ACHARYA INSTITUTE OF TECHNOLOGY

Affiliated to Visvesvaraya Technological University, Belgavi. Govt. of Karnataka.
Approved by AICTE, New Delhi. Accredited by NBA, AICTE, New Delhi.

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.
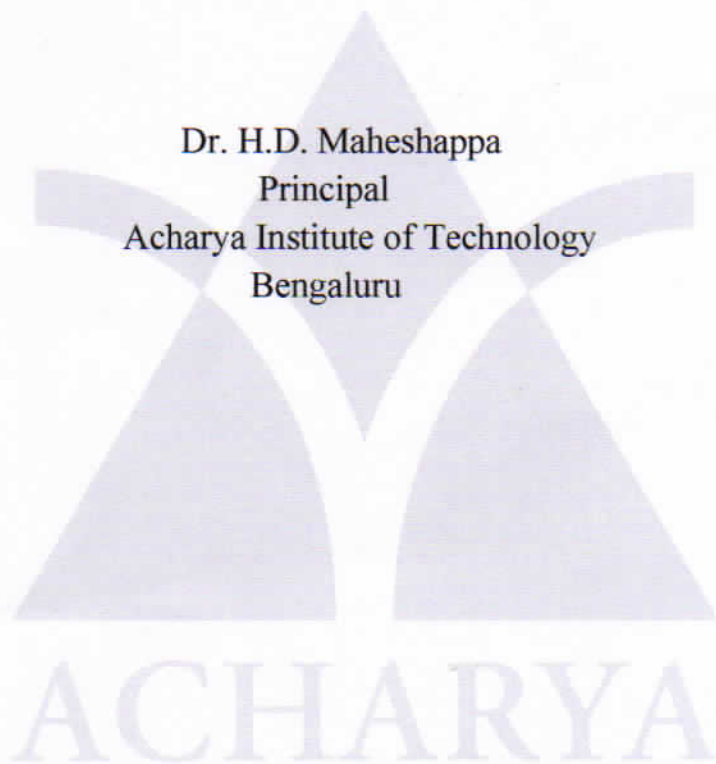
The SSR is prepared by the institution after internal discussions and no part thereof has been out sourced.

I am aware that the Peer team will validate the information provided in the SSR during the peer team visit.

Place: Bengaluru
Date: 31/3/2017

Dr. H.D. Maheshappa
Principal
Acharya Institute of Technology
Bengaluru

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Statement of Compliance

This is to certify that Acharya Institute of Technology fulfills all norms.

1. Stipulated by the affiliated University and/or
2. Regulatory Council/Body(such as UGC, AICTE, etc)
3. The affiliation/recognition is conditional, and 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 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the undertaking submitted by the institution is found to be false, then the accreditation given by NAAC is liable to be withdrawn.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.

Place: Bengaluru
Date : 31/3/2017

Dr. H. D. MAHESHAPPA
Principal
Acharya Institute of Technology
Bengaluru

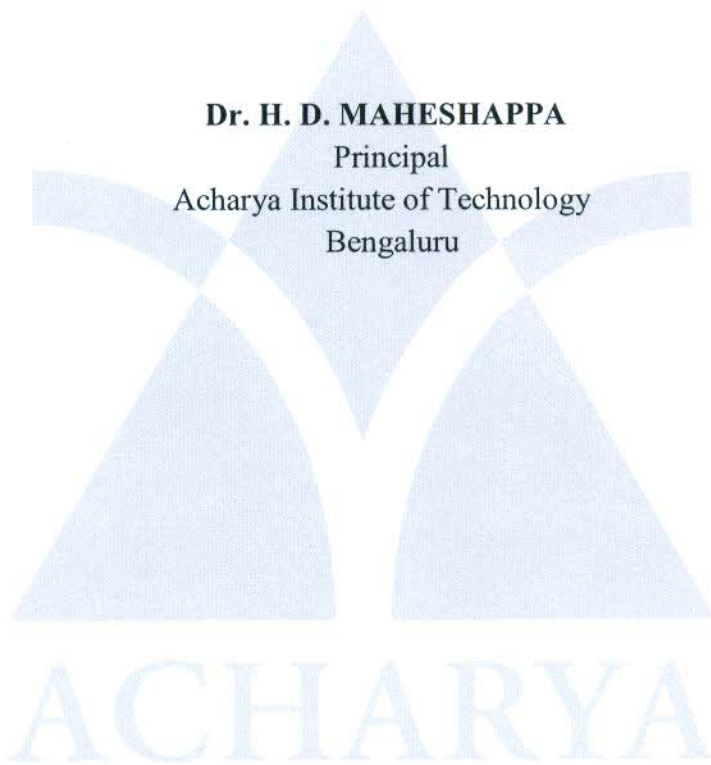Acharya Dr. Sarvepalli Radhakrishnan Road, Acharya P.O., Bangalore 560 107, Karnataka, India • www.acharya.ac.in/ait
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1. **Name of the department:** Aeronautical Engineering

