
		experimental		
		evaluation of		VGST-
		Solar	Two years	SMYSR
2	Dr.M.Eswaramoorthy	photovoltaic-	•	
		thermoelectric	(2014-2016)	(INR:
		with latent		400,000)
		heat effect		

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Faculty members are encouraged to get funds or grants to take-up research projects. However the institute has provision to financially support the research works of the faculty members. Certain organizations in the service sector have availed academic support to their research work and for presentation modules and models to be submitted to their authorities to seek support for its application.

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

The institute has well planned Research Center with required infrastructure to carry out research activities smoothly. Available facilities are-

- Cubicles with computers and internet facility to carry out research work
- Discussion table with adequate sitting arrangements
- LCD projector, Audi-Video facility and
- Books for necessary reference, Research Journals etc.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The Research Committee headed by the Principal of the institute does strategic planning on infrastructural developments for research. The institute continuously upgrades the infrastructural facilities to meet the needs of the faculty and students to take-up projects on emerging areas in management and societal issues.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If _yes', what are the instruments / facilities created during the last four years.

Yes, the mechanical department has received Rs.4, 00,000/- from VGST (Vision group of science and technology) to develop Non- Conventional energy laboratory.

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3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories? Excellence in Higher Education

YES: Chemistry Research centre collaboration with RRCE

CSE and EC Dpt. Have MOU with Industry. Other depts. Are in process.

MOU with industry and Institutions to carryout research

- Computer science and engineering department MOU with CMS-IT Services (Pvt. Ltd.), Bangalore
- Mechanical Engineering department MOU with MGIRED Bangalore
- Bio Medical Department MOU with RRMCH, Bangalore
- Aeronautical Engineering department MOU with following Companies

TAAL, Hosur

E2K Tech, Hosur

Unique Lab Equipment's, Chennai

Unmanned Engineeria, Chennai

Vayu Aerospace, Hosur

Jetwings, Hosur

Global Aviation Services, Malaysia

- Civil Engineering department MOU with FE Designs, Bangalore.
- Electronics and Communication Engineering Department MOU with World Alumni Network Private Limited & TCS Bangalore.
- Electrical and Electronics Department MOU with VenJay Automation Private Limited.

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

Journals, e-journals, WIFI, Research lab, VTU e-learning, EDUSAT\

Sl No	Name of e – Journals	URL Links
1	IEEE	http://www.ieeexplore.ieee.org

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Sl No	Name of e – Journals	URL Links	
٠			
		Back Titles from 1872/td>	
2	Springerlink CSE/EEE/Mech	www.springerlink.comBack titles from 1997 to till dat e	
3	ASCE (Civil Engg)	http:// www.ascelibraryBack files from 1983 to till dat e	
4	J-Gate	http://www.jgateplus.com	
5	K-Nimbus	http://knimbus.com	
6	ASTM Digital library	myastm.astm.org	
7	Elsevier	www.sciencedirect.com	
		www.india.myelsvier.com	
8	Mc.Graw Hill (Gen.Eng. &Ref)	httt://2.accessengineeringliberary.com	

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college? For ex. Laboratories, library, instruments, computers, new technology etc.

There is a Common Research lab available in our institute which provides computing, Internet Facility, High Voltage Laboratory, DSP Lab, Material Testing Lab, Hydraulics

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hydraulic Machinery & E journal Facilities. People who are pursuing Ph.D / M.tech students to utilize research lab.

3.4 Research Publications and Awards

- 3.4.1 Highlight the major research achievements of the staff and students in terms of
- * Patents obtained and filed (process and product)
- * Original research contributing to product improvement
- * Research studies or surveys benefiting the community or improving the services
- * Research inputs contributing to new initiatives and social development

Mr. Prashanth mitted for registration of a patent entitled —MethodSystem and Apparatus for an Efficient Floor Panel Material for S. Manvi has sub Aircraft", through Om Sai Patent Services.

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If _yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

Yes: To start new journal for college (ACSCE journals)

—Intenational Journal Of engineering and researches"

The Editorial Advisory Panel consists following eminent researchers and industry experts:

- 1. Dr.M.Manikandan, Manager Jupiter Networks, USA.
- 2. Dr R.S.D Wahida Banu, Principal Govt College of Engineering, Salem.
- 3. Dr. S Revathi, Profesor, B.S Abdur Rahman University, Chennai.
- 4. Dr. D.P, Griesh, Professor, Govt. College of Engineering, Bangalore.
- 5. Dr. Nagabhusan, Professor, BMS College of Engineering, Bangalore.
- 6. Dr. Senthil Arasu, Exciter University, UK.
- 7. Dr Ganesh Rajagopalan, IOWA State University, USA

The Principal of the institute is the Chief Editor of the Journal and the Editorial Team of the Journal consist faculty who are members of the Journal Committee. The committee ensures quality of the journal. It considers original research papers with respect to functional areas of management, real time case studies and papers on application of management concepts in issues relating to society. It takes maximum care to check plagiarism, scope of the study, methodology and relevance of the topic.

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- The Journal Committee invites research papers from academicians, research scholars and researchers from industry in the prescribed format.
- The papers received from the authors will be first reviewed by the committee members based on specialization.
- The selected papers will be sent to the identified reviewers (a list of reviewers is maintained at the institute) for blind review and for suggestions.
- The papers which are accepted by the reviewer will be considered for publication in the Journal. If the reviewer suggests some modifications hen the paper will be sent along with the reviewers comments to make suitable modifications to the paper.
- Once the committee receives the paper with suggested modifications from the author will be considered for publication.
- The authors will be asked to submit the copyright in the prescribed format.
- After editing of the paper for language and format it will be sent to the press for final printing.

3.4.3 Give details of publications by the faculty and students:

- * Publication per faculty
- * Number of papers published by faculty and students in peer reviewed journals (national / international)

S. No.	Name of the Teacher	Title of the Paper	Publication Citation	Date/Year of Publication	National or International Journal
			The Arabian		
		-Kriging Methodology	Journal for	2014, Vol.	
		for Surrogate-based	Science and	39, No. 10,	International
1	Dr. R.	Airfoil Shape	Engineering.	Pages.	Journal
1.	Mukesh	Optimization"	(Impact	7363-7373.	
			Factor: 0.45)		
		-Airfoil Shape	Journal of	2013.	International
		Optimization Using	King Saud	2013.	Journal





		Non-Traditional	University -		
		Optimization Technique	Engineering		
		and its Validation	Sciences.		
			Elsevier		
		→Iffluence of Optimization Algorithm on Airfoil Shape Optimization of Aircraft Wings"	Applied Mechanics and Materials. Transtech.	2012, Vol. 232, Pages. 614-619.	International Journal
		Application of Non Traditional Optimization Techniques for Airfoil Shape Optimization	International Journal of Modelling and Simulation in Engineering. Hindawi.	2012.	International Journal
		Design Optimization airfoil and its Validation using Wind Tunnel	Australian Journal of Basic and applied Sciences.	2014 Pages.476- 482	International Journal
		—Aerodynanic Optimization Using Simulated Annealing and its Variants"	International Journal of Engineering Trends and Technology	2013	International Journal
2.	Venkatesh	Study of deflagration to detonation transition length in single cycle H2O2 pulse detonation engine.	International Research Journal of Engineering and Technology.	2015, Vol. 2, Pages. 1021-1024.	International Journal

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3.	Melvin Philip	Design optimization of a ducted fan blended wing body UAV using CFD analysis.	International journal of engineering research and technology.	2015	International Journal
4.	Jensin Joshua	Fluid Structure Interaction	International Journal of Mechanical and Production engineering.	2014	International Journal

* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Citation Index – Yes

Dr. R. Mukesh: Scopus: 07

Impact factor -0.5

SI no	Name of the Teacher	Title of the Paper	Publication Citation	Date/Year of Publication	National or Internati onal Journal
1	Dr.Punal.M.Ar abi	1) Early Diagnosis of Breast Carcinoma by Active Thermogram	IFMBE proceedings, Springer Publications.	volume 21, Pages 563- 565 2008	Internati onal conferen ce
		2) Image Enhancement for Detection of	IEEE explore Digital Library.	2010	Internati onal conferen

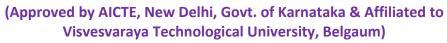


	Early Breast			ce
	Carcinoma by			
	External			
	Irradiation			
[3)	3			
	by FIR and	Biometrics and		
	Microwave	Bioinformatics,	January	Internati
	Sources for Early	CII	2011	onal
	Detection Of		2011	Journal
	Breast			
	Carcinoma			
4)	Breast Carcinoma			
	Detection at Early			·
	Stage by FIR	IEEE explore		Internati
	Radiation of	Digital Library	2008	onal
	Microwave			conferen
	Heated Breast			ce
	Tissues			
5)	Image			
	Enhancement by	Journal of	Article No.	
	Microwave	applied	291311 -	Internati
	Double Irradiation	science,	JAS –	onal
		Science Alert-	ANSI-	Journal
	3	(SCOPUS		Journal
	Diagnosis Of	INDEXED).	2011	
	Breast Carcinoma			
6)	Microwave	International		
	Multiple	Journal of		Internati
	Irradiation for	Biometrics and	Issue: April	onal
	Breast Carcinoma	Bioinformatics.,	2011	Journal
	Detection at Early	CII		
	Stage			
7)	Multiple	<u>Procedia</u>	Volume 38,	Internati
	Irradiations by	Engineering, ,	2012, Pages	onal
		I	<u> </u>	



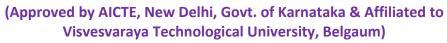


Hybrid Source for Early Breast Carcinoma	Elsevier	2398–2412	Journal
Detection			
8) Early diagnosis of breast cancer	Proceedings of National Conference on Signals, Systems, Security	2006	National Conferen ce
9) Early diagnosis of skin cancer		2007	National conferen ce 2007
10) Water purification using UV-LEDs	Proceedings of National Symposium on Instrumentation NSI Indian Institute of Science		National Symposi um
11) Water Disinfection Using UV LEDs	Conference Proceedings , Ultrapure Water Asia, Water Hub, Singapore.	2006,	Internati onal conferen ce
12) Colour Face Recognition : A Novel Recognition Method	International Journal Of Engineering And Computer Science	ISSN:2319- 7242- Volume 2 Issue 5 May, 2013 Page No. 1621- 1625	Internati onal Journal





Approach for Efficient SkullStripping Using Morphological Reconstrction And Thereholding techiques	International Journal of Engineering Research and Technology- pp .96-101	pp .96-101.	Internati onal Journal
14) An Effective image processing Technique for finding Brain Tumor Volume	Asian Journal of Information Technology	13(10):653- 656,2014.	SCOPUS indexed Journal
15) Computer Aided Diagnosis For Brain Degenerative Disease	Proceedings of 4th International Conference on —Advanced Computing,Contr ol Systems, Machines and Embeded Technology"	1121-1125- ISBN:978- 93-80757- 74-2	Internati onal Conferen ce
16)—Texture Comparison between normal and Alzeimer affected brain MRI images using range filter"	Proceedings of International Conference on —Computing, Communication and Electrical Technologies"	pp.197-201. 2014	Internati onal Conferen ce





17) Segmentation of			
Cerebrospinal	Proceedings of		
fluid for	International		
hydrocephalus	Conference on		Internati
affected T2	—Computing,	pp.277-280	onal
weighted MRI	Communication	2014	Conferen
Images using	and Electrical		ce
Theresholding	Technologies		
Techique"			
	International		
18) Maximizing the	Journal of		
Lifetime of	Engineering and		
Cognitive Sensor	Applied	Vol. 10,	Internati
Network Using	Sciences, Asian	No.4, March	onal
Sub Fusion	Research	2015	Journal
Centres"	Publishing		
	Network		
	(SCOPUS		
	INDEXED)		
	International		
	Conference on		
	Pattern		
19) Mathematical	Recognition and		
Analysis and	Multimedia		
Performance	Signal Processing		Internati
Evaluation of		Pp.4658-	onal
Mobile Agent	International	4664	Journal
Based Mobile	Journal of		
Banking System	Applied		
	Engineering		
	Research (IJAER		
	- SCOPUS		
	indexed Journal)		

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		International		
20) Computer	Aided	Journal of		
Diagnosis	of Brain	Applied	Pp.4636-	Internati
Tumor i	n MRI	Engineering	4643, Vol.9,	onal
Images.		Research (IJAER	No.20	Journal
		- SCOPUS		
		indexed Journal)		
			Vol. 10,	
21) – Maximiz	zina the		No.7, April	
	me of		2015 (
cognitive		ARPN Journal of	SCOPUS	Internati
network	using	Engineering and	indexed) -	onal
cluster He	Č	Applied Sciences	Asian	Journal
Cidstel III			Research	
			Publishing	
			Network	
22) A Novel	•		Vol. 10,	
Techniqu			No.7, April	
variable	fiber		2015 (
	of 32-	Journal of		Internati
	DWDM	Engineering and	indexed) -	onal
		Applied Sciences		Journal
Hybrid A	_		Research	
and DCF.			Publishing	
	- ·		Network	
23) A Novel	_	International		
Technique		journal of future	Vol.1,	T 4
Channel	DWDM	innovative	issue.1, June	Internati
System	with	Science and	20152	onal
Hybrid A	Amplifier	Engineering		Journal
and DCF.		Research		





		24) A Survey on performance of Various Tunnel Transition Techniques 1) Design and Development of Battery management system for	International Journal of Advanced Research Trends in Engineering and Technology "CCSMA"- ETBMSP-11	Special Issue .I, March	Internati onal Journal Internati onal Conferen
2	MuniKrishna.D	Electric vehicle and Hybrid vehicle 2) Battery management system for EV and HV	CCSO 2011	2011	National Conferen
3	Gayatri Joshi	Computer vision for diagnosis of malignant melanoma by pixel intensity matrix parameters	International conference on intelligent systems and control-2016	2016	Internati onal Conferen ce
4	Prathibha.T.P	Fuzzy Logic System for classification of Lung nodule in digital images in computer aided	National Conference on Computer Networks and Soft computing 2012	2012	National Conferen ce





		detection			
		2) Identification of ground glass structure in lung CT images by CAD technique	International conference on intelligent systems and control-2016	2016	Internati onal Conferen ce
	Surekha	Nanotechnology and Nano education	International conference on Nanotechnology	2011	Internati onal Conferen ce
5 Nigudgi	2) Computer vision for diagnosis of malignant melanoma by pixel intensity matrix parameters		2016	Internati onal Conferen ce	
6	Nanditha Krishna	Image enhancement using bicubic spline interpolation Comparative study of two	"Emerging Trends in Biomedical Signal Processing"- ETBMSP-11 "Computational Control Systems	2011	National Conferen ce
		interpolation techniques for enhancement and expansion of MR images	Control Systems and Optimization"-CCSO 2011	2011	National Conferen ce

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		3) Identification of ground glass structure in lung CT images by CAD technique	conference on intelligent systems and control-2016	2016	Internati onal Conferen ce
		Texture features extraction for classification of ultrasonic liver images	Current Trends in Engineering &	2012	Internati onal
7	Vamsha Deepa.N	Identification of ground glass structure in lung CT images by CAD technique	conference on intelligent systems and control-2016	2016	Internati onal Conferen ce
		3) Computer vision for diagnosis of malignant melanoma by pixel intensity matrix parameters	International conference on intelligent systems and	2016	Internati onal Conferen ce

* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs- NO

Chapter in Books- 02

Books Edited - NO

Books with ISBN/ISSN numbers with details of publishers -NO

Citation Index –04

SNIP - 02

SJR - NO

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Impact factor – NO h-index - 03

Civil Engineering

Sl no.	Name of the Teacher	Title of the Paper	Publication Citation	Date/Year of Publication	National or International Journal
		Experimental and Finite Element Studies on Buckling of skew plates under uniaxial compression		2013	International
		Finite Element Studies on Buckling of Laminated Cylindrical Skew Panels		2013	International
1	Dr. W P Premakumar	Experimental and Finite Element Studies on Free vibrations of Cylindrical Skew Panels		2014	International
		Finite Element Studies on free vibrations of laminated composite Cylindrical Skew Panels		2014	International
		Experimental and Finite Element Studies on Free vibrations of Skew Panels		2014	International
		Influence of Steel fibers and partial		2014	International



replacement of sand			
by iron ore tailings on			
the compressive and			
splitting tensile			
strength of concrete			
Effect of partial			International
replacement of cement			
with waste glass		2014	
powder on the			
properties of concrete			
Experimental and			International
Finite Element studies			
on Buckling of		2014	
laminated E-Glass		2014	
Woven Fabric Epoxy			
Composite Plates			
Force and			International
Deformation			
Responses of Tall		2014	
Reinforced Concrete			
building Frames			
Support Vector			International
machines Technique		2014	
in analysis of Concrete		2014	
– Critical Review			
Experimental and			International
Numerical studies on			
Free Vibration		2015	
characteristics of a			
three storied Building			
Frame			
Prediction of		2015	International
Deflection of			



Reinforced concrete			
Beams using Machine			
Learning Tool			
Force and			International
Deformation Response			
of U shaped Multi		2015	
Storeyed Reinforced			
concrete buildings			
Effect of Partial			International
Replacement of			
Cement in Self		2015	
Compacting Concrete		2013	
by Fly ash and			
Metakaolin			
Influence of Plan			International
dimensions, Seismic			
zone, infill on the		2015	
behavior of I shaped		2013	
reinforced Concrete			
buildings			
Influence of Plan			International
dimensions, Seismic			
zone, infill on the			
force and deformation		2015	
response of T shaped			
reinforced Concrete			
buildings.			
Strength			International
Characteristics of		2015	
Glass Fiber			
Reinforced Self			
compacting Concrete			
with Fly Ash and			





		Silica Fume			
		Numerical Simulation			International
		of Masonry Prism Test		2015	
		using ANSYS and		2013	
		ABACUS			
		Recycled plastics & crushed rock powder			
		as coarse aggregate			
		and fine aggregate in			
		structural concrete.	IJRAF	2015	International
		Vol. 2, Issue 2,			
		February 2015.			
		1 cordary 2013.			
		Seismic performance			International
		of a RC frame with			
		soft storey criteria.	IJRET	2015	
		Vol. 4, Issue 3, March			
		2015			
1	Umadevi R				
		Seismic vulnarabality			International
		of flat plate column			
		joint without slab			
		shear reinforcement.	IJRET	2015	
		Vol. 4, Issue 4,April			
		2015			
		Comparative study Of			International
		Courbons method and			
		FEM Of RC T beams	IJEMR	2015	
		and Deck slab bridge			

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		Recycled plastics & crushed rock powder as coarse aggregate and fine aggregate in structural concrete. March 2015	IJRAF	2015	International
2	Suganda N	Experimental and numerical simulation of ballistic impact on glass fibre reinforcement composite panals. March 2015	IJIRR	2015	International

* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs- NO

Chapter in Books- No

Books Edited - NO

Books with ISBN/ISSN numbers with details of publishers - No

Citation Index – yes

Impact Factor -5.0

Computer Science and Engineering

SI no	Name of the Teacher	Title of the Paper	Publication Citation	Date/Year of Publicatio n	National or Internation al Journal
	Dr	An Effective Reliable	International		
1	T.Senthil	Broadcast Code	Journal of	2015	International
	Kumaran	Dissemination In	Electrical		



Wireless Sensor Networks	Engineering & Technology (IJEET) 6 (7)		
Cross Layer Design Approach for Power Control in Manet	Egyptian Informatics Journal 16 (1), 1-7	2015	International
An Energy Efficiency Distributed Routing Algorithm Based on HAC Clustering Method for WSNs	Indian Journal of Science and Technology 7 (S7), 66-75	2014	International
Smart Route Discovery in MANET using Ordered Walk	International Journal of Computer Applications 70 (4)	2013	International
Congestion Free Routing in Adhoc Networks" Journal of Computer Science	Journal of Computer Science 8 (6), 971	2012	International
Dynamic congestion detection and control routing in ad hoc networks	Journal of King Saud University- Computer and Information Sciences	2012	International
Early congestion detection and optimal control routing in MANET	European Journal of Scientific Research 63 (1), 15-31	2011	International
Early congestion detection and adaptive routing in MANET	Egyptian Informatics Journal 12 (3), 165-175	2011	International





			Computer		International
		Early Congestion	Networks and		
		Detection and Self	Information	2011	
		Cure Routing in Manet	Technologies,		
			562-567		
			Wireless And		International
		Early detection	Optical		
		congestion and control	Communications	2010	
		routing in MANET	Networks		
			(WOCN), IEEE		
		Robust and Secure Key			International
		Management in WSN	ICERECT-15,	2015	
		using Arbitrary Key-	IEEE	2010	
		Deployment			
		Group Key	international		International
		Management	journal of		
		Techniques based on	computer	2015	
		Logic Key Tree in the	application (0975-		
		Field Of Wireless	8887) volume		
		Sensor Network	117- no 12.		
		A survey on challenges			National
2	Jyoti Metan	of LBS for preserving	SPCN-15	2015	
		location Privacy in			
		mobile Network			NY 1
		PKI approach to			National
		Enhance the security in	NOAFIC 11	2011	
		RFID based	NCAEIC-11	2011	
		Authetication system			
		in E-passport	Innovativa		International
		Maying from WANIET	Innovative Research in		International
		Moving from VANET to Vehicular Network		2014	
		to veinculal Network	Computer and Communication		
			Communication		

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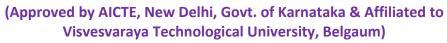


			Engineering (IJIRCCE)		
		1) Improved Traditionalist Flock Inheritance Algorithm Based Prevention of Credit Card Fraud Detection for Online and Offline Transaction	International Journal of Recent Advances in Science Engineering Volume 1, Issue 8, October,2015	2015	International
3	Mareeswari V	2) Improved Sheep Flock Heredity Algorithm Based Prevention of Credit Card Fraud Detection for Online and Offline Transaction	Research ISSN 0973-4562 Volume 10, Number 6 (2015)	2015	International
		3) Data stream mining based resilient identity fraudulent detection	ICICES2014 - IEEE	2014	International
		4) Improving identity crime detection using Scheduling for Fast Response Multi-pattern	International Journal of Advanced Research in Computer Science	2014	International

age 133



		Matching over	Engineering and		
		Streaming Events	Information		
			Technology		
			Volume: 3 Issue: 1		
			26-Jun-		
			2014,ISSN_NO:		
			2321-3337		
		5) Privacy Preserving			
		Through Shared	SPCN-15	2015	National
		Access in Cloud	SPCN-13	2013	National
		Computing			
		6) Encrypted Receipt	International		
		with Session	Jornal of		
		Management In	Engineering	2013	International
		Multihop Wireless	Research &	2013	International
		Network for	Technology		
		Secure Payment	(IJERT)		
		7) Privacy Preserving			
		Multi-Keyword			
		Rank search over	SPCN-15	2015	National
		Encrypted Cloud			
		Data			
		8) Advanced Student	ICCCE 2012	2012	
		Tracking System	ICCCE-2012	2012	International
		1) —Sensorcloud":			
		Offering Useful			
		Data Reliably			
4	Mahantesh	to Mobile	SPCN-15	2015	National
	Mathapati	Cloud from			
		Wireless Sensor			
		Network			

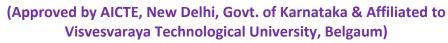




		2) Secured Image Compression Using Gradient Decent Based ANN Learning	SPCN-15	2015	National
		3) Decentralized access control with anonymous authentication of data stored in clouds	SPCN-15	2015	National
6	Kavita K. Patil	A Survey on different Sybil attacks and defense mechnisms	SPCN-15	2015	National
6	Sunita Chalageri	1)Privacy Preserving Multi- Keyword Rank search over Encrypted Cloud Data	SPCN-15	2015	National
		2)Privacy Preserving Through Shared Access in Cloud Computing	SPCN-15	2015	National
7	Shivaprasd H K	4) Secured Image Compression Using Gradient Decent Based	SPCN-15	2015	National



		ANN Learning			
		PACK:Prediction based cloud bandwidth and cost reduction system, communicated.	ISRASE- —riternational conference on computer science, electronics & electrical engineering"	2015	International
		Secured Sharing Of Personal Health Records In Cloud Computing Using Attribute Based Encryption (Abe).	ijarcsse	2015	International
8	Dr. C.S.PILLA I,	A Framework for Multicloud Environment Services,	Int. J. Advanced Networking and Applications	2014	International
		A Survey of Shape Descriptors for Digital Image Processing,	International Journal of Computer Science and Information Technology,	2013	International
		Cloud Computing Architecture and Development Trends"12 th April 2012.	Cluse-12, Bangalore.	2012	International
		Secure Network Coding Against Traffic Analysis"	RATE 2012,Bangalore	2012.	National





Communicating With A Millimeter Computer"		2012.	National
Dynamic Buffer sizing for 802.11 Based Network"	FCST'12,Bangalo	2012.	National
Internet Technology in Mobile Data system"	FCST'12,Bangalo re	2012.	National
Design Of Efficient Methodology For Query Processing	NLTPM-	2008	National

* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs-NO

Chapter in Books- yes

Books Edited - NO

Books with ISBN/ISSN numbers with details of publishers - YES

Citation Index – yes

Dr.T.Senhil Kumaran Scopus: 6

SNIP - yes

SJR - yes

Impact factor –0.817

h-index - 4

Electrical and Electronics Engineering

Sl no.	Name of the Faculty	Title of the Paper	Publication Citation	Date/Year of Publication	National or International Journal
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		On heuristic for optimal rural power distribution management"	Central Power Research Institute (CPRI),	2005 Pages: 1- 11.	International Journal
		2) —Fautl Diagnosis Engine Medium Voltage equipment system based expert system".	Inter JRI International Journal of research and industry, CS and N	July-2009, Pages: 204- 210	International Journal
1	Dr. Phani Raju .H.B	3) —Anexpert system based fault diagnosis engine for MV equipment system".	International conference ICEESPEEE- 2009, SRM University and IEEE Madras Section	April- 2009 Pages: 204- 210	International Conference
		4) —An intelligent fault diagnosis engine for gas turbine system".	International Conference ISSSIS-2009, CIT and Oklahoma State University USA	Jan-2009, pp-ES.6-12	International Conference
		5) —Analyis of 200 HP and above motors for quality	IEEE Bangalore, International	Oct-2009	International Conference

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		and reliable	conference		
		performance".	on ENC2SP		
			International	March-	
	6)	—Analyis of	Journal of	2013	
		A,B,C,D constants	Scientific &	Volume 4,	International
		in a transmission	Engineering	Issue 3	Journal
		line —	Research	ISSN 2229-	
				5518	
	7)	—Analyis of			
		Reliability of			
		distribution system			
		International joint	ARTEE 2013		
		conference on	[Elsvier]	Sep-2013	International
		Advances in recent	[Lisvici]	ЗСР-2013	Conference
		technologies in			
		communication			
		and computing"			
	8)	—Cmputational	International		
Dr. Phani		methods for	Journal of	June 2014	International
Raju .H.B		distribution system	Electrical and	Julie 2011	Journal
raju .11.D		for reliability	Electronics		Journal
		metrics"	Research		

* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs- NIL

Chapter in Books- NIL

Books Edited - NIL

Books with ISBN/ISSN numbers with details of publishers - NIL

Citation Index – NIL

SNIP - NIL

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SJR - NIL
Impact factor - NIL
h-index - NIL

Electronics and Communication Engineering

S. N o	Faculty Name	Title/Topi c	Name of the Journal International journal of	Internation al/National Journal with Imapet FACTOR International	Year of Publication Number 7/
1.		ssification	Applied Engineering	International	January
		based fast	Research(IJAER)		2010/page1243-
	Dr.A.Muru	fractal	,		1250 , Vol 5,
	ganandham	image			
		coder			
2.		Effective	International	International	Vol.2,No.2,
		MSE	JournalofComputerScience		May2010.Page
		optimizati	andInformationSecurity,	IMPACT	No238-
		on in	(IJCSIS)	FACTOR:	243.ISSN:1947-
		fractal		0.432	5500
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		on			
3.		Effective	WASET 2010	International	Ianuary
J.		Hashing		momanona	29-31, 2010,
		Parameter		(Scopus	Cape Town,
		s based		Index)	South Africa
		Fast			(ICECE, 10),
		Fractal			PP. 497-503.
		Image			

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	Cod	der"				
4.	Ad	aptive	Elsevier -	Procedia	International	Page Number
	Fra	ctal	Computer Science	;	(Scopus	338- 344
	Ima	age			Index)	/March- 2010
	Con	mpressi				
	on	using				
	PSG	C				
5.	Ap	plicatio	Lecture Note	es in	International	Vol 10 ; pg: 31-
	n	of	Information Techn	nology		37: Feb 2012
	PA	RSEC				
	Ge	ometry				
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	atio	on to				
	Ger	neral				
	Air	foilfor				
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6.	A	Fast	International Jon	urnal of	International	35(12):25-29,
	Fra	ctal-	Computer Applica	ations	T	December
	Cur	rve let			Impact	2011. Published
	Ima	age			Factor :	by Foundation
	Co	der".			0.821	of Computer
						Science, New
						York, USA.
						BibTeX
7.	Des	sign	Australian Journa	l of Basic	International	ISSN 1991-
	and	l	and	Applied	.	8178 JAN 2014.
	Imp	olemen	Sciences(AJBAS)		Impact	
	tati	on of			Factor :	

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ACS College of Engineering

	Fuzzy		0.658	
	Logic			
	based			
	Intelligent			
	Adaptive			
	Speed			
	Control			
	for DC			
	Motor"			
8.	A Novel	Journal of Theoretical and	International	(E-ISSN 1817-
	Model	Applied Information	(Scopus	3195 / ISSN 19
	Reference	Technology	Index)	92-8645). 10
	Intelligent			April 2014 -
	Adaptive			Vol. 62. No. 1 -
	Control			2014
	Using			
	Neural			
	Network			
	And			
	Fuzzy			
	Logic			
9.	Controller	IJAICT	International	Volume 1, Issue
	Design			2, June 2014
	And			Doi:01.0401/ija
	Implemen			ict.2014.02.11
	tation Of			Published
	Ec Based			Online 05 (06)
	Cryptosys			2014
	tem On			
	Fpga,			
10	-Design	International Journal of	International	(E-ISSN 2278-
	and	Engineering Research and		0181) Volume.
	Implemen	Technology		3, Issue. 05 ,





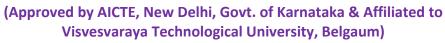
		tation of					Morr 20	11.1
		tation of					May - 20	114
		Stream						
		Cipher						
		Key						
		Exchange						
		in FPGA"						
11		Improved	International	Journal	of	International	2011,	Volume
		speech	Advanced	Science	and		1,	Issue-1,
		quality for	Engineering				pp 1	-5.
		VMR -						
		WB						
		speech						
		coding						
		using						
		efficient						
	Dr.M.Mathi	noise						
	vanan	estimation						
		algorithm"						
		, ,						
12		Efficient	Internation	al Journal	of	International	2012,Vol	ume
		Speech	Computer A	pplications	,	T	44,	No14,
		Enhance				Impact	pp 27	7-34
		ment				Factor:		
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age 143





		Modified Map Criterion using Hidden Markov Model",			
13		Analysis of Noise Characteri stics in VMR-WB Speech Using Sub Band Filters	Australian Journal of Basic and Applied Sciences	International Impact Factor: 0.329.	volume 7, Issue – 2, pp. 79- 88
14		-Multi Channel Voice Active Detection Using Instance Filed Auto- Interrelati on Function",	International Review on Computers and Software,	International Impact Factor: 0.486.	2013vol-8, No- 7, pp. 1680- 1687,
15	Bharathi Gururaj,	—rhage coding, Packetizat ion and	IJARSE	International	2015, , Vol. 4, Issue 1





		Channel			
		coding",			
16	Ramesha.	Analysis	IJECT	International	2014, —,Vol. 5,
	M	of			Issue 3.
		polyphase			
		filtering &			
		FFT in			
		FBMC			
		transceive			
		r",			

* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

☐ A text book —BasicElectronics" was written by Mrs. Bharathi. G and Mrs. Vanishree Moji along with Mr. M. V. Rao. Published by Subhas Stores.

Monographs- NIL

Chapter in Books- NIL

Books Edited - NIL

Books with ISBN/ISSN numbers with details of publishers - YES

Citation Index – Yes

SNIP - Nil

SJR – Nil

Impact factor –3.54

h-index - 4

Mechanical Engineering

Sl no	Name of the Teacher	Title of the Paper	Publication Citation	Date/Year of Publicatio n	National or Internation al Journal
1	Siddesh.H.S	—Studyof Cyclic Constrained Groove Pressing	International organization of scientific research	July-2013 Vol:3,Issu e-7	Internationa 1 Journal

age 145

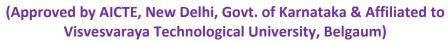




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Factors on	journal (IOSRJ),	Pages: 27-	
Hardness	[E-ISSN:2250-	35.	
Behavior of	3021]		
Al/Sic - MMC			
Subjected to			
Severe Plastic			
Deformation"			
—Charaterizatio			
n of Mechanical			
Properties of		Fohruory	
Aluminum	Journal of	February-	
Processed by	Materials	2013, Volume:65	Internationa
Repetitive	[DOI:		
Corrugation and	10.1007/s11837-	, Issue-2.	1 Journal
Straightening	012-0503-1]	Pages:	
Process using		294-298	
Taguchi			
Analysis".			
—nvestigation of			
microstructure	International	September	
and mechanical	Journal of	- October	
properties of	Engineering	2012	T4 4:
commercially	Research and	Vol:2,	Internationa
pure aluminum	Applications	Issue-5.	1 Journal
produced by	(IJERA), [ISSN:	Pages:	
RCS process".	2248-9622]	333-341	
—Taguchi	International		
analysis of	Journal of	Ionicama	
repetitive	Advanced	January- March,201 2. Vol:3	Internationa
corrugation and	Engineering		l Journal
straightening	Technology(IJAE		
factors on grain	Т),		



size, tensile and	[E-ISSN 0976-		
hardness	3945]		
behavior of al	-		
subjected to			
severe plastic			
deformation".			
—Case			
Hardening	International		
Effect on	Journal of		
Mechanical	Applied Research	Jan:2011	Internationa
properties in	in Mechanical	Vol:1	l Journal
Graphite	Engineering		
Reinforced	(IJARME)		
Al6061 MMCs".			
mtermal of stability of ultrafine grained Al6061 alloy processed through cyclic constrained groove pressing"	Advanced Engineering and Applied Sciences: An International Journal: Universal research publications.	Jan:2014: 4(1) Pages:1-6	Internationa 1 Journal
—Optinization of Cyclic Constrained Groove Pressing parameters for Tensile Properties of AL6061 / SiC Metal Matrix composites"	Procedia Materials Science [Elsvier]	March - 2014	Internationa l Journal





2	Ramesh.C	—Anoverview of magnetism of spinel nanoferrite particles and A study of chromium substituted Zn-Mn ferrites nanostructures via sol-gel method"	Nano Science Engineering and Technology. Print ISBN: 978- 1-4673-0071-1 [Published in IEEE Explorer]	Nov-2011 Pages: 119-124	Print ISBN: 978-1- 4673-0071- 1 [Published in IEEE Explorer]
		—Thioperforman ce of Silicon Dioxide Filled Glass Fabric Reinforced Epoxy Composites"	ARPN Journal of Engineering and Applied Sciences,	2012, Vol. 7, No. 4, Pages. 485-491.	Internationa 1 Journal
3	B.R.Raju	-Experimental Study on Drilling of Particulate Filled Glass- Epoxy Composites Manufactured by Hand Lay-Up Technique."	International Journal of Materials Science,	2012, Vol. 7, No. 2, Pages. 93- 104.	Internationa 1 Journal
		Silicon-Dioxide Filler on the Wear Resistance	Journal of Advances in Polymer Science	2, No. 4, Pages. 51-	Internationa l Journal





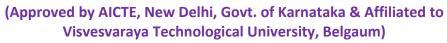
of Glass Fabric	and Technology,		
Reinforced			
Epoxy			
Composites"			
—Assesment of			
Cutting			
Parameters			
Influencing on	Journal of		
Thrust Force and	Minerals and	2013, Vol.	
Torque during	Materials	1, No. 3,	Internationa
Drilling	Characterization	Pages.	l Journal
Particulate	and Engineering,	101-109.	
Filled Glass			
Epoxy			
Composites"			
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on Mechanical	Journal of		
and Tribological	Minerals and	2013, Vol.	
Behaviour of	Materials	1, No. 4,	Internationa
Particulate	Characterization	Pages.160-	l Journal
Filled Glass	and Engineering,	167	
Fabric Epoxy			
Composites"			
—Thre-Body			
Abrasive Wear			
Behaviour of	International		
Silicon Carbide	International of	2013,	
Filled Glass-		Vol:3	Internationa
Fabric	Advances in Polymer Science	Pages:36-	l Journal
Reinforced	-	41	
Epoxy	and Technology,		
Composites			
Using Taguchi			





		Method" —Tensie Properties Of Natural Fiber- Reinforced Epoxy-Hybrid Composites"	International Journal of Modern Engineering Research [ISSN: 2249-6645]	Mar-Apr 2012, Vol.2, Issue.2, Pages-471- 474	Internationa 1 Journal
4	Girisha.C	—Effet Of Alkali Treatment, Fiber Loading And Hybridization On Tensile Properties Of Sisal Fiber, Banana Empty Fruit Bunch Fiber And Bamboo Fiber Reinforced Thermoset Composites"	International Journal Of Engineering Science & Advanced Technology [ISSN: 2250– 3676.]	Volume-2, Issue-3, May-June : 2012, Pages:706 - 711	Internationa 1 Journal
		—SistaCoconut Coir Natural Fibers – Epoxy Composites: Water Absorption And Mechanical Properties"	International Journal of Engineering and Innovative Technology [ISSN: 2277- 3754] ISO 9001:2008	Volume 2, Issue 3, September 2012 Pages:166- 170	Internationa 1 Journal

,age 150





			Certified		
		—Mchanical Performance Of Natural Fiber- Reinforced Epoxy-Hybrid Composites"	International Journal of Engineering Research and Applications [ISSN: 2248- 9622]	Vol. 2, Issue 5, September - October 2012, Pages.615- 619	Internationa 1 Journal
		Performance Analysis on Array of Circular Fins through Forced Convection	International Journal of Engineering Research and Technology. [ISSN 0974- 3154]	Number 2014, Volume 7, Pages: 1-8	Internationa l Journal
5	R.SivaSubramaniy	Performance Analysis and Heat Transfer Studies on Protruding Surfaces of Electronic Components	International Journal of Engineering Research and Technology. [ISSN 0974-3154]	2014,	Internationa l Journal
		" Performance analysis and heat transfer studies on protruding surfaces of electronic	International Journal of Engineering Studies [Accepted for Publication]		Internationa l Journal