2. **Year of Establishment:** 2011

3. **Names of Programmes/Courses offered (UG, PG, M.Phil, Ph.D., Integrated Masters; Integrated Ph.D.,etc.)**

UG: Aeronautical Engineering	PG:Nil	Ph.D.:Nil

4. **Names of Interdisciplinary courses and the departments/units involved:** Nil

5. **Annual/semester/Choice Based Credit System (programme wise):**

    BE I-IV semester CBCS
    V-VIIIsemester Semester scheme

6. **Participation of the department in the courses offered by other departments:** Nil

7. **Courses in collaboration with other universities, industries, foreign institutions, etc**.: Nil

8. **Details of courses/programmes discontinued (if any) with reasons:** Nil

9. **Number of teaching posts**

	Sanctioned	Filled
Professors	01	01
Associate Professors	02	01
Asst. Professors	06	09

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil.etc.,)**

Name	Qualification	Designation	Specialization	Industry	other than AIT	AIT	Total	No. of Ph.D.Students Guided for theLast 4 years
					No.ofYears of Experience			
						Teaching		
Sarat Kumar Maharana	Ph. D	Dean and Professor, HOD	Aerospace Engineering	18	6	4	28	8
MallikarjunVaggar	Ph. D	Associate Professor	Aircraft Design Optimization	24	13	0.5	37.5	
Swetha S	M Tech	APG - III	Thermal power Engineering		2	5	7	
Mahanthayya Hiremath	M Tech	APG - III	Aeronautical Engineering	3	1	3	7	
Venugopal MM	M Tech	APG - III	Aeronautical Engineering		6	2.5	8.5	
Somashekar	M Tech	APG - III	Aeronautical Engineering	2	2	3	7	
Steffi Thangachan	M E	APG - III	Avionics			2.5	2.5	
Roohi	M Tech	APG - III	Aerospace Propulsion		2	2	4	
Parameshwar Banakar	M Tech	APG - III	Aerospace Propulsion Technology			4.5	4.5	
Shabeeb N P	M Tech	APG - III	Aerospace Engineering				1	
Varsha N	M Tech	APG - III	Aircraft Design					

11. **List of senior visiting faculty:**   Nil.

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:**   Nil

13. **Student-Teacher Ratio (programme wise):**   16:1

14. **Number of academic support staff (technical) and administrative staff, sanctioned and filled**

Category	Sanctioned	Filled
Technical staff	2	1
Junior office Assistant	1	0

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

Qualification	Number of faculty
DSc/D Litt	0
Ph.D	2
M.Phil	0
PG	9

16. **Number of faculty with ongoing projects from a)National b)Internationalfunding agencies and grants received:** Nil

17. **Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received:** Nil

18. **Research Centre/facility recognized by the University:** Nil

19. **Publications:**

     a) Publication per faculty

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. **Areas of consultancy and income generated**

Name of Faculty	Area	Income generated
S K Maharana	Aerodynamics	8050/-
Somashekar V		

21. Faculty as members in a)National Committees b)International Committees c)Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
S K Maharana		From 2010 onwards	MSRUAS		NMITE
			ACE, Hosur		DSCE

22. Student projects

   a) **Percentage of students who have done in-house projects including interdepartmental/programme:** 65%

   b) **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:** 35%

		Percentage
No of Students	57	100
No of in-house projects	9	65
No of Inter dept projects		
No of Projects in R and D Labs	2	14
No of Projects in Industry	3	21

23. Awards/Recognitions received by faculty and students

Name	Award/Recognition	Agency	Year
Harsha M V, Anil Kumar, Lingalasurrena Reddy, Vinay Kumar Reddy	First and third place in the Hyo Rocketry competition	TECHNOZION NIT Warangal	2015
Divya C Savant, Neka K C, Honnashree P	Second and third place in RC flying competition		
AlvinaNirmalraj, Girish R ShanboughandChanamani Singh	Second place	State level Project competition at New Horizon College	2015
Sharanabasappa	Best innovative idea	Idea impact	2015
BanuPrakash	Recognition	Karnataka Motor Sports Club	2015
Vikas K, Maria Nicholas, Pradeep, Santhosh Prof. Somashekar V	Recognition	INGENIUM 2015	2015