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m age}151$

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		components "			
6	Kumar.B.M	—Desgin and Analysis of a Hydrostatic thrust pad using CFD approach"	International Journal on Mechanical and Automobile Engineering, Summer Edition [ISSN: 0974-231]	March- 2009 Vol: 3, No. 4	Internationa 1 Journal
		—Desgin and Analysis of an Automobile brake drum by using ANSYS"	Mechanical and Automobile	March- 2009 Vol: 3, No. 4	Internationa 1 Journal
7	Sunil Raj B.A.	Rejection Analysis of Rail Axel using Juran's Quality improvement project by project approach in RWF: Case Study.	Journal of Engineering Today. [ISSN:0974- 8377]	Nov-2013 Issue:11	National Journal
		Quality Improvement of Axels by using control Charts: A Case Study.	Journal of Engineering Today. [ISSN:0974- 8377]	Nov-2013 Issue:11	National Journal
8	Dr.M.Eswaramoor thy	—Modling and analysis of solar parabolic dish		2014	Internationa 1 Journal

age 152





thermoelectric generator"	Utilization and Environmental Effects (Accepted) 34(14), pp: 1531- 1539. (Impact factor:1.09) *		
_Experimental study on solar parabolic dish thermoelectric generator	International Journal of Energy Engineering Volume 3, No. 3, pp.62-69.	2013	Internationa l Journal
_Experimental evaluation of energy and exergy efficiency of solar parabolic dish thermoelectric power generator' (Impact factor:1.09) *		2014	Internationa l Journal
-Experimental investigation of solar still coupled with evacuated tube collector"	Energy Sources Part A : Recovery, Utilization and Environmental Effects Volume	2013	Internationa 1 Journal





		Performance Evaluation on Solar Still Integrated with Nano-Composite Phase Change Materials, Exergy Analysis of Solar Still Integrated Nano Composite Phase Change Materials.	35, Issue 15, pp. 1441-1455 (Impact factor:1.09) * Applied Solar Energy (in Press) Applied Solar Energy (Accepted for Publication)	2015	Internationa 1 Journal Internationa 1 Journal
9	Vijaya Kumar.S.Totad	Numerical Simulation of Two – Dimensional Incompressible Viscous flow over aerofoil blade	International Journal on Mechanical Enginering and Robotics(IJMER), V-2, Issue-6, Pp: 75-77	2015	Internationa 1 Conference / Journal
10	Chandrashekhar B	Analysis of creep life Prediction for gas Turbine disc	International Journal of Research in Advent Technology Volume.2, Issue.06. [E- ISSN:2321-9637]	2014	Internationa 1 Journal

 $_{\rm age}154$

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11	Chandrakala k	Design and development of Special purpose joy stick for Two wheelers	International Journal of Engineering Research & Technology in IJERT, Volume.3, Issue 05	2014	Internationa 1 Journal
			Issue.05		

* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs-NO

Chapter in Books- No

Books Edited - NO

Books with ISBN/ISSN numbers with details of publishers - YES

Citation Index – Yes

Dr.Eswaramoorthy: Scopus: 13

Dr.Raju.B.R: Scopus: 13

SNIP -

SJR -

Impact factor –2.0

h-index-

Department of Mathematics

	Academic Year 2014-15							
S.	Name	Design	Dept.	Paper Title	JOURNA			
N		ation			LS			
o								
1	Dr.Veena BH	Prof &	Mathematics	Effect of permeability of	Internation			
		HOD		the cartilage on the	al journal			
				unsteady convective	of			
				diffusion in the synovial	Engg.techn			
				fluid of	logy			
				human joints	,managem			
					ent and			
					applied			

					science
2	Dr.Pradeep	Asst.Pr	Mathematics	On Quarter-Symmetric	Azerbaijan
	Kumar KT	of		Metric Connection in a	Journal of
				Lorentzian Para-Sasakian	Mathemati
				Manifold	cs
				On Weakly Concircular	Internation
				Symmetric K-Contact	al Journal
				Manifolds Admitting	of Applied
				Quarter-Symmetric Metric	Computati
				Connection	onal
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	Kumar KT		cs	Admitting Quarter-	(International
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					Corporation,)
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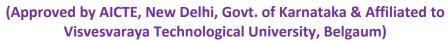
ACS College of Engineering

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				Enhancement in	Journal of
				Multimode Step-Index	optics",
				Fiber Using Refractive and	doi:10.1155/2
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1				Zinc Additive and pH	
				Influence of Zinc Additive	
				and pH on Electrochemical	Asian Journal
				behavior of β-Nickel	of Chemistry
				Hydroxide in Nickel	
				Based Secondary Batteries.	
				Electroless Deposition of	National
				Cobalt on Graphite	conference on
				Substrated for Fuel cell	Pure and
				Applications	Applied
					chemistry(NA
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				copper(II)-based	
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				photosensitizers:	
				Evaluation of their DNA	



			binding profile, cleavage and photocytotoxicity Synthesis, Characterization and Antibacterial activity of new scaffold of Schiff base derivatives Synthesis of the intermediate 2-(bromoacetyl)-3 <i>H</i> -benzo [<i>F</i>] chromen-3-one	Journal
			Metal based photosensitizers of tetradentate Schiff base: Promising role in antitumor activity through singlet oxygen generation mechanism	Spectrochimic a Acta Part A: molecular and biomolecular spectroscopy
			Cobalt(II), Nickel(II) and Copper(II) complexes of a tetradentate Schiff base as photosensitizers: Quantum yield of ¹ O ₂ generation and its promising role in antitumor activity	
Mr.Venkatesh .T	Asst.Professor	Chemis try	ÆffectOfTwinScrewExtrusionOnThePropertiesNanoclay	National Conference

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		Inhibition Effects of a DMPO Derivative on the Corrosion of Zinc- Aluminium alloy in 0.1NHydrochloric Acid Solution by OCP Method at different Temperatures	National Conference
		at different Temperatures	

Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs- NO

Chapter in Books- No

Books Edited - NO

Books with ISBN/ISSN numbers with details of publishers - YES

Citation Index – Yes

Dr. Veena B H: Scopus:07

Dr. Pradeep Kum, ar K T: Scopus: 12

SNIP -

SJR -

Impact factor -

h-index -1

Dr.Selvanandan

Dr.Bhavayashri

SNIP -

SJR -

Impact factor -

h-index -1

Mr.Shivakumar M.S

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Dr.Pradeepa S.M SNIP -SJR -Impact factor h-index -1

3.4.4 Provide details (if any) ofResearch awards received by the faculty Aeronautical Engineering

Dr. R. Mukesh.

Session Chair, Presentech 2015 at ACSCE.

Reviewer of Following Journals:

- 1. Measurement Journal Elsevier
- 2. Advances in Mechanical Engineering Sage Publications

Jensin Joshua

Session Chair, IEI National Level Aerospace Convention, 2015. Chennai.

Biomedical Engineering

Dr.Punal.M.Arabi

- ☐ International
- Conference Chair International conference on Computing, Communication and Electrical Technology -ICCCET 2014
- Session chair- International conference-ICRET'13, Park engineering college, Coimbatore
- Session chair- IEEE International conference ICCCNT2013, Vivekananda College of Engineering for Women, Tiruchengode.
- Organizing committee member IEEE International Conference ICCCNT2014, China.

□ National

- Resource person FDP on Wireless networks, 2014 Vivekananda Engineering College for Women, Tiruchengode.
- Resource person- Special lecture on Electronic circuits-I, 2014 -Sengunther college of engineering, Erode.
- Resource person-FDP on Electronic circuits-II, 2014-KSR college, Thiruchengode.
- Syllabus Committee Member-Anna University, Chennai

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- Result Board Member Madras University and SNS College of Engineering.
- Principal Investigator of a DST funded project.
- Panel Member in the Panel Discussion on —Dimensions of Twenty First Century women" Vivekananda Engineering College for Women, Tiruchengode
- Editorial Review Board Member /Reviewer of Following Journals
- Biomedical Engineering Research (BER) THE WORLD ACADEMIC
 PUBLISHING CO., LIMITED Hong Kong-ISSN:2306-6008(Print)-ISSN:2306-5990(Online)-Frequency: Quarterly
- International Journal of Engineering Research
- Journal of Experimental Nanoscience Taylor and Fransis group ISSN: 2319—6891
- Scientific and Technical Committee & Editorial Review Board Member of World Academy of Science, Engineering and Technology journals.
- Editorial Board Member-London Journals Press (UK/USA).
- * Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally
- * Incentives given to faculty for receiving state, national and international recognitions for research contributions.

Department of Mechanical Engineering

Dr.M.Eswaramoorthy

He is currently serving as a Governing Council Member of SOLAR ENERGY SOCIETY OF INDIA. (2015-2016)

Department of Mathematics

1. Dr. Veena B H

International

Session chair- iccsem 2013, DSCE, Bangalore.

Organizing committee member – iccsem 2013 Session Head of Basic Science, DSCE, Bangalore.

Syllabus Committee Member-DSCE, Bangalore.

2. Dr.PRADEEP KUMAR KT

REVIEWER IN MALAYA JOURNAL OF MATHEMATICS

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3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

- College is having a committee for Industry-Institute interface which is having a member from each department.
- Committee will find the thrust area to carry out collaborative research/project with various industries.
- All the departments are having MOU with industry for academic, internship, research collaboration.
- Guest lectures and workshops are being conducted by industry experts on regular basis for students on different management topics related to the curriculum and other contemporary topics.
- Industrial visits happen every semester for students.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The institute promote consultancy in functional areas of management, quality aspects in educational sector and public utility services with its in-house expertise and own network of experts in the concerned field. The institute even promotes non-fee based consultancy services for educational institutions, NGOs and Public Service Organizations. Faculty members can take-up consultancy services in their area of expertise and we have an internal committee to promote and co-ordinate the research and consultancy activities.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

- College is having a committee for Industry-Institute interface which is having a member from each department.
- By providing facilities and infrastructure.
- Encourage faculty to interact with industries and R&D organizations.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

All the departments do perform consultancy services. The process of sharing generated consultancy and sharing among faculty and institute are under process.

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3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

All the departments do perform consultancy services. The process of sharing generated consultancy and sharing among faculty and institute are under process.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighbourhood- community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

College has constituted a committee for social activities. One each from all the departments participating in the committee. College also started NSS. These committees and units are working together for activites pertaining to Health, Environment and Social responsibilities.

Few such activites are:

- The Rajarajeswari Group of institutions have adapted Ittamaduvillage, RAM Nagar District.
- Swach Bharath Abhiyan
- Blood donation camp
- Health awareness program
- Plantation
- Intercollege competition such as Kabbadi, basket ball and cricket tournaments.
- JAYA NISHCHAYA program for encouraging school students about various career opportunities.
- Mrs.Mareeswari of CSE department has participated TCS 10K marathon on May 17th 2015
- Mrs Nanditha Krishna, Mrs Surekha Nigudgi, Mrs Vamsha Deepa.N, Ms Prathibha.T.P and Mrs Gayathri Joshi participated 5Km Pinkathon (Marathon) organized by SBI, for Breast cancer awareness held on 31st Jan 2016 @ Whitefield, Bangalore Guest lecture regarding National Integration Citizenship Role and Constitution of India initiated. College has environmental cell that also works together with RRGI.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

College has constituted a committee for social activities.

VI.

ACS College of Engineering

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College has adapted the nearby village and through NSS and Red Cross Society conducting various programs. These committees and units are working together for activities pertaining to Health, Environment and Social responsibilities.

College has hosted university intercollege sports.

College has a vibrant team that has participated in various college and university level activities like dramatics, music and cultural activities.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The varied stake holders are members of different committeesacross institute such as Governing Council, Internal Quality Assessment Cell (IQAC) and Alumni Association. Alumni are members of IQAC. Students Alumni parents and Industrial community participated in IQAC meetings. The feedback received from alumni, parent-teacher meet and other stake holders on different programs undertaken by the institution provide adequate material for the assessment of the quality of the performance of the institution.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

College has constituted several committees like NSS and Red Cross Association conducting various programs. These committees and units are working together for activities pertaining to Health, Environment and Social responsibilities.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies?

All students are YRC members. They participate in Swach Bharath Abhiyan, blood donation camp and various activities. Appreciation certificate is issued for involvement in various programs.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

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NSS and Red Cross Association of the college are conducting various programs. These committees and units are working together for activities pertaining to Health, Environment and Social responsibilities. Some of the programs are

Health awareness program conducted at Gollahalli Village

Swach Bharath Abhiyan in and around ACS College, RRMCH campus.

Plantation of saplings in around the campus and area.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

Most of the extension activities are trying to build students leadership skills, communication skills, emotional intelligence and developing organizing skills in addition to make them responsible citizen with concern for society, environment and country at large. Hence student participation in these extension programmes will help them to inculcate better approach in meeting placement and career requirement.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

YES: Swatch bharath campaign, blooddonation, planting trees, bio Degradable plastic usage, YRCprograms etc. adapted village.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

YES: RRMCH & RRDCH, Govt.School in adapted village

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

As of now, No such award has been received in our college.

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3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

YES: Chemistry Research centre collaboration with RRCE

CSE and EC Dpt. Have MOU with Industry. Other depts. Are in process.

MOU with industry and Institutions to carryout research

- Computer science and engineering department MOU with CMS-IT Services (Pvt. Ltd.), Bangalore
- Mechanical Engineering department MOU with MGIREDBangalore
- Bio Medical Department MOU with RRMCH, Bangalore
- Aeronautical Engineering department MOU with following Companies

TAAL, Hosur

E2K Tech, Hosur

Unique Lab Equipment's, Chennai

Unmanned Engineeria, Chennai

Vayu Aerospace, Hosur

Jetwings, Hosur

Global Aviation Services, Malaysia

- Civil Engineering department MOU with FE Designs, Bangalore.
- Electronics and Communication Engineering Department MOU with World Alumni Network Private Limited & TCS Bangalore.
- Electrical and Electronics Department MOU with VenJay Automation Private Limited.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

YES: Chemistry Research centre collaboration with RRCE

CSE and EC Dpt. Have MOU with Industry. Other depts. Are in process.

MOU with industry and Institutions to carryout research

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ACS College of Engineering

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- Computer science and engineering department MOU with CMS-IT Services (Pvt.
- Ltd.), Bangalore
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Global Aviation Services, Malaysia

- Civil Engineering department MOU with FE Designs, Bangalore.
- Electronics and Communication Engineering Department MOU with World Alumni Network Private Limited & TCS Bangalore.
- Electrical and Electronics Department MOU with VenJay Automation Private Limited.
- 3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

No such support is received from any of the organization. The industry-institution-community interactions helped us in getting resource persons for various programmes at our institution. It also helped us in establishing network for placement activities.

- 3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.
- ONE DAY NATIONAL level Seminar ON Space Mechanics, Satellites and Launch Vehicles was held on 3rd September 2015, the following eminent scientists contributed to the events.
- i) Prof. P. Soma, Retd. Scientist ISRO

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- ii) T.K. Sundaramurthy, Retd. Scientist ISRO
- ONE DAY NATIONAL WORKSHOP ON CFD-2K12 was held on 28th September 2012, the following eminent scientists contributed to the events
- i) Dr.K.N.Seetharamu, Retd. Prof., IIT-Madras
- ii) Dr. Gaurav Tomar, Prof., IISc, Bangalore.
- iii) Dr.Ramanamurthy, Scientist E5. GTRE, Bangalore

ON ENGINEERS DAY- Dr. Viresh K. Basalalli chief guest, Former Register VTU to inaugurate Research Forum

ONE DAY INTERNATIONAL WORKSHOP ON PREPARATION OF RESEARCH ARTICLES AND FUNDING RESEARCH PROPOSALS by the eminent, Dr.Subramanium Arunachalam.,PhD , University of East London, school of Architecture,Computing and engineering , Dockland Campus, 4-6 University way, London E16, 2 RD, UK.

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated –

Yes:

a) Curriculum development/enrichment

The institute is an affiliated institution with no scope of change in curriculum as to be followed is prescribed by VTU.

b) Internship/On-the-job training

The institute makes the facilities for arranging in-plant training /industrial visit at various industries for the students.

c) Summer placement

During the semester vacation the students are encouraged to visit various companies to develop their technical skills.

d) Faculty exchange and professional development

Faculty members of the college attend professional development programs/orientation course.

e) Research

The institute regularly organizes workshops/seminars/conferences to promote research activities.

f) Consultancy

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Faculties are engaging consulting activities with industries.

g) Extension

The college organizes society-friendly programmes as part of its extension activities. Students are encouraged to involve in community development programs.

h) Publication

The faculty and students are publishing their research work in national /international journals, also publishing papers with the help of industries.

i) Student Placement

Industrial contacts and rapport have helped in placing good number of students in viable employment

j) Twinning programmes

The institute doesn't have any programs

k) Introduction of new courses

To fill the gap between industries and academic institutions, suggestions from industries were obtained and content beyond syllabus are included in the teaching methodology

1) Student exchange

The institute has been running UG and PG courses. Hence the research activities at the student's level are undertaken by publishing the papers in National and International Journals and participating in conferences, seminars and symposiums.

m) Any other

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

As per MOU terms and conditions the college is carrying out the work.

A continuous touch with several organizations in different sectors to implement certain plans to bring in academic excellence in students and faculty, basing on which several activities have been taken up to strengthen the skill sets to have better professional approach.

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Criterion - IV: Infrastructure and Learning Resources

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Criterion - IV: Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

- Physical facilities have been expanded to create an ambience conducive for academic excellence and holistic development.
- Various departments and administrative sections are housed in One Block. Each Floor has two departments. The college has spacious class rooms, laboratories, conference halls, and sports facilities.
- Classrooms with adequate ventilation. Well-equipped computer laboratory with need-based software's.
- Each floor has two departments along with classrooms & respective laboratories. The College has spacious conference halls & sports facilities. Various departments & administrative sections are housed in ground floor.
- Faculty recrecreation facility is available.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

i. Curricular activities.

- College Buildings are constructed in the form of different blocks covering an area of 24,343 sqm.
- Spacious class rooms with good seating infrastructures which are well illuminated and well ventilated.
- Final year class rooms LCD projectors and screen being fixed. Teachers can make power point or multimedia presentations in these class rooms as plug and play.
- Laboratories are well equipped and spacious with appropriate seating arrangement. Average area of each laboratory is about 89 sq.mtrs.
- Department is provided with an exclusive staff room, internet connectivity and wifi connectivity. Staff room has separate Cabins for each faculty & separate chamber for HOD.





Floor	Room	Area (Sq.mt)
1 st	Office	135.32
	Principal office	45
	Exam Cell	35
	Placement Cell	135.32
	Library	550
	Reception	180
	Computer Center	23
1	Store room	23
	Board Room	170
	Maintenance	11
	Pantry	11
	Security	11
	Boys rest room	45
	Girls rest room	45
2 nd	CS Staff room	125
	ECE Staff room	125
	CS research lab	70
	CSE department laboratories	450
	CSE & EC Classrooms	101-7
	CS and ECE HOD room each	25
	Seminar hall	170
	ECE department laboratories	725
	ECE Lab Store room	25
	Mathematics department	23
3 rd	Seminar hall 3	170
	Mechanical staff Room	125
	Civil staff Room	125
	Each class room (7)	101
	Drawing Hall	180
	Civil department laboratories	856
	Mechanical department laboratories	1,238

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	Mechanical R&D	45
4 th	Seminar Hall	170
	BME staff room	125
	EEE staff Room	125
	Each class room (7)	101
	Bio Medical laboratories	450
	Electrical & Electronics laboratories	675
5th	AE staff Room	125
	Class room total 6	101
	AE laboratories	270
	Board Room	170
	AE HOD room	23

b) Extra -curricular activities - sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

ii. Co-curricular activities

- Co-curricular activities are generally conducted after the class hours either in the class rooms or in the auditorium.
- The college holds cultural competition during Even semester every year named AAROHANA.