Name	Award/Recognition	Agency	Year
Mohammed Nabeeel, Naveen Kumar S, Sukesh B S, Nagaraj Prof. Swetha S	Recognition	INGENIUM 2015	2015
HariBabu S K	3rd Rank	VTU	2015
AbhishekDigambarJain	5th Rank	VTU	2015
Harsha.M.V, Y.Vinaykumarreddy, Anil kumar.M.V	1st Place	Boeing National Aero modeling Champions of South zone, IIT Maas.	2016
L.Surenareddy, Honnashree.P, Neha.K.C, Divya C Savanth	2nd Place	Boeing National Aero modeling Champions of South zone, IIT Maas.	2016
Abhishek M B	1st Place	SRISTHI 2016'	2016

24.   List of eminent academicians and scientists/visitors to the department

Name	Designation	Date of visit	Activity
K Ramachana	Former Director, GTRE and Director of NF	01/03/2017	Session with Aero-Industry Leaders
ShekharShrivastava	General Manager (Aerospace Division), HAL	01/03/2017	Session with Aero-Industry Leaders
Pramoda A	Program Manager, Oil and Gas Unit, GE Aviation, JFWTC	01/03/2017	Session with Aero-Industry Leaders
SharatkumarVariyar	Senior Manager, Technical Training, UTC Aerospace Systems	01/03/2017	Session with Aero-Industry Leaders
Nagendhran	Director, Aerospace Throttle Systems,	01/03/2017	Session with Aero-Industry Leaders
Madhukar M Rao	Technical talk on CFD and its applications	03/08/2016	ACRi, Bangalore

Name	Designation	Date of visit	Activity
K.V.Srinivasan	Emeritus Scientist, ADE, DO	31/03/ 2016	Avionics for civil and combat aircraft and Fly by wire System
NandiniRao	Independent Consultant	31/03/2016	Artistic Director of Yours Truly Theatre- Graduate Attributes
Pradeep K. Sahoo	Structural Integrity Group of National Aerospace Labs, Bangalore.	5/5/ 2015	Structural Analysis
VivekSanghi	IIT, Mumbai	5/5/2015	Structural Analysis

25. Seminars/Conferences/Workshops organized and the source of funding

a) National

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
Two day All India Seminar On Methods Of Computations In Fluid Flow, Heat And Mass Transfer Problems	14/03/2017 to 15/03/2017	Institute of Engineers (India), Innovent Technologies, CadcentrePeenya, Ind Lab Engineers	47500		60
VTU initiated one day workshop on "Computer Aided Aircraft awing".	27/02/ 2017	VTU	16000		16
Three-Day Workshop on Computational Modeling and Simulation In Engineering Using AnsysandMatlab Tools	3/8/2015 to 5/8/2015	Self	Registration Fee from outside participants 40000/-		55

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
Avionics System For Civil and Combat Aircraft and Fly By Wire System And Graduate Attributes	31/03/ 2016	AIT		3000	120
Two-Day Workshop On Computational Mechanics	28/01/2016 to 29/01/2016	Self	Registration Fee from outside participants 30000/-		40

b) International: Nil

26.   Student profile programme/course wise

Name of the Program	Year	Applications received	Selected
BE(Aeronautical Engineering)	2013-14	54	30
	2014-15	35	27
	2015-16	30	16
	2016-17	42	20

27.   Diversity of Students

Name of theCourse	%of students from the same state	% of students from other States	% of students from abroad
Aeronautical Engineering	64	30	6

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services, etc.?**

Competitive Examinations	Year	No	Year	No	Year	No	Total
GATE	2015	4					4
Civil services							
Defense services							

29. **Student progression**

Student progression	Against %enrolled
UG to PG	05
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed •Campus Selection •Other than Campus Recruitment	15 55
Entrepreneurship/Self-employment	02

Progression in the Department (Based on First year admission)

No/year	Intake sanctioned	Year1	Year2	Year3	Year4	% Year 2	% Year3	% Year4
2012-13	60	61	56	55	55	92	98	100
2013-14	60	67	58	53	52	87	95	98
2014-15	60	67	63	60		94	95	
2015-16	60	63	63			100		
2016-17	60	62						

30. **Details of Infrastructural facilities**
   a) **Library:** Yes

b) **Internet facilities for Staff and Students:**

1. 120Mbps – Railtel
2. 10Mbps – BSNL
3. Campus is enabled with Wi-Fi facility

c) **Class rooms with ICT facility:** Nil

d) **Laboratories:**
1. Aerodynamic laboratory
2. Structure laboratory
3. Propulsion laboratory
4. CAAD laboratory (Shared)
5. Design, Modeling and Analysis laboratory(Shared)

31. **Number of students receiving financial assistance from College, University, Government or other agencies**