Events in AAROHANA include:

- Group and Solo Dance
- Group and Solo Singing
- Skits
- Mad-ads
- Essay-writing
- Debate
- Collage
- Rangoli.

iii. Extra -curricular activities and sports

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- An auditorium with multimedia facility and good seating arrangement. Auditorium has seating capacity of 1200 members.
- The college has a basket ball court which conforms to the national standards
- in the open field.
- The college has volley ball and throw ball courts in the open field.
- Cricket is practiced in the college field everyday and more rigorously on holidays and Sundays. Cricket batting pitch with net for practice is created in the field.
- Multi-Gym facility is provided for boy students and male staff of the college as a common facility.
- Swimming Pool is available in the campus.
- Football is also practiced by the students in the evening in the ground.
- The college has also facility for indoor games such as chess, carom, table-tennis, shuttle cock, etc.

iv. Public speaking and Communication Skills development

- Public speaking and Communication Skills development program is carried out by Placement cell.
- The students are encouraged to give technical seminars of their choice.
- The college also organizes Intra-college seminars, technical quiz etc.

v. Yoga

- Yoga classes are conducted on International yoga day. Even practiced later
- 4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).
- To keep pace with growing demands of higher education, the college has significantly enhanced the infrastructure.
- Optimum utilization of the infrastructure is ensured. LCD projectors are frequently used in the class rooms by the faculties. The academic session is so framed that our classrooms and laboratories are occupied from morning till evening.

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• Our students spend time in the laboratories till late evening. Regular campus activities ensure that our auditorium and seminar halls are utilized around the year. The college regularly conducts guest lecturers in seminar halls and class rooms.

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

- Preferential service is provided to differently-abled students in the library and the canteen.
- The class rooms for physically challenged students are allotted on the ground floor. The functional mobility of such students is helped by the peers and the staff of the college.
- Western type washes rooms on all the floors.
- Examinations are conducted in ground floor for physical disability students.
- Lift facilities are provided for physical disability students.

4.1.5 Give details on the residential facility and various provisions available within them:

Hostel Facility - Accommodation available

- The college has separate hostel for boys and girls in the campus as a common facility for all RR group of institutions. The hostel is dormitory type provided with separate reading compartments and a warden on site 24×7. Separate NRI hostel is available within the campus. Each hostel room has separate bed and a rack for each student.
- Hostel has the total capacity of 510 students; All the rooms are attached with toilet facilities.

CAY-2015-16

Heatel	No of Dooms	Campaitre	No of Students
Hostel	No. of Rooms	Capacity	accommodated
Hostel for Boys 108		303	142
Hostel for Girls	75	150	62

CAYM1 2014-15

Hostel	No. of Rooms	Capacity	No	of	Students
	No. of Rooms	Capacity	accom	ımodat	ed
Hostel for Boys	108	303	140		

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Hostel for Girls	75	150	58

CAYM2 2013-14

Hagtal	No of Dooms	Canacity	No of Students
Hostel	No. of Rooms	Capacity	accommodated
Hostel for Boys	108	303	120
Hostel for Girls	75	150	65

Facilities:

- 1. 3 BEDS PER ROOM
- 2. TV ROOM
- 3. WIFI
- 4. RECREATION ROOM
- a) CHESS
- b) CARROM
- 5. Multiplayer field
- 6. Mess Facility

Recreational facilities, gymnasium, yoga center, etc.

- The hostel inmates have various recreational facilities like television, screening of movies during weekends, etc.
- The existing indoor and outdoor sports facilities are utilized by the inmates during the morning and evening hours. The hostel inmates have been found playing shuttle badminton, ball badminton, volley ball, throw ball, etc.
- Gymnasium is also made available to the students to maintain their health.

Computer facility including access to internet in hostel

• Wi-Fi facility is provided for the students to work on their laptops in hostels.

Facilities for medical emergencies

- As the hostel is in the same campus as RRMCH in case of emergency they can visit RRMCH at 24X7.
- Ambulance facility & Well maintained pharmacy is available at 24*7.

Library facility in the hostels

• Daily News papers such as Prajavani, Times of India , Vijaya Karnataka , etc are provided

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Internet and Wi-Fi facility

Yes, Wifi facility is available with 35 Mbps speed.

Recreational facility-common room with audio-visual equipments

Yes

Available residential facility for the staff and occupancy

- Staff are also provided residential facility in the same hostel.
- Even separate staff Quarters are also there.
- Good Car parking and security facilities are also available.

Constant supply of safe drinking water

• Water purifier is installed in the premises.

Security

- The hostel and the college campus have security 24×7 .
- And even CCTV cameras are installed.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

- As ACS college is the same group as the RRMCH, the students and staff can reach the RRMCH within 5 minutes for health care, as well in case of emergency. It is available for 24x7.
- Ambulance facility & Well maintained pharmacy is available at 24*7.

4.1.7 Give details of the Common Facilities available on the campus spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

Si.No	Facility	Features
1	IQAC	A board room equipped with LCD projector is provided
		for IQAC meetings. Interactive Intelligence boards are
		available.
2	Grieveance Redressal	Yes





	Unit	
3	Women's Cell	Yes
4	Counseling and	This unit is located in the ground floor
	Career Guidance	
5	Placement Unit	This unit is located in the ground floor
6	Health Centre	RRMCH is located in the RRGI campus
7	Canteen	The College has a canteen with area of 303 sqmt. with
		average daily users of 300 to 400 people functioning from
		morning till evening providing hygienic food and
		beverages.
8	Recreational spaces	Yes
	for staff and students	
9	safe drinking water	Purifier is installed so to have a pure drinking water
	facility	
10	auditorium	ACS auditorium lies in the campus itself
11	Vehicle Parking	Spacious space for parking car and two wheelers in the
		parking lot
12	Bank and ATM	Kotak Mahindra Bank is located in the RRGI campus;
		AXIS bank ATM is also available.

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4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Central Library Committee:

S.No	Name
1	Dr. Mathivanan -Chairperson
2	Ravikumar - member coordinator
3	One Faculty and two students from each department are members.

4.2.2 Provide details of the following:

• Total area of the library (in Sq. Mts.) : 365 Sq Mts.

• Total seating capacity: 120 Students

- Working hours (on working days, on holidays, before examination days, during examination days, during vacation): 8:30 a.m to 4:00 p.m
- Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)
- The library has 3 (Lending, Reading and Reference) different sections
- 4 long reading carrels are provided for reading.
- 10 systems are provided for browsing and accessing e-resources
- The Library is fully computerized using the New Gen Lib. Software's and all the books Journals and Identity RFID Tag coded. The Library adopted RFID Technology.

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4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Libray holdings	Year -1	Year -1 2011		Year – 2 2012		Year -3 2013		Year -4 2014	
	Number	Total	Number	Total	Number	Total	Number	Total	
		Cost in		Cost in		Cost in		Cost in	
Text books	1855	3,53,004	1169	3,62,387	845	630971	1331	130394	
Reference Books	-								
Journals/Periodicals	International	1,85,653	International	1,65,174	International	1,90,047	International	181666	
	-24		-24		-17		- 17		
	National -		National -47		National -45		Nationall -		
	48						45		
e-resources	AICTE	12,15,972	AICTE	13,18,066	AICTE	10,000	Member of	1281022	
	Consortium		Mandatory		Mandatory		VTU		
			subscription		subscription		Consortium		
Any other									
(specify)									

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- * OPAC: Yes, The users can search author wise, title wise and reserve in advance the required books from the library through OPAC. Web OPAC provides e-resources access throughout the campus.
- * Electronic Resource Management package for e-journals VTU-Consortium package (IEEE, springer, cloud based remote access, K-nimbus, J Gate)
- * Federated searching tools to search articles in multiple databases
- * Library Website: The Library's presence on our College website (www.acsce.edu.in) is

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sufficiently covered as one of the main menus.

- * In-house/remote access to e-publications: Cloud based remote access.
- * Library automation :RFID Tag coded
- * Total number of computers for public access :10
- * Total numbers of printers for public access :NIL
- * Internet band width/ speed 2mbps 10 mbps 1 (GB) :35Mbps
- * Institutional Repository :YES(in the office)
- * Content management system for e-learning VTU-Consortium package (IEEE, springer, cloud based remote access, K-nimbus, J Gate)
- * Participation in Resource sharing networks/consortia (like Inflibnet): VTU-Consortium package (IEEE, springer, cloud based remote access, K-nimbus, J Gate)

4.2.5 Provide details on the following items:

- * Average number of walk-ins :60
- * Average number of books issued/returned :100
- * Ratio of library books to students enrolled:10:1
- * Average number of books added during last three years :3345
- * Average number of login to opac (OPAC) :10
- * Average number of login to e-resources:15/day
- * Average number of e-resources downloaded/printed:15/day
- * Number of information literacy trainings organized:1
- * Details of —weedig out" of books and other materials: 1,000 books weeded out.

4.2.6 Give details of the specialized services provided by the library

- * Manuscripts: A few manuscripts are available in the central library, the collections are available in central library for students and faculty use.
- * Reference -

A separate reference sections is available in the central library. The reference books, journals

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back volumes, hand books, dictionaries, competitive exam guides and pervious year question papers and theses are available in the reference section.

* Reprography –

Photocopying machine is available within the campus. Scanning machine is also available, the important materials from library will be scanned and it will be distributed to the users based on their requests.

- * ILL (Inter Library Loan Service) Inter library loan service are available to the users who request for a book which is not available in the library, The books are provided to them through DELNET and it is given to users for 15 days.
- * Information deployment and notification (Information Deployment and Notification) The information on each subject are notified to all the departments through email by scanning the content page of selected journals.
- * **Download** -The digital library provides the down loading facilities. Students can download information from e-journal and e-books.
- * **Printing** The central library has a printer for taking print outs required by faculty and students.
- * Reading list/ Bibliography compilation The new arrival list is sent to all departments through emails and also the same facility is available in OPAC. The compilation of bibliography has been done in the library on any topic requested by the users .
- * In-house/remote access to e-resources cloud based remote access
- * User Orientation and awareness The user orientation was given to students in the beginning of the semester.
- * Assistance in searching Databases Personal assistance is given to staff and students in searching the databases.
- * INFLIBNET/IUC: The central library is the member of INFLIBNET.

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

- Support for e-journal access.
- Support in location of title.
- Additional book provided on request.

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- Support in locating question papers.
- Assist in handling library utilities.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

As the Library is located in the ground floor it will be helpful for such students. The section in charge helps such students every possible way. The specially-abled students are given top priority for issuing the books. These students are helped by the staff who provides them books or study material.

- 4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)
- Periodic feedback is obtained through the following process:
- During library committee meetings/ department/ college level.
- It is processed by the library staffs. The feedbacks help the library to grow healthier.

4.3 IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution.

Number of computers with Configuration (provide actual number with exact configuration of each available system):

S.No	System configuration	Quantity
1	Zeneith (Intel Dual Core, 1 GB Ram, 160 GB HDD,	136
	DVD writer,18.5 LCD Monitor	
2	Acer-Intel Corei3 2 GB Ram, 320 HDD, DVD	231
	writer, 18.5 LED Monitor	
3	Lenovo(Intel core i3, 4GB Ram, 500 GB HDD,	107
	18.5 LED Monitor	
	Total	474

- Computer-student ratio (126:240) (1:2)
- Standalone facility: Nearly 25 computers are standalone facility computers

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• LAN facility: Speed of 100Mbps available.

• Wi-Fi facility :Available

Licensed software :

The college has a corporate license software with the Micro – soft . All the software loaded has been licensed with different agencies.

Name of the software	Lice sensed by
Microsoft windows	Microsoft corporation
Microsoft office 2007	Microsoft corporation
Applications –MASM	Software vendor
Xilinx-ISE 9.1i	Software vendor
Keil software	Software vendor
Matalab R 2012a	Software vendor
Microsoft visual studio2008	Microsoft corporation
Microsoft SQL server 2005	Microsoft corporation
Linux	Red hat enterprise Linux
Cadence	VLSI tool box
Solid Edge	Software Vendor
Oracle 10g	Oracle
Catia	Software Vendor

Number of nodes/ computers with Internet facility:

All the computers in the college are networked and provided with internet facility.

Any other

A system administrator has been appointed in – house to maintain and attend all the computer system issues in the college. The computer lab and office is also managed by the programmers and the technicians in the electronics laboratory.

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

• Wi-Fi facility is provided for the students to work in their laptops both in campus and hostels.

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- The library has 10 computers for accessing e resources, NPTEL, IEEE and other open sources with internet connectivity.
- Scanner, print facility and Xerox facilities are also available to the students and the faculty.
- Wi-Fi enabled campus.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

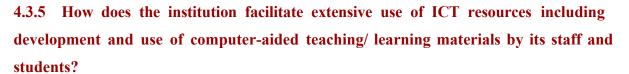
IT infrastructure and associated facilities have been augmented periodically as when and there is a requirement and also to introduce new technology to the student/faculty. This is evident from the fact that our student get experienced in working with computers ranging from server grade, thin client and also work station.

The IT infrastructure is also upgraded in terms of the software again due to frequent revisions and updating in the newer software released.

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year Wise for last four years)

Sl.no	Item	Quantity	Year	Budget in Rs
1	Desktop	165	2012-13	3646500
2	Desktop	50	2012-13	1047000
3	Printers	2	2012-13	13200
4	Printers	10	2013-14	69000
5	Scanner	10	2013-14	44000
6	Computer monitor	10	2013-14	52000
7	Projector	-	2013-14	2,61,000
8	Scannner	01	2014-15	47000
7	Desktop	80	2014-15	810000
8	Server Room		2014-15	1,08,000
9	Server Room		2014-15	61,000
10	Server Room		2015-16	30,000

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- Some of the class rooms are equipped with LCD projector. All the departments have desktop computer with internet facility.
- Even the faculties are using LCD projector instead of Black board teaching
- NPTEL resources are available for access and students are suggested to use them extensively.
- Total computerization of cataloguing of books, issue and return of books with customized software. Computers are used for searching the availability of a book based on title search, author search, publisher search or keyword search for Swift access to library books.
- 4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

All the learning activities are made student – centric with several approaches being put in place. Some of the class rooms are made ICT ready wherein a few teachers have adopted ICT in their class room presentations. The audio – video dissemination of information enables a student – centric learning environment.

Student seminar presentations, project work and field visits enable a student – centric learning environment. The teacher plays the role of a guide suggesting the reference material, books and e – resources to be used.

Access to various open e – resources and NPTEL resources both at the library and the departmental levels enable a student to develop independent learning environment,

The assignments provided to the students render the student to make references in the library books and e – resources suggested by the teacher to complete the assignment.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

NPTEL online resource facilities are available. Students and faculties go through it for

6

ACS College of Engineering

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getting more information on subjects and current technology trends.

4.4 Maintenance of Campus Facilities.

1	Building	House keeping
2	Furniture	Housekeeping, carpenters
3	Equipments	Attenders
4	Vehicles	Drivers, mechanics
5	Computers	System Admin
6	Garden	Gardener
7	Security	Security guards

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last Four years)?

Sl no	Facilities	Budget in Rs	
1	Building	2,47,333	
2	Electrical Equipment	1,69,569	
3	House keeping	3,35,749	
4	Vehicles	22,38,960	
5	Auditorium Acessories	2,58,000	
6	Auditorium Acessories	56,000	

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the College?

- One Supervisor and 15 maintenance workers maintain the regular cleaning & maintaining job.
- Cleanliness is maintained on the campus by disposing all the waste material on a daily basis with the help of sufficient man-power. Waste water is drained out by the well maintained side canals.
- All the Biodegradable waste such as dry leaves, twigs and paper are collected on a daily basis, and made into good compost which again is added to the soil to maintain soil fertility.

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- Each floor is provided with toilets in each of the floors for boys, girls and faculty separately. All the toilets are cleaned every day.
- Besides the regular cleaning process, the environmental protection in the college is maintained by some activities like plantation in which the students also participate as a part of NSS Programs.
- A Computer Hardware engineer (System Administrator) is appointed to ensure the upkeep of all computers in the campus. The system administrator raises the request with one of the servicing companies to do further servicing.
- The laboratory attenders have the job of ensuring clean working conditions in the laboratory and maintaining the cleanliness of the apparatus.
- The laboratory equipments are serviced and maintained by the equipment Suppliers on annual maintenance contract agencies.
- All the labs are maintained by lab assistants with the support of heads of the departments. There are also on call servicemen who attend to the various requirements.
- Stock verification and condition of instruments will be performed by the individual department also.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

The laboratory equipments are serviced and maintained by the equipment suppliers for every semester. The work is recorded in stock register.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- College has a 250 KVA transformer with Breakers & has non-interrupted power supply. During power failures, the electricity backup is provided using diesel generator of 125 KVA.
- The UPS have been provided to each department according to the load.
- All sensitive equipments like computers/ lab equipments are supplied power through online ups and all therefore these equipments are taken care of against voltage fluctuations etc., Electrician are also appointed to overcome any faults in voltage issues.

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• Water purification and softening plant is installed: The College has a water purifying unit with Reverse Osmosis process. The unit Processes 500 liter has an organized supply mechanism to different departments.

Sl. No	Name of the Equipment	Cost of the item
1.	Reverse Osmosis Water Plant(Centrally connected with Taps on each floor)	Rs. 1,60,300

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

- Good support facility and basic amenities
- Automation of library services and good collection of relevant books.
- All laboratories are well maintained and in ideal conditions for laboratory experiments.
- Good Canteen facility to provide hygienic food.
- Six Buses are available to pick up & drop the students & faculties from all major locations of Bangalore.
- Good sanitation facility ensuring good health.

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Criterion - V: Student Support and Progression

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Criterion - V: Student Support and Progression

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If _yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes. The college publishes updated prospectus every year which contains information regarding the various disciplines in engineering, infrastructure & facilities provided like library, transportation, medical, hostel etc. Also admission eligibility conditions will be mentioned.

5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

Yes. The scholarship facilities have been provided to the students and it was disbursed on time.

	SCHOLARSHIP FOR SC & ST							
			UG					
	ACADEMIC		NUMBER OF	SANCTIONBE	D AMOUNT (RS.)			
Sl.No	YEAR	COMMUNITY	STUDENTS BENEFITTED	SCHOLARSHIP	TFW			
		SC	9		344,810.00			
1	2011-2012	ST	1		39,710.00			
		Total	10		384,520.00			
		SC	19		824,630.00			
2	2012-2013	ST	8		374,480.00			
		Total	27		1,199,110.00			
		SC	27		1,183,320.00			
3	2013-2014	ST	16		803,920.00			
		Total	43		1,987,240.00			
		SC	45		2,066,080.00			
4	2014-2015	ST	20		924,960.00			
		Total	65		2,991,040.00			
4	2015 2016	SC	49					
4	2015-2016	ST	15					

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		T	otal	64			
		SC	HOLAF	RSHIP FO	OR S	SC & ST	
				PG			
				NUMBER	OF	SANCTIONBE	D AMOUNT (RS.)
S.No	ACADEMIC YEAR	COMN	MUNITY	STUDEN BENEFIT	TS	SCHOLARSHIP	TFW
		,	SC	3			210,760.00
1	2013-2014	,	ST	1			70,620.00
		T	otal	4			281,380.00
		,	SC	2			144,020.00
2	2014-2015	2014-2015 ST		1			68,720.00
		T	otal	3			212,740.00
		,	SC	1			
3	2015-2016		ST	0			
		Т	otal	1			
			SCHOL	ARSHIP I	FOR	OBC	
				UG			
Sl.No	ACADEMIC '	YEAR COMM		MUNITY S		ANCTIONED NUMBER	AMOUNT (RS.)
1	2011-201	2	OBC		BC 68		1,977,920.00
2	2012-201	3	O	BC		166	2,792,940.00
3	2013-201	4	O	BC		185	1,580,490.00
4	2014-201	5	O	BC		251	4,480,100.00
5	2015-201	6	O	BC	343		

5.1.3 What percentage of students receive financial assistance from state government, central government and other national agencies?

All SC /ST students get financial assistance in terms of scholarship from the Government as per the Government regulations. Around 15% of the students.

5.1.4 What are the specific support services/facilities available for

> Students from SC/ST, OBC and economically weaker sections. The institution provides different scholarships, fee concession, and other facilities along with the state government norms.

> Overseas students:

Regional Language classes and English Speaking classes are conducted.

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> Students with physical disabilities:

Lifts are available. Wheelchairs are provided and scholarships are also provided.

➤ Students to participate in various competitions/National and International

The college provides registration fees and travelling expenses for the students. Benefit of attendance is provided for students to participate in events. Re-tests are scheduled for such students if they are not able to appear for the tests while participating in events.

> Medical assistance to students: health centre, health insurance etc.

The sick students can make use of the hospital facility run by our esteemed management. The students can make use of hospital facility at any time. The group health insurance is available for the students. On campus doctor is available and first-aid kits are available. The college has provided a fully equipped modern gym for the students benefit.

> Organizing coaching classes for competitive exams:

Yes. Coaching classes for GATE are conducted.

> Skill development (spoken English, computer literacy, etc.,)

Language classes, Personality Development Programs and soft skill courses are regularly conducted for each semester of each department.

> Support for -slow learners"

The College/Department arranges remedial classes, tutorial classes, Guest and special lectures for slow learners and weak students for problematic subjects. Revision classes for identified slow learners are conducted. Enrichment courses and counselling for such students are done regularly.

> Exposures of students to other institution of higher learning/ corporate/ business house etc.

The Institution gives provision for individual departments to visit industries. Encourage students to go to the other institutions to present papers, attend workshops, conferences etc.

Publication of student magazines:

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Yes. The college publishes students magazine.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

Yes. Workshops and Technical seminars are being conducted.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co- curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

The institution gives additional academic support like flexibility in examinations(only for Internal Assessment), additional attendance for the participating days if they face shortage. Sports uniform (Jersy) and other materials are provided by the institution. A large number of students – both male and female participate in the College annual sports day and win medals, mementoes, trophies. The appreciation certificates along with medals and prizes are awarded to these winners during the college annual day and graduation day celebrations. The few photographs of sports and cultural events are widely covered in the college magazine. This also encourages and motivates the students to take part in more numbers in the extra-curricular activities.

All the Annual Athletic Meet and sports are organized in the college ground and below are events conducted regularly in the meet.

Events(Boys)	Events(Girls)
Athletics	Athletics
100mts	100mts
200mts	200mts
400mts	400mts
800mts	800mts
1500mts	Long Jump
High Jump	Shot Put
Shot Put	Discuss Throw
Discuss Throw	Volley Ball
Volley Ball	Throw Ball
Cricket	Shuttle Cock

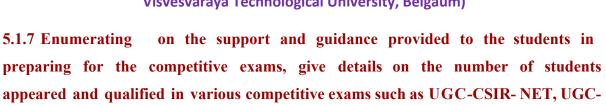
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NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense,

Civil Services, etc.



Sl No	Name	Department	Examination
1	Rohini Thevi	Biomedical	GRE,TOFEL
2	Harish K.P.	Aeronautical	GRE,TOFEL
3	Jayanth Kumar	Aeronautical	GRE,TOFEL
4	Judhisthir M	Aeronautical	GRE,TOFEL
5	Mahantesh N H	Aeronautical	GRE,TOFEL
6	Shivashankar	Aeronautical	GRE,TOFEL
7	Syed F	Aeronautical	GRE,TOFEL
8	Tabrez	Aeronautical	GRE,TOFEL
9	Vinutha K V	ECE	GATE
10	Deepika	CSE	GATE
11	Suhaas R	CSE	GRE,TOEFL

5.1.8 What type of counselling services are made available to the students (academic, personal, career, psycho-social etc.)

YES, The Institution has evolved a procedure called a Mentor-mentee system. The Objective of the system is to extend assistance, guidance and counselling to the needy students to come out of their academic weaknesses and perform effectively in the academics. The system helps in eliminating / minimizing the percentage of dropouts and to achieve academic excellence in the Institution.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If _y&', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the program).

YES, The Institution has been regularly conducts Personality development programs for all

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the students and develops them to acquire the right soft skills. The Institution has in place MoUs with Industries and Business houses for Campus interviews. The Placement Cell coordinates with Industries and Business houses and organizes the Campus interviews.

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

YES, The Institution has Grievance redressal Committee. As and when grievances are reported the committee meets and redresses the grievance. In addition to the above, Suggestion boxes are kept for the students to write and drop describing their grievances. No such untoward incidence has occurred so far.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

Yes, as per the guidelines of Govt. of India the Institute has formed Sexual Harassment Elimination Committee, which is responsible to resolve issues pertaining to sexual harassment of women in work place. Due to the harmony and cultured work place, the Institute has never faced such type of complaints since the inception of the Institute.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

YES, an anti-ragging committee is constituted with the representation from all departments as per guidelines of UGC/AICTE. A formal guideline stipulates the various activities/functions and the procedure to be followed.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

Medical Consultation 100% fee Waive off is provided to students of the institution. Management Scholarship of Rs.1000 per month is provided for financially weaker students. Semester wise class toppers, university rank holders, subject toppers are being given certificates and cash prizes or gift vouchers. Innovative student projects are funded by the management.

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5.1.14 Does the institution have a registered Alumni Association? If _yes', what are its activities and major contributions for institutional, academic and infrastructure development?

Yes. The institution has registered for alumni. Alumni meets every year, and gives suggestions guidelines for the students also delivers guest lectures and seminars to improve the quality of the students.

Office Bearers:

President: Mr.Naveen kumar B

Working President: Miss. Harshitha

Vice President: Mr. Vinayshankar

Secretary: Mr.Sanjay

Joint Secretary: Mr.Shivashankar

Treasurer: Ms. Deepika J

Member: Mr. Akshay

Member: Miss. Mamtha

Member: Miss. Bhavyashree

Activities include:

- > Coming up with an Alumni website
- Participating in alumni meets
- ➤ Giving seminars for the benefit of College students among other things.

Alumni contributions include:

- > Delivering seminars on latest trends and technologies
- Interacting on a informal basis with current students
- Providing feedback on academic activities
- Providing placement related exposure to students

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5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Student progression	%
UG to PG	30%
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Employed	
Campus selection	50%
Other than campus recruitment	

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Results UG

Department	Passing %			
Depar tillent	2012-13	2013-14	2014-15	
AE	-	70	83	
ME	100	96.5	98	
CV	100	96	96	
EEE	-	-	100	
ECE	100	100	96	
BME	-	100	100	
CS	100	92	100	

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

Yes, Institute organizes seminars and lectures related to higher studies and career related topics. Coaching classes for competitive examinations like GATE, UPSC, TOFFEL, and GRE are held.

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There is structured mechanism for career guidance and placement of its students in the name of Training Counselling and Placement Cell.

Options in choosing higher education (PG) and in terms of employment opportunities and their future prospects are adequately provided in the workshop.

		Number of Students progressing to					
Department	Year	Hi	Higher Education for the Last 4 years				
Department	Tear	M.E/ M. Tech.	M.B.A	M.S	P.G Diploma	Total	
	2012-13		•	N/A	1	1	
AE	2013-14	3	-	5	-	8	
	2014-15	-	-	1	-	1	
	2012-13	3	-	-	-	3	
ME	2013-14	6	-	-	-	6	
	2014-15	5	-	-	-	5	
	2012-13	2	-	-	-	2	
CV	2013-14	3	-	-	-	3	
	2014-15	5	-	-	-	5	
	2012-13		1	N/A	ı	J	
EEE	2013-14	N/A					
	2014-15	1	-	-	-	1	
	2012-13	1	-	-	-	1	
ECE	2013-14	5	-	2	-	7	
	2014-15	-	-	-	-	-	
	2012-13		1	N/A	ı	J	
BME	2013-14	3	-	1	-	4	
	2014-15	1	-	-	-	1	
	2012-13	2	-	-	-	2	
CSE	2013-14	4	1	1	-	6	
	2014-15	3	-	-	-	3	

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5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

YES, additional academic support, flexibility in examinations, special dietary requirements, sports uniform and materials.

College level Fests will be conducted once in a year. Paper presentation, quiz program, poster presentations and cultural activities will be conducted as part of these Fests. Concessions will be given in the form of attendance, flexible examination schedule to the students who participate in the above Events. Tutorials and Remedial Classes are being conducted for the students who are at risk of failure.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

- 1. Volleyball Boys & Girls
- 2. Basket Ball Boys & Girls
- 3. Throw Ball Girls Only
- 5. Badminton Boys & Girls
- 6. Cricket Boys
- 7. Caroms Boys & Girls
- 8. Table Tennis Boys & Girls
- 9. Chess Boys & Girls
- 10. Long Jump Boys & Girls
- 11. Short put Boys
- 12. Javelin Throw Boys
- 13. Discuss Throw Boys

Sl. No.	NAME OF THE STUDENT	TOURNAMENT	YEAR	ORGANISED COLLEGE	RESULT
1	Sree lakshmi	Table tennis	2011	ACSCE	2nd Prize
2	Yogesh, lohith & team	Cricket	2014	SJBIT	WINNER
3	Yogesh, lohith & team	Cricket	2015	AMIES	RUNNER
4	Yogesh,lohith & team	Cricket	2015	DBIT	RUNNER
5	Yogesh	Athletics 100m	2015	ACSCE	1st place

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6	Gowthami	Volleyball	2015	VTU	semi finals
7	Lohith kumar	Short pitch	2014	AMIES	Runners
8	Yogesh, lohith & team	Cricket	2015	SJBIT	WINNER
9	Rakesh Gowda.S.N	Basketball	2012	SJBIT	Runners
10	Rakesh Gowda.S.N	Basketball	2015	SJBIT	Runners
11	Ankit Kumar Singh	Football	2014	DBIT	Runners
12	Ankit Kumar Singh	Basketball	2015	SJBIT	Runners
13	Tejaswini N D	Throwball	2015	RRCE	Runners
14	Tejaswini N D	Athletics	2015	VTU,Belagavi	Runners
15	Akshay M R	Cricket	2014	SJBIT	WINNER
16	Akshay M R	Cricket	2015	AMIES	RUNNER
17	Akshay M R	Cricket	2015	DBIT	RUNNER
18.	Shalini D N	Throwball	2015	RR group	RUNNER
19.	Shalini D N	Shotput	2012	ACSCE	Winner
20.	Shalini D N	Shotput	2013	ACSCE	Winner

- Cultural activities include outdoor sports, quiz contests, debates and socio-cultural programs, drama and dance organized by the college.
- > The college also has an annual Sports Day at which many competitions for students and staff are organised.
- ➤ The College hosted VTU zone-level Women's Volleyball match in February 2015.
- ➤ The college holds cultural competition during Even semester every year named AAROHANA.

Events in AAROHANA include:

- Group and Solo Dance
- Group and Solo Singing
- Skits
- Mad-ads
- Essay-writing
- Debate
- Collage

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- Rangoli
- College also Celebrates Founders day every year and participate in Inter-Institutional Activities. Our College Students have successfully won the chairman's trophy every year.
- ➤ Department Level activities are held once in a semester like rangoli, quiz, singing during festival celebrations.
- ➤ Department celebrates all festivals ethnically to promote and maintains ethnicity among students who are away from home and staying at hostel.
- Ayudha Pooja, Ramanavami, Deepavali, Ganesha Chaturthi etc are celebrated.

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Our students are actively participating in the Aero modelling club. They have participated in many national and inter collegiate competitions and also have won many. We are proud to say that our students got the first place in Aeromodelling & flying competition organized by IIT and sponsored by Boeing during 2014 and second place during 2015. Our students have been in the college cricket & volleyball teams and have participated in many tournaments; including organized by VTU.

Sl · N o	Name of the Students	Events	Departme nt	Date	Name of the Program & Organizer	Awards
1	Raviteja	Paper presentation	EEE	29.10.20 15	CLONEOLECTRI C 11, ACS College of Engineering, Bangalore.	Second Prize
2.	Ramya	Paper presentation	EEE	29.10.20 15	CLONEOLECTRI C 11, ACS College of Engineering, Bangalore.	Second Prize
3.	Shamanth Kumar	CADD Modeling	ME	10.04.20 15	CADD Modeling in Technical Symposium at NIE, Mysore	First Prize
4.	Suhas V. and Tejas Kumar	Paper presentation	ME	24.04.20 15	National Conference held at JIT, Bangalore	Second Prize





5.	RakshithSriniv as, Naveen Kumar, Mahantesh	Project Presentatio n	ME	2014	State Level project exhibition —TECHNODEA" – 2014, held at SSIT, Tumkur	First Prize
6.	Gagan N H	Clay Modeling	ECE	2015	VTU Youth Fest- 2015, Belagavi	Second Prize
7	Jaisimha and Sandhya	Circuit Debugging	ECE	29.10.20 15	CLONEOLECTRI C 11, ACS College of Engineering, Bangalore.	First Prize
8	Nagashree G	Logo Designing	ECE	29.10.20 15	CLONEOLECTRI C 11, ACS College of Engineering, Bangalore	First Prize
9	Madhu B R Mubeena Taj	Quiz	CSE	2015	Praxis- 15,Technical Symposium	Runner
10	Saurabh, Rajath	Logo Quiz	CSE	2015	Praxis- 15,Technical Symposium	Winner
11	Akash Dalmia	Type test	CSE	2015	Praxis- 15,Technical Symposium	Winner
12	Nagendra N	Type Test	CSE	2015	Praxis- 15,Technical Symposium	Runner
13	Madhu B R	Tickle your Brain	CSE	2015	Praxis- 15,Technical Symposium	Winner
14	Puneeth M	Tickle your Brain	CSE	2015	Praxis- 15,Technical Symposium	Runner
15	Akash Dalmia	Pick and Speak	CSE	2015	Praxis- 15,Technical Symposium	Winner
16	Riyazzat Durrani	Pick and Speak	CSE	2015	Praxis- 15,Technical Symposium	Runner
17	Amarashree P AshikaV Parimala N Vinutha K V	Paper presentation	ECE	24,25 Apr, 2015	NCPCCI- 15 RVCE, Bangalore	Certified
18	Amarashree, Ashika, Parimala and Vinutha	Paper presentation	ECE	31/03/20 15	SPCN – 2015 ACSCE,Bengalur u	Certified
19	Gaythri D, Tejashwini N D	Paper presentation	ECE	31/03/20 15	SPCN – 2015 ACSCE,Bengalur u	Certified
20	Sunil Kumar K V	Paper presentation	ECE	15 th May 2014	National conference on Advanced	Certified

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Paper presentation Paper Presentatio Pape			I		T		
Signal Processing Signal Processing Bangalore Paper presentation ECE May 2014 Conference on RF & Wireless, HSKECE,Bangalo RECE May 2014 Meghashree Paper Presentation ECE Salo Certified May 2014 Mohan Prasad Paper Processing Certified Certified May 2014 Mohan Prasad Paper ECE May 2014 Mohan Prasad Paper Presentation ECE Salo May 2014 Mohan Prasad Certified Certified Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified May 2014 Mohan Prasad Certified Certified May 2014 Mohan Prasad Certified Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified Certified Certified May 2014 Mohan Prasad Certified Certified Certified May 2014 Mohan Prasad Certified Cert						communication,	
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31	Chandana Phathak Indushree	Paper Presentatio n	CSE	31 st March 2015	SPCN-15 ACSCE,Bangalore	Certified
32	Madan Pradeep	Paper Presentatio n	CSE	31 st March 2015	SPCN-15 ACSCE,Bangalore	Certified
33	Ganesh Prasad Bharath Suresh	Paper Presentatio n	CSE	31 st March 2015	SPCN-15 ACSCE,Bangalore	Certified
34	Abhishek	Paper Presentatio n	CSE	29.10.20 15	CLONEOLECTRI C 15, ACS College of Engineering, Bangalore.	Presented
35	Shobha N Sushma J	Paper Presentatio n	CSE	31 st March 2015	SPCN-15 ACSCE,Bangalore	Certified
36	Roja K Deepika	Paper Presentatio n	CSE	31 st March 2015	SPCN-15 ACSCE,Bangalore	Certified
37	Jaya and Team	Fashion Show	CSE	2015	Global Academy of Technology,Bengal uru	Winners
38	Tabrez and Team	Aero Modeling flying	AE	11-04- 2015	IIT Delhi	First Prize
39	Harsha.L.Singh	Debate & Elucution	BME	2015	VTU Youth Fest-2015, Belagavi	Participat ed
40	Raveena.P & Aasma Chhetri	Group Western singing & group folk dance	BME	2015	VTU Youth Fest-2015, Belagavi	Participate d
41	Kavya.P & Abhik	Quiz	BME	2015	VTU Youth Fest-2015, Belagavi	Participate d
42	Abrar Ahmed	Skit	BME	2015	VTU Youth Fest-2015, Belagavi	Participate d
43	Harsha.L.Singh	Short put	ВМЕ	26 th -28 th March 2016	VTU Athletic meet, Belgavi	Participat ed

Students Projects:

Sl.No	Name of the	Project Title	Dept.	Year	Name of the
51.110	Students				Sponsor/Sectors

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	1				1
1	Rakesh G, Sachin, Bharath & Karthik	Smart system tracker with real time compression that supports SOC	ECE	2015	KSCST
2	Bindiya K Bindu R& Mamatha Bai	RTU & Micro SCADA	ECE	2014	ABB, Bengaluru
3	Anusha R Sarayu Gajendra &Manjula K	Design & fabrication of test facility to test auto synchronizer for generator and grid synchronization	ECE	2014	BHEL, Bengaluru
4	Deepika J Mohan Prasad& Sunil Kumar K V	Design and development of microwave filters for active phased array	ECE	2014	DRDO, Bengaluru
5	Shilpashree Shruthi G Sindhu Gowda	Digitized fuel probe testing in helicopters using Microcontroller	ECE	2014	HAL, Bengaluru
6	Harshitha R Kirana Upadhya PrasadRavi Bhatt &Vinutha K	Design and development of microwave filters for active phased array	ECE	2013	BHEL, Bengaluru
7	Denita Supriya &Usha N	Microwave Synthesizer	ECE	2013	BEL, Bengaluru
8	Sanju H	Bio-Composites Bumper for automobiles	Mech	2015	KSCST
9	Venugopal	Biogas production from paper waste with blend	Mech	2015	KSCST
10	Amrthnarayana	Experimental and computational simulation of producing ultrafine grain Size in aluminum sheet by severe plastic deformation	Mech	2015	KSCST
11	Vinay C	Investigations on the influence of micro fillers on three-body abrasive wear behavior of glass	Mech	2015	KSCST
12	VinayKumar A Srihari Y G ShreelaksmiSG Deepa M A	Efficient Automation of concrete Batching Plant using PLC &SCADA	EEE	2015	KSCST
13	Manjunath. S Usharani. K Yogesh. L.L	Relative attitude estimation from vector observation.	AE	2015	ISAC, Bangalore
14	Lalith KishoreM Surendra Kumar Vijaya Bharathi	Design and validation of welding fixtures for aircraft welded pipe	AE	2015	HAL, Bangalore
15	Arun Kumar. VDevaraj. D.NManjunath.H.K	Operational sequence of anti-skid braking system.	AE	2015	HAL, Bangalore

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5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- Alumni give their suggestions and ideas in the meet and keep meeting once in months to give suggestions to college.
- ➤ The college takes suggestions, guidelines from its graduates to improve the quality of institution.
- Yes, the Feedback form is analysed by the management and the committee members, and any
- ➤ Holistic feedback is implemented for the improvement of the quality of education.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.