Year	No of Students	College	University	Social welfare	Merit	Other
2015-16	10	2	VTU	SC		SC
2014-15	4	3	VTU	ST		ST
2013-14	47	1	VTU	OBC Category Scholarship		OBC
2012-13	4		VTU	KMDC Loan		KMDC

32. **Details on student enrichment programmes (Special lectures/Workshops/ Seminar) with external experts**

Date	Activity		No of participants
10/03/2017	Incubation and NCCRD lab	IIT Maas	45
23/09/2016	GMR Aero Technic Ltd and Air Traffic Control division of Rajiv Gandhi	International Airport, Hyderabad	50
17/09/ 2016	HAL Aerospace Museum	Bangalore	50

33. Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	Yes	Yes	Yes	Yes	Yes	Field Visit

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Date	Activity	No of Participants
11 /09/ 2015 ANTARIKSH	Education iveANTARIKSH in Jindal Jubilee Government High School,Abbigere, Bangalore. Understand the concepts behind glider, ornithopter, paper planes, R.C. Airplane and hyo rocketry.	40

35. SWOC analysis of the Department and Future plans

Strengths
1. Team work and its expertise/subject specialization
2. Diversity among the faculty
3. Propensity towards Research
4. Application of learning (Aero-modeling)

Weakness
1. Senior faculty are not available.
2. Infrastructure to be developed.
3. Challenges posed by the industry in attracting the faculty for employment
4. Retention of the talents.

Opportunity
1. MoUs for Academic exchange and research collaboration with National and International institutions
2. Aerospace graduates shall find opportunity in MRO, R and D laboratories, analysis and defense sector.
3. Establishing the research facilities in the area like UAU, MAV, Materials, future design of Aircraft, developing energy efficient engines, Bring NANO technology.

Challenges

1. Providing opportunities in the relevant industry for research and training.
2. Attracting experienced staff from the academia and the industry.
3. To meet the expectations of the faculty in terms of career, compensation, benefits, Infrastructural support etc.
4. Connectivity and accessibility with the industries and service sectors

Future Plans

1. It will be Centre of excellence (Unmanned Aerial Vehicles)study and research
2. It will become a one-stop learning platform for computational activity required for graduates in Aeronautical engineering
3. It will focus on opportunity creations for global mobility of students to adapt to cross cultural environment
4. It would develop an ecosystem for holistic development of future faculty members and students in aeronautical engineering.

Automobile Engineering

1. **Name of the department:**   Department of Automobile Engineering

2. **Year of Establishment:**   2011

3. **Names of Programmes / Courses offered**:

UG	PG	Ph.D. /M.Sc. (Eng.)
BE in Automobile Engineering		

4. **Names of Interdisciplinary courses and the departments/units involved:** Nil

5. **Annual/ semester/choice based credit system (programme wise):**
    Semester Based System

BE	I-IV sem	CBCS
	V-VIII sem	Semester scheme

6. **Participation of the department in the courses offered by other departments:**

    Nil

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**

    Nil

8. **Details of courses / programmes discontinued (if any) with reasons**:   Nil

9. **Number of Teaching posts**

	Sanctioned	Filled
Professors	01	01
Associate Professors	02	00
Asst. Professors	06	08

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	Industry	Teaching other than AIT	AIT	Total	No. of Ph.D Students guided for the last 4 years
C N Chandrappa	ME, Ph.D.	Prof. and HOD	Machine Design	1	21	4	26	08
Bharath A	M.Tech.	APG - III	Robotics	Nil	7	5	12	Nil
Prashanth K P	M.Tech.	APG - III	Advanced Materials Technology	Nil	4	2.5	6.5	Nil
Swathi M B	M.Tech.	APG - III	Computer Integrated Manufacturing	Nil	Nil	2.5	2.5	Nil
Avinash B R	M.Tech.	APG -III	Machine Design	Nil	2	0.6	2.6	Nil
Sreenath N	M.Tech.	APG - III	Thermal Power Engineering	1	2	0.6	3.6	Nil
Prajwal Lingaraju S	M.Tech.	APG - III	Machine Design	1.5	1.5	0.2	3	Nil
Athith D	M.Tech.	APG -III	Machine Design	Nil	Nil	0.2	0.2	Nil
Pavan Chwthay	M.Tech.	Lecturer	Thermal Power Engineering	1	Nil	0.2	1.2	Nil

11. **List of senior visiting faculty:**   Nil

12. **Percentage of lectures delivered and practical classes handled (programme wise): by temporary faculty**   Nil