Yes, there exist societies at Departmental level by which annual Departmental magazines are published. The students participate actively through this society for publication of the magazine. The students also come up with innovative poster designs and event campaigns for College and department events. College releases a Newsletter and a magazine every year.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

The institution has an active body of students that functions in planning and carrying out various activities of the college. There is a formally elected Student Council.

Every class has Class Committee in which students are the members. The students represent their views in subjects, syllabus and other related issues and problems. NSS, NCC, ISTE, IEEE Students Chapters have students' representations and the organize various programs like paper presentations, symposiums, workshops, seminars every year. The funding will be provided by the college to organize the activities.

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5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Yes, the Institution creates a platform for the involvement of the students in various academic, administrative and other activities. This empowers students to gain qualities of leadership and governance.

Class Committee:

The Class Committee is formed by every department where students of each year are members in the committee. It organizes Class Committee meeting thrice in a semester to discuss the syllabus coverage, difficulties in the subjects, any other issues or problems of the students.

> ISTE Student Chapter, IEEE Student branch:

Students are the members of this chapter. Under this, academic activities like symposiums, workshops/seminars, paper presentation competitions, quiz, project Competitions are conducted.

Department Association:

It organizes programs regularly to enhance the skills of the students. Students are the office bearers of department associations. Under these, academic activities like symposiums, workshops/seminars, paper presentation competitions, quiz, project Competitions are conducted.

Academic and administrative bodies that have student representatives on them are Class Committees, Sports Committee, Training & Placement Cell, Grievance and redressal cell, women empowerment cell, anti ragging committee, Sexual Harassment Elimination Cell, Cultural committee.

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

Alumni has been registered with society number JNR-S222-2014-15 and an online mailing group is formed for communication and an yearly meet and seminars and career guidance sessions are organized for benefit of students. YES, recently we have started Alumni association and the institution is intimating to all the old students about the growth of the institution in the recent years, and as the things mature we see a great opportunity of association with the alumni association.

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Criterion - VI: Governance, Leadership and Management

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Criterion - VI: Governance, Leadership and Management

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Our Vision

Single window delivery of total engineering education and services

Total quality management in engineering education, Service, and research.

Promote unique work culture in providing engineering services

To train general, specialized, advanced & allied engineering professional personnel to meet regional & national and global engineering services demands

Work to contribute to global engineering education, knowledge, skills& research.

Be efficient, effective, community acceptable, and excel in service Education & research.

To impart knowledge, & interact with organizations of similar interest.

Fostering global competencies, inculcating value system among learners

Promote use of technology of relevance

Reach the unreachable with awareness, engineering education, research & service

Serve the underserved community with engineering education

Our Mission

Learner centered Engineering Education

industry centered service

Community oriented research

Strong community relationship

Serve the underserved community through engineering services Meet the regional, national and Global Engineering Educational, service and research needs Inter organizational linkage

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Strategic future oriented planning
Excellence in knowledge, skills and service
Professionalism in engineering management
Open organizational climate

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

Continuous monitoring the performance of the students in and motivating them to perform better and better and giving sufficient knowledge about the recent trends in the respective field and make them ready according to the need of industry.

Proctor system helps us to enhance to go according the policy plans and individual care is almost taken in nullifying the student's grievance.

6.1.3 What is the involvement of the leadership in ensuring?

The college has instituted several committees which provide opportunity to the faculty members to improve their leadership skills. The committees are formed at institute level, departmental level and also at student level. Institute level committees such as academic council, finance, malpractice committee, grade review committee, library committee, discipline, canteen, cultural, sports, family welfare, alumni Departmental level committees for curriculum development, examination, departmental programs, student progress monitoring, etc are formed. Students committees are formed for programs at institute and department levels, cultural, activity clubs. These numerous committees promote leadership skills in faculty and students. Institute organizes training programs on development of leadership. The faculties are also motivated to attend such programs.

Leadership at all levels -Members of Management, Chief Executive, Principal, Head of the department are easily approachable and welcome all stakeholders viz. students, parents, alumni, employers etc. for any compliance or suggestions for improvements. Members of management meet the faculty once in a semester to advise them, invite suggestions for improvements. Parents are invited to orientation, graduation and for meetings with faculty. They are regularly informed about the progress of their ward through both hardcopy postage and through Student Information System (SIS) where they can log on to know the details. A meet of alumni is organized every year during the third or fourth week of January.

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Distinguished alumni of each department and eminent persons from industry are also members in respective Board of Studies.

The institute completed six glorious years Over the years it has evolved through continual redesigning and refinements in its policies and procedures for catering to increasingly demanding stakeholders, under the leadership of a visionary management. Providing excellent infrastructure, state of art laboratory facilities and upgrading it, merit based recruitment policy, implementation of revised pay scales and encouraging faculty for research and programs for knowledge development ensure commitment to excellence.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

- > Proctor system
- > Faculty evaluation
- Mandatory rules such as at least one paper in a conference
- > Student in-house project by applying in VGST, KSCST to get financial assistance

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

Administrative leadership: Governing Council

Functions of Governing Council: Governing Council normally meets at least 2 times in a year to

- Approve institution of new programmes of study leading to degrees.
- To plan for the infrastructure development of the institute.
- ➤ To approve the budget submitted by the Finance Committee.
- Medals, prizes and certificates to be awarded to the students
- > Review admissions and students graduating
- > Faculty requirement and recruitment.

6.1.6 How does the college groom leadership at various levels?

The college believes in decentralization at top level.

There is a vice-Principal who shares the administrative burden of the Principal.

The Heads of the department are solely in-charge of academic activities, infrastructure,

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Department administration, research and student issues.

Laboratory in chargers are assisted in various activities by The Head of the department.

Every department has a PG coordinator who is responsible for their academic activities of PG students and also supposed to mentor them.

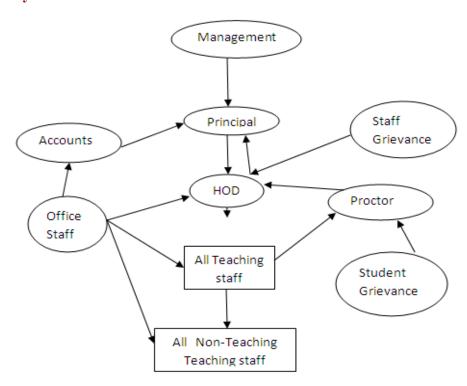
The following decentralization has helped in making the leadership realize the various intricacies of leader ship and management

- ➤ Hostel committee
- Disciplinary committee
- ➤ Library committee
- ➤ Malpractice consideration committee
- ➤ Anti-Ragging committee
- Grievances Readdressal Cell

Participation in these committees enable them to acquire the required leadership skills

The faculty is regularly deputed to attend workshops on leadership, improvement in management and administrative skills, etc.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?



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6.1.8 Does the college promote a culture of participative management? If _y&', indicate the levels of participative management.

Yes, the College promotes a culture of participative management. Members of the faculty represented in higher managerial bodies such as governing body and Academic Council of the institute. Meeting of the Members of Management and faculty is organized once in semester where suggestions for improvements are discussed.

6.2Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes

Quality Policy: To impart quality education in Science, Engineering and Technology, nurturing right attitudes towards scholarship, research and Entrepreneurship, enabling students to meet the challenges of industry, society and environment

It is designed in such a way that it can be continuously measured, monitored and corrective actions can be taken to maintain quality of education imparted

Steps in driving, deploying and reviving the quality

Departmental UG Committee

- ➤ Academic audit
- Research Council
- > Faculty advisor
- Class teacher
- Faculty mentor
- > Student counselor
- Deans
- > Parents meeting
- > Feedback mechanism / online
- > Grievance committee
- > Self-appraisal of faculty
- ➤ Appraisal of faculty by HOD/principal
- > Involving external examiners in Question Paper Setting, assessment in theory and lab exams

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- > VTU mid-term revision
- Accreditation Process

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes, undoubtedly the institute has a perspective plan for development. The institution takes strenuous effort in listing out the key performance indicators from various perspectives for performance assessment and development. It addresses the various issues from the stake holder perspective that is, it takes steps to fulfill the requirements of its students, their parents, employer community etc. The institution has an active placement cell addressing the campus placements and it organizes for parents meet to convey their wards performance and to take their inputs as well. It takes feedback from the employer community in order to plan for extra coaching and imparting the necessary skills.

It also takes effort for improving the internal development of the institution by inculcating harmonious work culture. It streamlines various processes like evaluating methodologies of teaching learning process, research progress, infrastructure facilities etc.

The institution also encourages student and faculty exchange programmes with various universities. Frequently it signs MOUs with various universities and organization for promoting institute industry interaction.

There is a strategic plan for the progress of institution in different fronts. It is subdivided into

- ➤ Infrastructure
- Academic activities
- Budget and finance
- Research competence
- > Human Resource
- > Environment and community engagement
- Other activities.

6.2.3 Describe the internal organizational structure and decision making processes.

The Management is the supreme body that guides and approves all the Institutional strategic vision, mission and plan – identifying a clear development path for the institution, through its long-term business plans and annual budgets.

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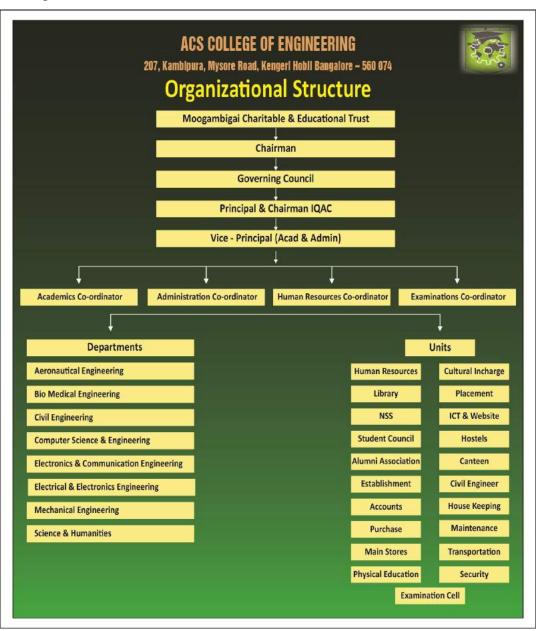
It ensures the establishment and monitoring of proper, effective and efficient systems of control and accountability to ensure financial sustainability.

The Management monitors institutional performance and quality assurance arrangements, through Principal and senior professors who are required to answer any quarries regarding progress, quality, new proposals and other issues this helps in quality assurance.

Academic council is the next statutory body which is responsible for all academic activities like framing academic rules and regulations, Curriculum approval, guiding research activities, result analysis and academic Quality assurance.

Management and Academic Council members participate in various activities and programs of the institution from time to time including conferences and workshops.

The organizational structure of the institution is shown in the chart below:



TO S

ACS College of Engineering

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6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- Teaching & Learning
- Research & Development
- o Community engagement
- Human resource management
- o Industry interaction

ACS College of Engineering ACS college of Engineering is managed by Moogambigai Charitable and Educational Trust, was established in the year 1992 by our respected Chairman Sri A.C. Shanmugam, B.A.L.L.B. with the sole objective for starting institutions of higher education for exemplary stature to serve the people of Karnataka.

The institute with its valuable human resources, ever-improving infrastructure, constantly updated curriculum, and commitment to society recognized its Perspective plan to culminate to a technical university.

ACS has arrived at the long term objectives as

- To establish a global network of centers of excellence
- To deliver quality training programmes consistently
- To meet the requirements of customers continuously
- To recruit the best teaching talent and create an environment for high level performance
- To develop, improvise, customize technologies and teaching methodologies
- The policy and strategies in this regard are framed and reviewed by the Governing Council of the institute. The specific objectives are set to be achieved through the implementation of certain Key Activities identified below:

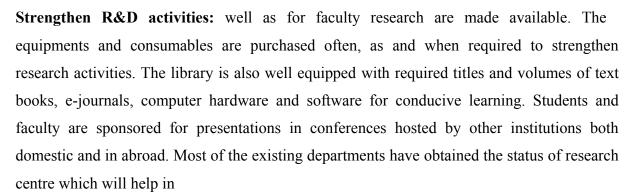
Improve UG and PG curricula and knowledge delivery: Ensure that all eligible UG and PG programmes are accredited by NBA and NAAC, increase the number of Masters Programme, increase the number of Ph.D. students, and improve the placement of students.

Upgrade the skills and competencies of faculty and staff through continual training programs: Increase the number of research publications in refereed journals, improve the number of patents, increase the number of faculty attending workshops and training programs and depute faculty members to pedagogical training

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ACS College of Engineering

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establishing hard core research activities, supervising and awarding PhDs. Improve the revenue from externally funded R&D and consultancy work and number of collaborative programs. Help faculty members to upgrade their qualifications and attract faculty members with distinguished achievements in specialized areas: Increase the percentage of regular faculty with Ph.D. in engineering.

Community engagement

The institution actively participates in NSS and NCC. Frequently NSS camps are arranged for promoting community service.

Human resource management

Employees are given utmost importance and their needs are recognized well. The service rules are made transparent and they are benefited with PF, medi-claim policies etc. The faculty are entitled with other benefits like CL, EL, ML, adequate vacation, accommodation in quarters for a few faculty inside the campus, inhouse dispensary etc. Pay slips are put up online every month and the salary will be credited to the salary account of the employees on the last working day of every month.

The institution frequently arranges for training programmes in-house and also deputes to other organization for acquiring balanced skills (technical skills, teaching skills, soft skills etc.) from all dimensions. Every time equipment is purchased and installed, software is purchased and installed, the department arranges for a demo session by the supplier.

The institution encourages quality improvement programmes and deputes faculty on sabbatical leave for higher education. Their progress is monitored and based on their achievements incentives are paid, accounted during their appraisal based on which promotions are implemented.

Industry interaction:

The institution has an institute industry interaction cell headed by the industry objective leader of the institution. They promote industrial training for the students and for the faculty

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as well. Students are sent for internship programmes for a maximum of six weeks during their stay to other industries and universities both domestic and abroad for promoting collaboration. Hence, the institution creates a tie up and signs MOUs. Every academic year it is made sure that the students are taken for a minimum of twelve industrial visits. Both UG and PG students are motivated to undertake their end semester project in the relevant industries of their domain, thus exposing and preparing them to meet the real time requirement in the industry.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

Yes, at the end of every semester feedback is taken from the students in the manner of subject, staff and semester wise, the same will be analysed by the head of the institution. Through head of the institution it is known to individual faculties about its merit and demerit. The review meeting will be conducted every month or else at the end of internals for analysing the progress of the semester.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

Each faculty is given freedom to implement his/her thoughts for the improvement of the institution and if he/she does well it will be earn marked by the Management.

Faculty are encouraged to do Ph.D.

Every year after appraisal with respect to the review of the faculty performance increments are awarded.

To improve the teaching learning process SMART class rooms are provided for each department.

Faculties are encouraged to attend workshops and conferences by sponsoring registration fee.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

- > To boost the research activities R&D cell in CSE has been started and ECE in progress.
- > To retain faculty with Ph.D qualification and to ensure the overall growth of the institution.

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- > To become member of various professional bodies: all departments are members of technical professional bodies
- Faculties are encouraged to attend workshops, conferences, by sponsoring registration fees and special leave which is implemented from current academic year.
- ➤ To provide 100% placements in all departments; Special placement training courses are conducted.
- ➤ To get 100% university results.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If _yes', what are the efforts made by the institution in obtaining autonomy?

Not Applicable

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The institute has a grievance committee to address complaints effectively and promptly. Suggestion boxes are maintained. The Grievances received are analysed and if required an enquiry is conducted.

A report is prepared submitted to the Principal. Appropriate action is taken as per the consensus of the committee. In many cases parents are called and counselling done or the decision of the Committee is intimated. The grievance matters are stratified depending on the nature of complaint and the concerned institutional members are invited to the grievance committee meeting and involving the stakeholders affected in the grievance matter.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No, in the last four years, there are no instances of court cases filed by and against the institute

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6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If _yes', what was the outcome and response of the institution to such an effort?

The institute has a Student Satisfaction Survey in place to collect student feedback, on a semester wise at departmental/course /faculty level. Feed back analysis is done by committee formed by Principal.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

- Each faculty member will participate in at least one faculty development
- programme for every semester.
- Each faculty must be a member of at least one professional society.
- > To upgrade the skills of the faculty, the management of the institution encourages its people to register for higher studies.
- > Supporting staffs are encouraged to attend training programmes.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

The institute conducts training programs / workshops / conferences regularly for the staff. The institute encourages the staff to publish their work regularly and attend workshops / conferences outside the institute as per the relevance to their work. Faculty members are encouraged to be professional body members. National / International conference fee, TA and DA will be reimbursed by the institution completely or half of the expenses

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better

There are two types of Appraisal carried out for faculty

- Appraisal by HODs and Principal
- ➤ Self-appraisal: Leads to defining one's own on SWOC

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6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

These appraisals have led to:

Identifying Strengths and Weakness of individual, they are also are supporting documents for increments, confirmation, continuation and warnings.

These help in identifying areas in which an individual has to be sent for training programmes.

Decisions are taken for workshops and deputation for additional training

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

Welfare measures	% Utilization
Transport facility	80%
Med claim contribution	100%
Provident fund as per State Govt norms	100%
Fee concession for wards of employees of all	On average 1%
educational institutions	
Uniform for Group D	100%

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The institute offers pay-scales as per AICTE norms.

Additional posts like Special officer and Deans Created.

Due weightage to talented external candidates with industrial and academic experience for higher positions.

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6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The utilization of financial resources at the institute is broadly classified under payments towards salaries of employees, development projects, and purchase of equipment / instruments software.

The mechanism that is in place to monitor effective and efficient utilization of payments towards: salaries of employees are the comprehensive annual employee appraisal system, and purchase of equipment/instruments/software is elaborated in the procurement policy. The procurement of equipment goes through scrutiny at various administrative levels depending on the budget. The Principal along with the Chief Finance Officer and the Chief Executive play an important role in processing procurement.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Yes. The internal and external audit of the financial expenditures exists. The institution is having Charted Accountant as internal and external auditors who are auditing the accounts of the college once in 6months. After the audit the report is sent to the management for the review.

There are no such major objections raised during auditing.

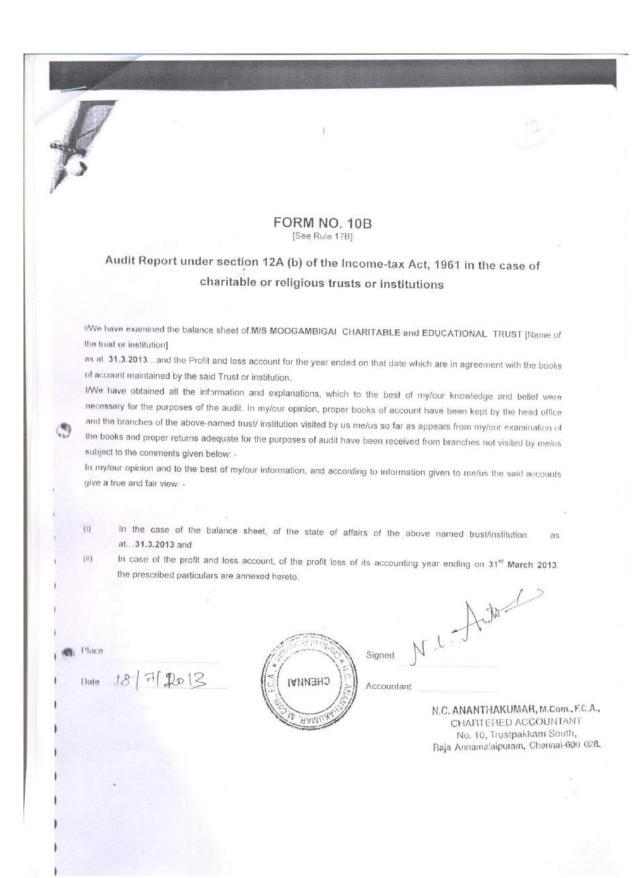
6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

The majority of the monetary resources at the institute are obtained from the tuition fees collected from the students. Apart from this trust is funding for infrastructure Institution is also collecting fee towards hostel and transport.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Management itself bears all the funding.







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4	1			
1		ANNEXU		
1		STATEMENT OF P	ARTICULARS	
		Application of income for chari	table of religious purposes.	
	1.	Amount of income of the previous year applied to	Rs 1.18, 73, 25, 769	
		charitable or religious purposes in India during that	10, 12, 25, 151	
	72	year		
	2	Whether the trust/institution has exercised the option	NIL	
		under clause (2) of the Explanation to section 11 (1)? If so, the details of the amount of income deemed to have		
		been applied to charitable or religious purposes in India		
		during the previous year		
	3.	Amount of income accumulated or set apart /finally set	NIL	
		apart for application to charitable or religious purposes,		
		to the extent it does not exceed 25 per cent of the		
		income derived from property held under trust wholly fin		
,		part only for such purposes.		
	4:	Amount of income eligible for exemption under section	NIL	
		11(1)(e) [Give details]		
	0,	Amount of Income, in addition to the amount referred to in item 3 above, accumulated or set apart for specified	NIL	
		purposes under section 11(2)		
	6.	Whether the amount of income mentioned in item 5	NIL	
		above has been invested or deposited in the manner		
		laid down in section 11(2)(b)? If so, the details thereof.		
	7,	Whether any part of the income in respect of which an	NIL	
		option was exercised under clause (2) of the		
		Explanation to section 11(1) in any earlier year is		
		deemed to be income of the previous year under		
		Whether, during the previous year, any part of income	Aut	
-		accumulated or set apart for specified purposes under	NIL	5.00
		section 11(2) in any earlier year: -		
		a) Has been applied for purposes other than	NIL	
		charitable or religious purposes or has ceased to		
		be accumulated or set apart for application		
		thereto, or		
		b) Hee censed to remain invested in any security	NIL	
		referred to in section 11(2)(b)(1) or deposited in		
		any account referred to in section 11(2)(b)(1) or		
		The state of the s		
		(1)		



	4	3. 19
/	c) Has not been utilized for purposes for which it was cumulated or set apart during the period which it was to be accumulated or set apart, or the year immediately following the expiry thereof	for
,	II. Application or use of income or property for the	benefit of persons referred to in section 43 to
	Whether any part of the income or property of the trust/institution was lent, or continues to in section 136 [hereinafter referred to in this Annexure as suppresson]? If so, give details of the amount, rate of interest charged and the nature of security, if any	ne NIL 3) ch
9	trust/institution was made, or continued to be made available for the use of any such person during the previous year? If so, give details of the property and the	3,
140	Whether any payment was made to any such person during the previous year by way of salary allowance or otherwise? If so, give details.	
	4. Whether the services of the trust/institution were made available to any such person during the previous year? If so, give details thereof together with remuneration or compensation received, if any.	
	Mether any share, security, or other property was purchased by or on behalf of the trust/institution during the previous year from any such person? If so, give details thereof together with the consideration paid	.NIL
6	Whether any share, security, or other property was sold by or on behalf of the trust/institution during the previous year to any such person? If so, the details thereof together with the consideration received.	NIL
	Whether any income or property of the trust/institution was diverted during the previous year in favour of any such person? If so, give details thereof together with the amount of income or value of property so diverted.	NIL
	Whether the income or property of the trust/institution was used or applied during the previous year for the benefit of any such person in any other manner? If so, give details.	NIL
	Committed of the second of the	



Investment held at any time during the previous year(s) in concerns in which persons referred to in section 13(3) have a substantial interest. SI		al			4		Ð(
Whether the concern is a company No and class of shares held No. of the concern of the concern is a company No and class of shares held No. of the concern of the concern is a company No and class of shares held No. of the concern of the capital of the concern during the previous year-say. Yes/No. 6 NIL Place; Chennal	1	1						
Place; Chennai	فذر	III. In	vestment held at a	ny time during the	previous year(s)	in concerns in w	hich persons refer	red
SI. Name and address of the concern and class of shares held the investment held lincome from the investment lincome from the investment held lincome from the investment	1	toins	ection 13(3) have a	a substantial intere	st.			
SI. Name and address of the concern and class of shares held the investment held lincome from the investment lincome from the investment held lincome from the investment	1			VARIance Hanne			148	
No of the concern and class of shares the investment investment held investment held investment inv	1	SI.	Name and address		Naminal value of	lucione de la	amount in Col. 4	
Place; Chennai Date N.C. ANANTHAKUMAR, M.Com., F.C. CHARTERED ACCOUNTANT No. 10, Trustpakkam South, Haja Annamalaipurani. Chennai 600 d.		No	of the concern				exceeded 5% of the capital of the	
Place; Chennai					and mirodiffich	nivesinent	concern during	
Place; Chennai Date N.C. ANANTHAKUMAR, M.Com., F.C. CHARTERED ACCOUNTANT No. 10, Trustpekkam South, Haja Annamalaipuram, Chennai 600 oz		1	2	3	-		say. Yes/No	
Place; Chennai				Ŭ.,	4	5	6	
Place; Chennai				NIL				
Place; Chennai								
Place; Chennai								
N.C. ANANTHAKUMAR, M.Com., F.C.: CHARTERED ACCOUNTANT No. 10, Trustpakkam South, Paja Annamalaipuram, Chennai 600 02		Total						
			Charge			110	o. 10. Trustpakkam S	outh.
	SA.							
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	on.							



Form No. 10-B (See rule 17B of the Income-tax Rules, 1962)
AUDIT REPORT UNDER SECTION 12A (b) OF THE INCOME TAX ACT, 1961, IN THE CASE OF CHARITABLE OR RELIGIOUS TRUSTS OR INSTITUTIONS.
*I/We have examined the balance-sheet of MOOS BABIGAL CHARITABLE X
(Name of trust or institution)
as at 31, 03-2012
and the Profit and Loss Account for the year ended on that date which are in agreement with the books of account
maintained by the said trust or institution.
*I/We have obtained all the information and explanations which to the best of *my/our knowledge and belief we necessary for the purposes of the audit. In *my/our munksu proper books of account have been kept by the head of and the branches of the above named *tensifinstation within by *me/us so far as appears from *my/our examination of the books, and proper returns adequate for the purposes of audit have been received from branches not visited the purposes of audit have been received from branches not visited to the purpose of the purpose of audit have been received from branches not visited to the purpose of the purpose of audit have been received from branches not visited to the purpose of the purpose of the purpose of audit have been received from branches not visited to the purpose of the state of affairs of the above named *trust/institution as at 10.3.2012 (ii) in the case of the Profit and Loss Account, of the profit or loss of its accounting year ending on 3.0.2012 The prescribed particulars are annexed hereto.
Signed Signed Signed N.C. ANANTHAKUMAR, M. 66/05/05/05/14, CHANTERED ACCOUNTANT No. 10, Trüstpakkarn South, Raja Annamalaipuram, Chennai-600 028. Strike out whichever is not applicable. This report has to be given by. (i) a Chartered Accountant within the meaning of the Chartered Accountants Act. 1949 (38 of 1949): or (ii) any person who, in relation to any Stole, is, by virtue of the provisions of sub-accion (2) on-accion 226 of the Companies. Where any of the matters stated in this report is anowered in the negative, or with a condition registered in that State.

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ANNEXU	/RE	
STATEMENT OF PA	ARTICULARS	
APPLICATION OF INCOME FOR CHARIT Amount of income of the previous year applied.		
Amount of income of the previous year applied to charitable or religious purposes in the previous year applied to the previous year.	ABLE OR RELIGIOUS PURPOSES :	
charitable or religious purposes in India during that	RS- 976365541/	
2. Whether the trust/institution * has exercised the option under clause (2) of the explanation to Section 11(1)? If so, the details of the amount of income deemed to have been applied to charitable or religious purposes in India during the previous year	NIC	
3. Amount of income accumulated or set apart application to charitable or religious purposes, to the extent it does not exceed 25 per cent of the income derived from property held under trust wholly apart only for such purposes	a.c	
4. Amount of income eligible for exemption under section 11(1) (c) (Give details)	~~	
 Amount of income, in addition to the amount referred to in item 3 above, accumulated or set apart for specified purposes under Section 11 (2) 	a	
6. Whether the amount of income mentioned in item 5 above has been invested or deposited in the manner laid down in Section 11(2) (b) ? If so, the details thereof	NI	
7. Whether any part of the income in respect of which an option was exercised under clause (2) of the explanation to Section 11(1) in any earlier year is deemed to be income of the previous year under Section 11(1B)? If so, the details thereof	nic	
Whether during the previous year, any part of income accumulated or set apart for specified purposes under Section 11 (2) in any earlier year	die	
(a) has been applied for purposes other than charitable or religious purposes or has ceased to be accumulated or set apart for application thereto, or	nce	
(b) has ceased to remain invested inany security referced to in Section 11(2)(b) (i) or deposited in any acount referred to in section 11(2)(B)(ii) or section 11 (2)(9B) (iii), or	~'\	
(c) has not been utilised for purposes for which it was accumulated or set apart during the period for which it was to be accumulated or set apart, or in the year immediately following the expiry thereof?	~~ .	
f so, details there of		

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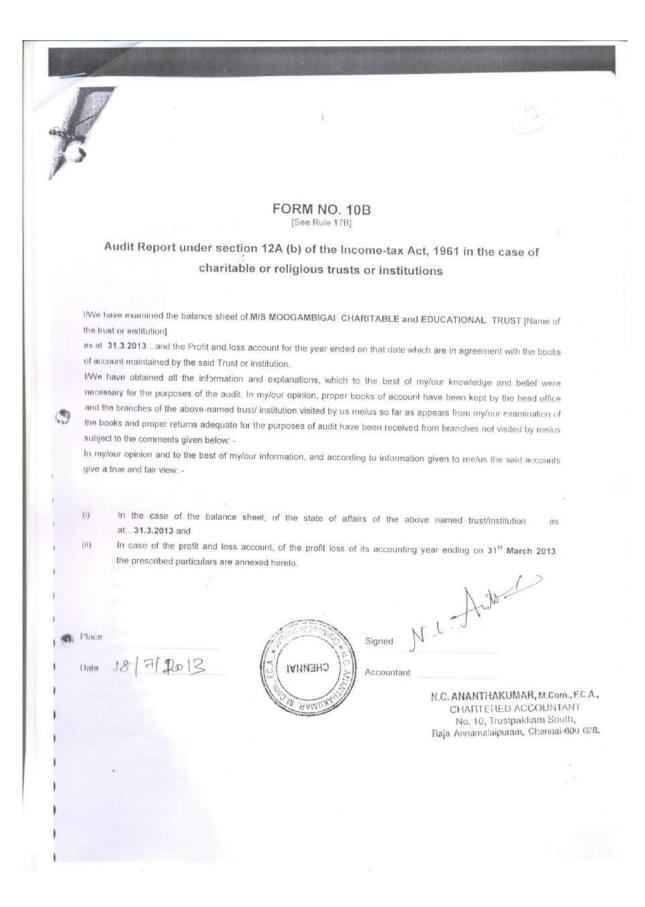


ANNEXU	RE	
STATEMENT OF PA		
I. APPLICATION OF INCOME FOR CHARIT	ADJECT	
1. Amount of income of the previous was audiod.	ABLE OR RELIGIOUS PURPOSES :	
year	RJ-976365541/_	
2. Whether the trust/institution * has exercised the option under clause (2) of the explanation to Section 11(1)? If so, the details of the amount of income deemed to have been applied to charitable or religious purposes in India during the previous year	NI	
3. Amount of income accumulated or set apart * for application to charitable or religious purposes, to the extent it does not exceed 25 per cent of the income derived from property held under trust wholly * only for such purposes	~~	
 Amount of income eligible for exemption under section 11(1) (c) (Give details) 	~~~	
 Amount of income, in addition to the amount referred to in item 3 above, accumulated or set apart for specified purposes under Section 11 (2) 	α,~	
 Whether the amount of income mentioned in item 5 above has been invested or deposited in the manner laid down in Section 11(2) (b) ? If so, the details thereof 	NV	
7. Whether any part of the income in respect of which an option was exercised under clause (2) of the explanation to Section 11(1) in any earlier year is deemed to be income of the previous year under Section 11(1B)? If so, the details thereof	a.c	
Whether during the previous year, any part of income accumulated or set apart for specified purposes under Section 11 (2) in any earlier year	die	
(a) has been applied for purposes other than charitable or religious purposes or has ceased to be accumulated or set apart for application thereto, or	ucc	
(b) has ceased to remain invested inany security referced to in Section 11(2)(b) (i) or deposited in any acount referred to in section 11(2)(B)(ii) or section 11 (2)(9B) (iii), or	~'\	
(c) has not been utilised for purposes for which it was accumulated or set apart during the period for which it was to be accumulated or set apart, or in the year immediately following the expiry thereof? If so, details there of	N~	



II. APPLICATION OR USE OF INCOME OR PROPERT REFERRED TO IN SECTION	
1. Whether any part of the income or property of the *trust/institution was lent, or continues to be lent in the previous year to any person referred to in Section 13(3) (hereinafter referred to in this Annexure as such person)? If so, give details of the amount, rate of interest charged and the nature of security, if any	~~~
2. Whether any land, building or other property of the *trust/institution was made, or continued to be made, available for the use of any such person during the previous year? If so, give details of the property and the amount of rent or compensation charged, if any	N
3. Whether any payment was made to any such person during the previous year by way of salary, allowance or otherwise? If so, give details Output Description:	n·c
Whether the services of the *trust/institution were made available to any such person during the previous year ? If so, give details thereof together with remuneration or compensation received, if any	~ 1'-
 Whether any share, security, or other property was purchased by or on behalf of the *trust/institution during the previous year from any such person? If so, give details thereof together with the consideration paid 	~ ~
Whether any share, security or other property was sold by or on behalf of the *trust/institution during the previous year to any such person? If so, give details thereof together with the consideration received	N - C
7. Whether any income or property of the *trust/institution was diverted during the previous year in favour of any such person ? If so, give details thereof together with the amount of income or value of property so diverted	~~~
8. Whether the income or property of the *trust/institution was used or applied during the previous year for the benefit of any such person in any other manner? If so, give details *	NIC





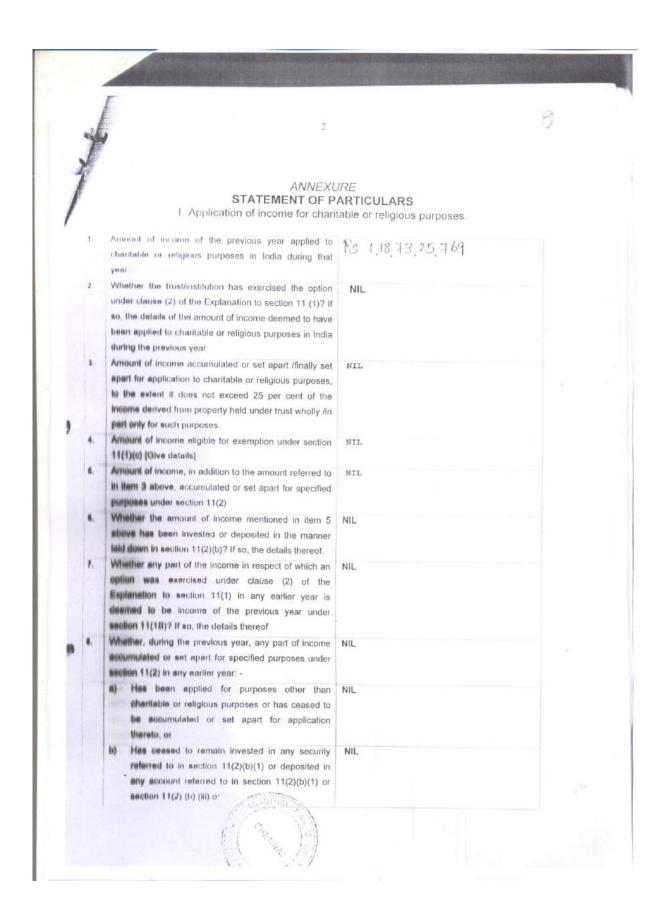


	1	 c) Has not been utilized for purposes for which it was accumulated or set apart during the period f 	ror .
/		which it was to be accumulated or set apart, or the year immediately following the expiry thereof If so, the details thereof	in
,	11	I. Application or use of income or property for the I	benefit of persons referred to in section 13 [3]
		Whether any part of the income or property of the trust/institution was lent, or continues to in section 13(3 [hereinafter referred to in this Annexure as such person]? If so, give details of the amount, rate or interest charged and the nature of security, if any	e NIL
9		Whether any land, building or other property of the trust/institution was made, or continued to be made, available for the use of any such person during the previous year? If so, give details of the property and the amount of rent or compensation charged, if any.	
	4	during the previous year by way of salary allowance or otherwise? If so, give details.	NIL
	0	Whether the services of the trust/institution were made available to any such person during the previous year? If so, give details thereof together with remuneration or compensation received, if any.	NIL
	G	Whether any share, security, or other property was purchased by or on behalf of the trust/institution during the previous year from any such person? If so, give details thereof together with the consideration paid	.NIL
6	,	Whether any share, security, or other property was sold by or on behalf of the trust/institution during the previous year to any such person? If so, the details thereof together with the consideration received.	NIL
		Whether any income or property of the trust/institution was diverted during the previous year in favour of any such person? If so, give details thereof together with the amount of income or value of property so diverted.	NIL
	0.	Whether the income or property of the trust/institution was used or applied during the previous year for the benefit of any such person in any other manner? If so, give details.	NIL
		· MANIMAN	



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Α.	7						
	fill. In	vestment held at a	ny time during the	previous year(s)	in concerns in w	hich persons referred	
1	to in s	ection 13(3) have a	a substantial intere	st.	W SOMECHIS III W	mich persons referred	
1							
1			Where the concern			Whether the	
1	SI.	Name and address of the concern	is a company No	Nominal value of	Income from the	amount in Col. 4 exceeded 5% of	
	140	of the concern	and class of shares	the investment	investment	the capital of the concern during	
			held			the previous year- say. Yes/No	
	1	2	3	4	5	6	
			NIL				
	Total						
		Chennai			N.C. AN	Signed Authorities Accountant ANTHAKUMAR, M.Com., F.	,C.A
					N.C. AN	Accountant	,C.A.
		CHONAN THAT			N.C. AN	ANTHAKUMAR, M.Com., F. ARTERED ACCOUNTANT 10. Trustpakkam South.	,C.A.
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FORM NO. 10BB Audit report under section 10(23C) of the Income-tax Act, 1961, in the case of any fund or trust or institution or any university or other educational institution or any hospital or other medical institution referred to in sub-clause (iv) or sub-clause (v) or sub-clause (vii) or sub-clause (via) of section 10(23C). (i) I have examined the Balance Short as at 18/09/2014 and the Income and Expenditure or Profit and Loss Account for the year ended on that date attached herewith of MOOGAMBIGAL CHARITABLE AND EDUCATIONAL TRUST . AAATMI 102H (name and PAN of fund or trust or institution or any university or other educational institution or any hospital or other medical institution). (ii) I certify that the Balance Sheet and the Income and Expenditure Account or Profit and Loss Account are in agreement with the books of account maintained by the head office at BANGALORE and NIL branches. (a) I have obtained all the information and explanations which to the best of my knowledge and belief were necessary for (b) In my opinion, proper books of account have been kept by the head office and branches of the above-named fund, or trust, or institution or any university or other educational institution or any hospital or other medical institution so far as appears from my examination of the books of account. (c) In my opinion and to the best of my information and according to the information given to me, the said accounts read with notes thereon, if any, give a true and fair view (1) In the case of the Balance Sheet, of the state of affairs of the above-named fund, or trust, or institution or any university or other educational institution or any hospital or other medical institution as at 18/09/2014 and (2) In the case of Income and Expenditure Account or Profit and Loss Account, surplus or deficit or profit or loss for the year ended on that date. The prescribed particulars are annexed herewith: Place CHENNAI 18/09/2014 Date N.C.ANANTHAKUMAR Membership No: 023667 FRN (Firm Registration Number) Address 10, TRUSTPAKKAM SOUTH STR EET, R.A.PURAM, MANDAVELI, CHENNAI 600 028 Comments Statement of particulars PART MOOGAMBIGAT CHARITABLE AND EDUCATIONAL Name of the fund or trust or institution or any university or other educational institution or any hospital or other TRUST medical institution. Address Flat/ Door/ Block No. RRMBA CAMPUS Name of premises/ Building/ Village Road/ Street /Post Office RAMOHALLI CROSS Area/ Locality KUMBALAGODU Town/ City / District BANGALORE State KARNATAKA Pin Code 506074 3. Permanent Account Number AAATM1102H

2014-15

2013-07-11

Date of notification/approval

Number and date of notification/approval of the fund or trust or institution or any university or other educational

4. Assessment Year

1-1359990619

seeking exemption.