13.   Student -Teacher Ratio (programme wise):

Sl.No	Program	Student Teacher Ratio
1	UG-BE in Automobile Engineering	20:1

14.   Number of academic support staff (technical) and administrative staff; sanctioned and filled

Category	Sanctioned	Filled
Technical	2	1
Administrative staff	1	1

15.   Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:

Sl. No.	No. of faculty
DSc/D Litt	Nil
Ph.D	01
M.Phil	Nil
PG	08

16.   Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17.   Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Name of the project	Funding agency	Year of Funding	Grant received
Development of HVOF sprayed cermets coating improving resistance to hot corrosion and erosion of gas turbine alloys	AICTE	2013	18.10 lakhs
Surface modification of metallic by twin roll cladding	DST (EMR)	2015	42.92 lakhs

18.   Research Centre /facility recognized by the University: Nil

19. Publications:

a) Publication per faculty

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. Areas of consultancy and income generated: Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
C N Chandrappa	Chairman BOE (Automobile engineering)			√	
	BOS, member		√		
	Chairman LIC committee	√			
	Senate Member	√			
Prof. Bharath A	Member, BOS, BOE		√		√

22. Student projects:

a) Percentage of students who have done in-house projects including inter departmental/ programme

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

	Year	Percentage	Year	Percentage
	2015-16		2014-15	
No of Students	45	100	51	100
No of in-house projects	39	87	51	100
No of Projects in R and D Labs				
No of Projects in Industry	6	13		

23. Awards / Recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists / visitors to the department:

Name	Designation	Date of visit	Activity
Parashuram	Member of the board, Toyota Industries Engine pvt. Ltd.	2014-15	Special lecture
T S Ramprabhu	Scientist, DRDO, Bangalore	2014-15	Special lecture
S S Kale	Regional Director, DRDO, Bangalore	2014-15	Special lecture
Prakash S Kulkarni	Prof. and Chief Scientist, Computional Machanics Laboratory, Dept. of Aerospace Engineering	18/02/2016	Special lecture
C Malikarjuna	Joint Commissioner for Transport , Govt. of Karnataka	28/04/2016	Special lecture
M K Murlidhara	Rtd. Professor	23/02/2017	Special lecture

25. Seminars / Conferences / Workshops organized and the source of funding a) National b) International:

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
National					
Auto Expo	28/04/2016 to 29/04/2016	BMW, KTM, TVS, Royal Enfield, Hyundai, Mahindra	1.11 LAKH Rs/-	40,000 Rupees/-	120 Participants

26.   Student profile programme / course wise:

Name of the Programme	Year	Applications received	Selected
BE(Automobile Engineering)	2013-2014	20	13
	2014-2015	28	14
	2015-2016	26	15
	2016-2017	23	19

27.   Diversity of Students:

Name of the Course	Year	% of students from the same state	% of students from other States	% of students from abroad
BE (Automobile Engineering)	2012-2013	77	23	00
	2013-2014	82	16	02
	2014-2015	79	21	00
	2015-2016	74	24	02
	2016-2017	71	29	00

28.   How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? Nil

29.   Student progression:

Student progression	Against % enrolled
UG to PG	03
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed 1. Campus selection 2. Other than campus recruitment	04
Entrepreneurship/Self-employment	

Progression in the Department (Based on First year admission):

Year	Intake	Year 1	Year 2	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2012-13	60	61	56	55	51	91	90	83
2013-14	60	62	47	45	56	75	72	
2014-15	60	53	37	59		69	90	
2015-16	60	56	45			80		
2016-17	60	52						

- Percentage based on first year admission

30. Details of Infrastructural facilities:

    a) Library: Department library available

        1) Space: 23Sq.Mts

        2) No. of books: 50

        3) Project reports: 50

    b) Internet facilities for Staff and Students:

        Broad band connectivity of

        1) 120Mbps – Railtel

        2) 10Mbps – BSNL

        3) Campus is enabled with Wi-Fi facility

    c) Total Class rooms with ICT

        2 class rooms: 81 sq.Mts

        2 class rooms: 56 Sq.Mts

    d) Students Laboratories: Sharing

    e) Research Laboratory: Nil

31. Number of students receiving financial assistance from college, university, government or other agencies:

Year	College	University	Social welfare	Merit	Other
2013-14	1		13		
2014-15	2		33		
2015-16			41		

32. **Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts:**

Date	Activity	Resource person	No of participants
23/04/2015	Special Lectures Modern trends in Automobiles. Manufacturing in Automobile Industry	T S Ramprabhu, Scientist, DRDO, Bangalore	90
23/04/2015	Special Lectures Topic: Importance of Composite materials in Automobiles.2	S S Kale, Regional Director, DRDO	90
18/02/2016	Special Lectures Topic: Recent Development in Automobile Engineering	Prakash S Kulkarni, Prof. and Chief Scientist, Computional Machanics Laboratory, Dept. of Aerospace Engineering	55
28/04/2016	Special Lectures Topic: Role of Two Wheelers in Road Transport.	C Malikarjuna, Joint Commissioner for Transport , Govt. of Karnataka	60
23/02/2017	Special Lectures Topic: "Second Law" of Thermodynamics and its Application	M K Murlidhara	130

33. **Teaching methods adopted to improve student learning:**

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	Yes		Yes		Yes	

34.   Participation in Institutional Social Responsibility (ISR) and Extension activities:

Date	Activity	No of Participants
18/04/2013	Blood donation	400
26/3/2014	Rain water harvesting	50
26/3/2014	Good habits and diabetics	50
26/3/2014	Awareness on Cancer and precaution	40

35.   SWOC analysis of the department and Future plans:

Strengths
1. Training of students towards developing professional skills.
2. Development of academic competencies.
3. Practical oriented teaching of the curriculum

Weakness
1. Developing state of art infrastructure
2. Lack of MoUs with Industry and R and D based organizations

Opportunities
1. Opportunities to increase the intake due to large growth in automotive sector in the globe.
2. Starting of Masters Programme and skill based value added courses.
3. International University tie-up for knowledge exchange with Center of Excellence

Challenges
1. To attract best Rank Students
2. Enrichment of curriculum to the latest Know How.
3. To get even more better linkages in Core Automobile companies
4. To get projects sponsored and patented

Future Plans
1. Starting of a postgraduate course and Research center in Automotive Engineering/Automotive technology
2. Starting of Automotive servicing training centers
3. Completion and Occupation of the New Block on the same Campus
4. Plans for student exchange programmes with Foreign Universities.
5. To introduce industry oriented electives through strengthened Industry – Institute Interaction.
6. Enhance industry institute partnership for certification courses

Biotechnology

1.   Name of the department: Department of Biotechnology

2.   Year of Establishment: 2002

3.   Names of   Programmes / Courses offered:

UG: BE Biotechnology	PG**:** 1. M Tech Biotechnology	Ph. D**:** Biotechnology
	2. M Sc Engg.(by research)	

4.   Names of Interdisciplinary courses and the departments/units involved: Nil

5.   Annual/ semester/choice based credit system (programme wise) Semester Based System (Non-CBCS)

BE	I-IV sem	CBCS
	V-VIII sem	Semester scheme
M.Tech	I-II sem	CBCS
	III-IVsem	Semester scheme

6.   Participation of the department in the courses offered by other departments:

          Nil

7.   Courses in collaboration with other universities, industries, foreign institutions, etc.   Nil

8.   Details of courses/programmes discontinued (if any) with reasons   Nil

9.   **Number of Teaching posts**

	Sanctioned	Filled
Professors	1	
Associate Professors	1	1
Asst. Professors	4	5
Lecturers		1

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	Industry	Teaching other than AIT	AIT	Total	No. of Ph.D Students guided in the last 4 years
S.M.Gopinath	M.Sc., M.Phil., PhD	Asso. Professor and HOD	Microbiology, Environmental Biotechnology, Nano Biotechnology, Enzyme technology		11	8	19	0
Ismail Shareef. M	B.Sc., M.Sc., PhD	Asst. Professor	Plant Biotechnology. andGenetic Engineering	1	0.6	13	15	0
Suneetha T.B	B.E., M.E, PhD	Asst. Professor	Chemical Engineering, Bioprocess Engineering, Phytochemistry		6	11	17	
Ramya Ramachanan	M.Sc., (PhD)	Asst Professor	Phytochemistry, Immunology, Molecular Biology andMicrobiology			9	9	Nil
Ashalatha	M.Sc., (PhD)	Asst Professor	Phytochemistry, Molecular Biology, Biochemistry andMicrobiology		2	9	11	
Liny.P	B.E., M.Tech	Asst. Professor	Chemical Engineering, Thermodynamics, Fluid mechanics and equipment design		7	0.8	8	
Pruthvish R	B.E.(Hons), M.Sc. (Engg)	Lecturer	Molecular Markers	1	0	0.2	1.2	

11.   List of senior visiting faculty   Nil

12.   Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty   Nil

13.   Student -Teacher Ratio (programme wise)

Sl. No	Program	Student Teacher Ratio
1	UG-BE in Biotechnology	18:1
2	PG-M.Tech Biotechnology	18:1

14.   Number of academic support staff (technical) and administrative staff, sanctioned and filled

Category	Sanctioned	Filled
Technical staff	02	01
Administrative staff	01	01

15.   Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Sl. No.	No. of faculty
DSc/D Litt	
Ph.D	3
M.Phil	0
PG	4