Number of notification /approval

Sub-clause of section 10(23C) under which the fund or trust or institution or any university or other educational institution or any hospital or other medical institution is

institution or any hospital or other medical institution.

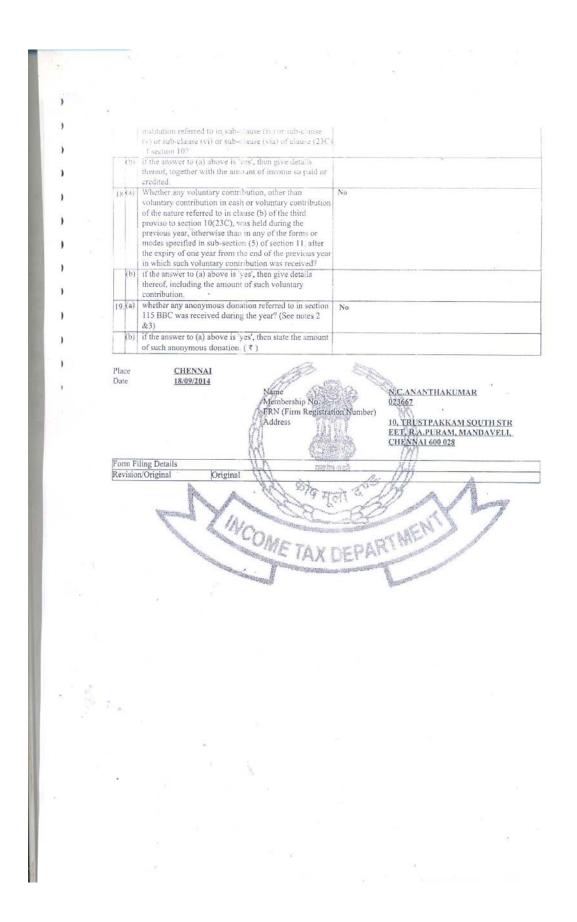
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1	PPI	.IC	ATION OF INCOME FOR CHARITABLE OR RELIGIOUS OR EDU	CATIONAL OR PHILANTHROPIC
		7	h re of charitable, religious, educational, philanthropic CHARITAI	LE AND EDUCATIONAL ACTIVITY
			activity [as referred to in sub-clauses (iv),(v),(vi) or (via) of	SO IND EDUCATIONAL ACTIVITY
			section 10(23C)]	
		8	Total income of the previous year of the fund or trust or 1004788255	
			institution or any university or other educational institution	
			or any hospital or other medical institution (₹)	
		75	A CONTRACTOR OF THE CONTRACTOR	
		У.	Amount of income of the previous year applied during the 972593479	
			year wholly and exclusively to the objects for which it is	
			established (₹)	
		10.	Amount of income of the previous year accumulated for 150718238	
			application, wholly and exclusively, to the objects for	4
			which it is established, to the extent it does not exceed 15%	
	1	-	of income of that year. (₹)	
		11.	Amount of income, exceeding 15% of income of the year, 0	
		- 1	accumulated in accordance with clause (a) of the third	
			proviso to section 10(23C). (₹)	
		12.	(a) Whether, during the previous year, any part of the No	
			income, not exceeding 15% of income accumulated in	
			any earlier year, was applied for purposes other than to	
			the objects for which it is established or has ceased to	
			be accumulated for application thereto?	
		k	(b) If the answer to (a) above is 'yes', then give details of	
			income so applied or ceased to be so accumulated	No.
	1	3 ((a) Whether, during the previous year, any part of the Na	467
	- 1	3.0	income of any earlier year exceeding 15% of the	7/1
			income, that was accumulated in accordance with	1817
	- 1		clause (a) of the third proviso to section 10(23C) in	(87)
			that year, was applied for purposes other than to the	10.00
			objects for which it is established or has ceased to be	177
			accumulated for application thereto?	A.K
		h	h) If the appropriate (a) h	(7))
	- 1	1	b) If the answer to (a) above is 'yes' then give details of	XX
	-	. 1	income so applied or ceased to be so accumulated	1/17
	1	4.(8		PLF AN
			income of any earlier year exceeding 15% of the	-77 m 1 1 1 .
			income, that was accumulated in accordance with	The same of the sa
			clause (a) of the third proviso to section 10(23C) in	A L
			that year, was not utilised for purposes for which it was	CN A
			accumulated during the period for which it was to be	the State of the s
		1	accumulated?	A S. R. WOODS
		KE	b) If the answer to (a) above is 'yes', then give details	and the same of th
			thereof, together with amount of income not so utilised.	No. of Case and Case
			THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS	D. maria and a second
			- Angle	State .
			≥ restriction	
			PART C -	
	T.	(a	OTHER INFORMATION	
	13	- Ad		
			contributions referred to in clause (b) of the third	
	1		proviso to section 10(23C), were invested or deposited	
		1	for any period during the previous year, otherwise than	
	1		in the forms and modes specified in sub-section (5) of	
8.			section FL.	
2		(b)		
	1.6	In	relation to any income being profits and gains of business, -	
		(a)		
		1	of the objectives of the fund or trust or institution or	
			university or other educational institution or hospital or	•
			other medical institution?	
	2 3	(b)	No whether are to to to	
	1	(0)	whether separate books of account were maintained in Not Applicable	
	-	(e)	respect of such business?	
		4.03		
		(c)	A CONTROL OF THE PARTY OF THE P	
			the amount of such income. (?)	
		(a)	the amount of such income. (₹)	

or institution registered under section 12AA or to any fund or trust or institution or any university or other educational institution or any hospital or other medical





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- 6.5 Internal Quality Assurance System (IQAS)
- **6.5.1 Internal Quality Assurance Cell (IQAC)**
- a. Has the institution established an Internal Quality Assurance Cell (IQAC)?
- .6 If _yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

Yes,

It has contributed in institutionalizing the quality assurance processes as follows:

- 1. Routine Meetings of IQAC (minimum of two per academic year) is conducted with fixed Agenda depending on the feedback received from various stakeholders during the past semesters.
- 2. Discussions are held in a detailed manner by taking into consideration suggestions and advise of all the members of IQAC.
- 3. Conclusions drawn out of these meeting are placed before the Institution Governing Council for its deliberation on the same and final approval.
- 4. Most of the IQAC decisions are almost 90% is approved by the Management during Governing Council Meeting.
- 5. The External Members are senior academicians of the level of former Vice Chancellors and they have been contributed significantly in overall Policy making of the academic development of the Institution.
- 6. Past / Present students as the major stakeholders in overall decision making and policy framing of the Institution. Their feedback is very valuable and hence given immediate weighable during the IQAC deliberation.
- 7. Senior Staff members of each department are members of IQAC and therefore, they represent each and every faculty in their respective departments. Preparation for IQAC meeting actually starts with a discussion amongst faculty of the department and outcomes of these meetings is brought out during the IQAC meeting by the Senior faculty representative.
- b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

 All the decisions are taken in the Meeting are presented to the governing council by the Principal and after thorough review the same has been implemented.

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c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes. Dr Balakrishna. (External member) participates during IQAC meeting and contributes in Academic, administration and human resource activities.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The students give input to the Chief Placement Officer and necessary mock training and new methods of improving the employability have been brought in. Alumni play a major role to ensure that the students of the college are well placed in the reputed organization and some of the entrepreneur absorbs the students in their own concern.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

IQAC is carried out by the members drawn from all the departments. Professors are generally assigned the job of lead auditor and the Associate Professors, Assistant Professors form part of the inspection committee.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If _yes', give details on its operationalisation.

The institution has a strong integrated framework for its academic and administrative quality maintenance. The student union, the teacher_s unit the office staff are all well communicated for a every policy making and hence finally placed in the college Governing Council for giving the final shape of all plans and programs.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If _yes', give details enumerating its impact.

Yes. The institution provides training to our staff for effective implementation of the Quality assurance procedures. There was a workshop conducted for the staff on quality assurance by an expert from outside to brief the teaching and office staff about the quality assurance procedure. This has greatly helped the staff in understanding and maintaining documents and for evolving systems and procedures for effective and efficient functioning.

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6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If _yes', how are the outcomes used to improve the institutional activities?

The academic audit comes out with the pros and cons of the teaching methodology as well as means to overcome the same. All the junior faculty are randomly and continuously monitored in this regard. Senior Professors from the department also are roped in to effectively Implement the same.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

Every six months an audit is carried either by internal or external auditors. The observation, opportunity for improvement and non-conformity cited by the auditors are rectified at the earliest. It is pertinent to mention no serious non conformity has been cited over the last few years.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

For continuous review of teaching learning process in the college, there are so many systems where all academic matters are discussed elaborately. It includes academic council, all Heads of the departments, examination committee, etc. and above all the college governing council. Continuous assessment tests, assignments, parent- teacher meeting, class counselling, class committee meeting are the measures to review the teaching learning process.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The Institution communicates its quality assurance and performance through the prospectus of the college, college magazine, college news letter, college website, notice boards and digital displays.

Any other relevant information regarding Governance Leadership and Management which the college would like to include.

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Criterion - VII: Innovations and
Best Practices

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Criterion - VII: Innovations and Best Practices

7.1Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes. Eco club of the College consists of Students of various disciplines and faculty of various departments. A green audit is conducted annually with the assistance of faculties and students. Being an academic institution, the scope of Green Audit is limited to Green coverage in campus and tree census.

Programs conducted during Odd/Even Semester under ECO CLUB

1. Green Audit

The green ambience of the college is largely due to tree plantation. Green audit program will be conducted every year in the month of July, all the departments take the responsibility in collective manner.

2. Plantation Drive

Every year on 5th June, —VanaMahotsava Day" is conducted in the institution. Plantation activities are taken up to bring awareness and to increase the green coverage area in and around the campus.

3. Talk on —Idustrial Effluent Treatment".

An awareness program was conducted by the Aeronautical Department on 18th August 2015, on the topic of **Industrial Effluent Treatment**" by Prof. M S Shivakumar, Department of Basic Science.

4. — Swacha Bharath Abhiyan Activity"

Swacha Bharath Abhiyan is an activity organized by the college on 3rd October 2015. It is a program inspired by the honorable Prime Minister Shri Narendra Modi and all the staffs and students were participated and made the mission successful in the whole campus of Raja Rajeshwari group of institutions.

5. Technical Talk on — Renewable Energy Resources".

A technical talk on the topic of —**Renwable Energy Resources**" was organized by Electrical and Electronics Engineering Department on August 30th 2015. The lecture was given by Dr. Prem Kumar, Prof. & PG Coordinator, and Civil Engineering Department. The program was meant for all students and staff of EEE Department.

6. Talk on —Solid Wast Management".

A program on —Soll Waste Management —organizedby Civil Engineering Department on

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ACS College of Engineering

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12th September 2015, all the staff and students of the departments participated in the seminar which was given by Dr. M. Eswaramoorthy, Prof & Head, Dept. of Mechanical Engineering.

7. Guest Lecture on —Bio DieseDevelopment and Characterization".

It is an enrichment program was organized by Mechanical Department on 01/10/2015. The talk was given by the Dr. Mallikarjunayya C Math, Assoc. Prof, Dept. of Thermal Power Engineering, VTU PG Center Mysore, spoke about the importance and bio gas energy generation from the bio wastes, the program inspired and motivated the students to undergo projects and innovations on the generation of energy from bio gas, and all the staffs and students participated and made the program successful.

8. Debate on —Impactof vehicular emission on environment, its causes and remedies".

This program was organized by Mechanical and Aeronautical Departments on the eve of Chairman's birthday. The students of various departments participated showcased their oratory skills and knowledge in the area of vehicular emission and impact on environment.

9. Awareness program on E-Waste deposal and management.

The program was organized by Computer Science Department on 18th Nov 2015. Dr. C S Pillai, HOD, CSE Dept spoke on the event highlighted the importance of E-waste management. All the staff and students participated and made the program a grand success.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

* Energy Conservation

- ✓ Bring awareness among students/ staff and faculty to switch off lights /fans when not in use.
- ✓ Building structures are designed with high natural lighting and ventilation to minimize lighting loads
- ✓ Centralized section-wise UPS systems for computers.
- ✓ As far as possible information is passed on electronically using websites, social media etc. without taking printouts.
- ✓ Staff/ Students are encouraged not to use motor vehicles inside campus and to use of bicycles or preferably walk within the campus.
- ✓ Lifts are used sparingly. Only the aged and people with disability are encouraged to make

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use of lifts.

✓ Use of air conditioning is very minimal as to not impact the environment.

* Use of renewable energy

- ✓ Solar Water Heaters have been installed in the hostels.
- ✓ Measures are taken to also harvest wind energy and solar power for the college building.

* Water harvesting

- ✓ Rain-water harvesting is done and collection is also done in a tank.
- ✓ Sewage soak pit which collects the waste water has been installed.
- ✓ Water treatment using Reverse Osmosis is also installed.

* Check dam construction

✓ No necessity of Check dam. Alternatively Open flow channels and drain pipes have been installed in the campus to collect the rainwater in harvesting tank.

* Efforts for Carbon neutrality

- ✓ College provides bus facilities to the faculty members, students and non teaching staff from all surrounding areas in Bangalore with an aim to avoid the use of individual vehicles and thus reducing the carbon emission.
- ✓ Quarters for the faculty members and separate hostels for Girls and Boys is provided inside the campus which also minimizes the usage of automobiles.
- ✓ Saplings are planted every year in various locations to reduce the carbon load.
- ✓ Usage of plastics is strictly discouraged.
- ✓ Waste segregation is done at source; with separate bins for dry and wet wastes.
- ✓ Papers are sent for recycling.
- ✓ Measures are taken to switch over to LED's.
- ✓ Efforts are on to upgrade college buses to BS IV norms as per National Pollution Control Board.

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* Plantation

- ✓ Plantation drives are conducted periodically.
- ✓ Faculties are encouraged to plant one sapling on their Birthday every year.
- ✓ College organizes programs through ECO club every year to inculcate awareness on green environment.

* Hazardous waste management

✓ The College does not generate any hazardous or radioactive wastes.

* E-waste management

✓ The College does not generate any e-waste. Computers, UPS and Printing systems are sent to scrap dealers for safe disposal.

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7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

- ✓ Freshers are taken round in batches to the department Labs/Workshops library and main library to show the facilities available and an orientation program is organized.
- ✓ Creative Learning Methodology (CLM), a student-centered approach, has been introduced to engage every student in self-learning, peer learning, group learning, Layer learning and development of presentation skills. Also animated videos are used for enhancing the learning process.
- ✓ For development of creativeness in students' civil department conducted a model making activity using light weight material and card boards.
- ✓ Aeronautical department inaugurated —Aeromodeling" club to understand the basic behaviour of aircrafts.
- ✓ To provide awareness on modern technologies in engineering industry, various technical talks with resource persons from the industry are invited.

7.3 Best Practices

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

✓ Proctorial System

The proctorial system assigns a faculty member to every student; the faculty member is called the proctor for the student. The proctor plays the role of a personal mentor for the student in all matters.

✓ Quality Teachers and Experimental Learning

The quality of the teacher is measured by assessment tests, result analysis and student feedback at the end of every semester. Self-appraisal from every staffs of all the departments will be asked by the management very year, and also the objective is to enhance participation and learning capability of students. This also leads to inculcation of research and innovation thinking.

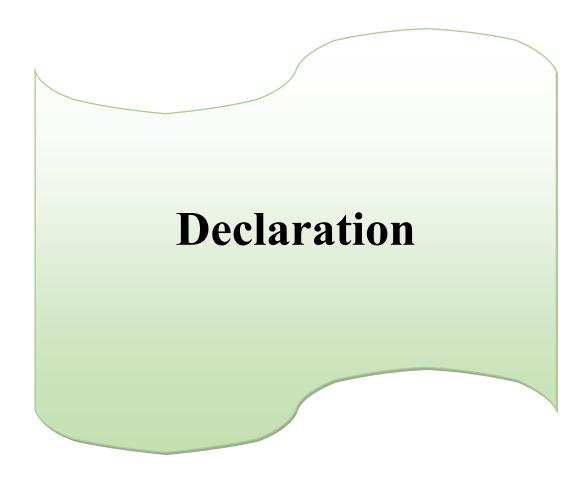
Objectives of the Best Practices

- ✓ To identify the weaker students.
- ✓ To assess the overall development of the students.



- ✓ To enhance the leadership quality of the student.
- ✓ To make the students to understand the subject.
- ✓ To grow the ability of the students by providing them pre lab and post lab methods.
- ✓ To enhance academic study and student competency development through curriculumspecific applied learning experiences for the students.
- ✓ Making students to present papers in conferences for motivating them in the research field.
- ✓ Knowledge and skill acquisition.
- ✓ To gain new information regarding the company industry and duties through industrial visits, technical symposium.
- ✓ To bring forth the team spirits and leadership qualities of the students and broaden their social outlook that will help them work for the welfare of the community.
- ✓ To restore gender equity and make available equal opportunities to emerge full-fledged and take up new ventures.





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6. Declaration by the Head of the Institution

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the

institution with seal:

Place: Bengaluru

Date: 25-01-2016

Principal

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

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Certificate of Compliance

(Affiliated/Constituent/ Autonomous Colleges and Recognized Institutions)

This is to certify that A.C.S. College of Engineering, Kambipura, Mysuru Road, Bengaluru - 560074, fulfils all norms

- 1. Stipulated by the affiliating University and/or
- 2. Regulatory Council/Body [such as AICTE, and
- 3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: 25-01-2016 Place: Bengaluru

Principal/Head of the Institution (Name and Signature with Office seal) Principal

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