16.   Number of faculty with ongoing projects from a) National b) International funding agencies and grants received   Nil

17.   Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Isolation and Purification of Anticancer Enzyme and its Nano Particle.	KSCST	Suneetha T.B	2014	Rs. 5,000/-
Training and demonstration of cultivation of cut flowers Anthurium or Orchids for economic and enterprenurship development of rural weaker population and SC/ST women of Tumukur and Bengaluru(Rural) district	BDT	S M Gopinath Ismail Sherif	2013	Rs 22,00,000/-

18. Research Centre /facility recognized by the University: Yes

19. Publications:
   a) Publication per faculty

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. Areas of consultancy and income generated: Nil

21. Faculty as members in
   a) National committees
   b) International Committees
   c) Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
S M Gopinath	Chairman, BoS in Biotechnology of VTU (2016-till date)	√			
Suneetha T B	Member, BoE in Biotechnology of VTU (2015-2016)			√	

22. Student projects
   a) Percentage of students who have done in-house projects including inter departmental/programme

   b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

		Percentage
No of Students	34 (26 UG and 8 PG)	
No of in-house projects	10	29
No of Inter dept projects	03	8
No of Projects in R and D Labs	06	17
No of Projects in Industry	15	44

23. Awards / Recognitions received by faculty and students

Sl No	Name	Award/Recognitions
		Students
1	Sushma K	Best Outgoing student in 2015-16
2.	Varsha B.I and Vikas V	Best project award in 2015-16 Title: "In vitro antidiabetic study by glucose uptake assay on skeletal muscle cell line and GLUT4 gene expression studies".
3	Aftab Jahan Begum K.A	Student Ambassador for the Green India
4	Yash Shrivastava	Student Ambassador for the "Biodiversity"
5.	Barot Vandhana Hariram	Student Ambassador for the "Biodiversity"
6	Kishore, Basavaraj And Akshay	3rd prize paper presentation in National Conference on "EMERGING ISSUES IN GREEN CHEMISTRY: POSSIBLE ALTERNATIVES"

24. List of eminent academicians and scientists / visitors to the department

Name	Designation	Date of visit	Activity
Ashok Godavarthi	Founder and Director, Radiant Research Services Pvt Ltd	16.02.2015	Expert Talk and Discussion
PrabirPatra	Associate Professor, Department of Biomedical Engineering University of Bridgeport, USA	19.03.2015	
Yogisha	Founder and Director, Skanda Life Sciences Pvt Ltd , Bangalore	22.09.2015	
ShekarBabu	Dean - Prist University	29.10.2015	
David Smith	Sheffield Hallam University, UK	03.02.2016	
Jeremy Simpson	Head-School of Biology and Environmental Science, University College Dublin, Ireland	23.02.2016	
R B Tiwari	Principal Scientist (Horticulture) UNU-Kirin Fellow Japan Division of Post Harvest Technology Indian Institute of Horticultural Research	29.02.2016	

Name	Designation	Date of visit	Activity
Nethaji M	Principal Scientist Department of Inorganic and Physical Chemistry. Indian Institute of Science Bangalore	30.3.2017	ug Design using X-Ray Crystallography
Raghuram P.T	Principal Scientist Department of Chemical Engineering Indian Institute of Science Bangalore	30.3.2017	Fermenter Design

25.   Seminars/ Conferences/Workshops organized and the source of funding   a) National   b) International   Nil

26.   Student profile programme/course wise:

Name of the Course/programme		Applications received	Selected
B.E (Biotechnology) and M.Tech(Biotechnology)	2013-14	20 06	17 03
	2014-15	22 05	15 03
	2015-16	18 04	12 03
	2016-17	15 03	13 01

27.   Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E Biotechnology	60.9	34.8	4.4
M.Tech Biotechnology	62.5	37.5	
M.Sc Engineering by Research	100		
Ph.D	81.8	18.2	

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?**

Year	NET	SLET	GATE	Civil Services	Defense services	Others
2015-16			1			GRE/ TOFEL -5
2016-17			1			

Name of the Student	Type of Exam	Year
Anurag Vishwanath Prabhu	GATE	2015
Krishna Narayan	GRE/TOEFL	2015
Maneesh Nayak	GRE/TOEFL	2015
Shreyapundir singh	GRE/TOEFL	2015
Akshay Kumar	GRE	2016
Sushma.K	GRE	2016
Vani Venugopal	GATE	2017

29. **Student progression**

Student progression	Against % enrolled
UG to PG	18
PG to M.Phil.	
PG to Ph.D.	09
Ph.D. to Post-Doctoral	
Employed 　1. Campus selection 　2. Other than campus recruitment	08 10
Entrepreneurship/Self-employment	

Competitive Exam	Year	No	Year	No	Total
GATE	2016-17	1	2015-16	1	2

Progression in the Department (Based on First year admission)

Year	Intake	Year 1	Year 2	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2012-13	31	31	26	19	16	84	61	52
2013-14	26	24	23	24	24	96	100	100
2014-15	27	25	20	13		80	52	
2015-16	23	23	21			91		
2016-17	25	25						

- Percentage based on first year admission

30. Details of Infrastructural facilities

a) Library

1. Area : 14.88 m^2
2. Seating Capacity : 4
3. Books : 67
4. Journals : 47
5. UG and PG reports : 150

b) Internet facilities for staff and students:

Broad band connectivity of

1. 120Mbps – Railtel
2. 10Mbps – BSNL
3. Campus is enabled with Wi-Fi facility

c) Class rooms with ICT facility Yes

d) Laboratories

Lab - 1

1. Microbiology Lab
2. Genetic Engineering and Immuno technology lab
3. Biochemistry Lab
4. Cell and Molecular Biology Lab
5. Bio-kinetics and Enzyme technology lab

Lab - 2

1. Unit Operation Lab
2. Bioprocess Control and Automation Lab
3. Downstream Processing Lab
4. Upstream Processing Lab

31. **Number of students receiving financial assistance from college, university, government or other agencies (2015-16)**

No. of Students	College	University	Social welfare	Merit	Other
07			5	1	1(Rotary club)

32. **Details on student enrichment programmes (special lectures / workshops /seminar) with external experts**

Date	Program	Expert
16.02.2015	ug Discovery and Product Development	Ashok Godavarthi, Radiant Research Services Pvt Ltd
19.03.2015	Biochemical Engineering Research and opportunities	PrabirPatra, Associate Professor, Department of Biomedical Engineering University of Bridgeport, USA
22.09.2015	Clinical ug development	Yogisha , Founder and Director, Skanda Life Sciences Pvt Ltd , Bangalore
29.10.2015	Local mosquitoes- Global Implications	ShekarBabu, Dean - Prist University
03.02.2016	Homemade proteins and 3-D cell culture to detect biomolecules and investigate disease.	David Smith, Sheffield Hallam University, UK
23.02.2016	Trafficking of Protein toxins in mammalian cells	Jeremy Simpson, Head-School of Biology and Environmental Science, University College Dublin, Ireland
29.02.2016	Production of value added products from Fruits and Vegetables through technological intervention	R B Tiwari, Principal Scientist (Horticulture) UNU-Kirin Fellow Japan Division of Post-Harvest Technology Indian Institute of Horticultural Research
26.08.2016	SAS and Big Data Management	Mr.Vishwabramha Bhatt, Epoch Research Institute, Bangalore

Date	Program	Expert
24.09.2016	Aromatic oils and their applications	VivekBabu, Scientist, CIMAP(CSIR), Bangalore
30.3.2017	ug design by X-ray crystallography	Nethaji M, Principal Scientist, Department of Inorganic and Physical Chemistry. IISC, Bangalore
30.3.2017	Fermentation Design	RaghuramP.T, Principal Scientist, Department of Chemical Engineering, IISC, Bangalore

33. Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
√	√	√	√	√	√	Industry Visits

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Date	Activity	No of Participants
18/04/2013	Blood donation	400
26/3/2014	Rain water harvesting	50
26/3/2014	Good habits and diabetics	50
26/3/2014	Awareness on Cancer and precaution	40

35. SWOC analysis of the department and Future plans

Strengths

1. 40% of faculty in the department of Biotechnology possess Doctoral degree and the remaining faculty are pursuing and about to submit their thesis.
2. Interaction with industries and Universities for student projects (KSCST), Internships, expert lectures, training to faculty and students, industrial visits, student exchange program. The department has consistently bagged university ranks.
3. A major strength of the department is the faculty who are committed to excellent teaching using the ICT.
4. The department of Biotechnology has a strong alumni network and a robust mentor system for addressing student's problem

Weaknesses

1. Placements of students in the core companies to be improved.
2. Consultancy projects, collaboration with industries and foreign universities to be taken up more vigorously.
3. Laboratory facilities need to be improved.

Opportunities

1. The Alumni students are willing to interact and conduct hands on workshops that will benefit the students for placements in core companies.
2. To conduct an International conference in association with funding agencies such as AICTE, VGST, ISTE.
3. To organize workshops and seminars under various student-faculty chapters.
4. Encourage student entrepreneurs under Schemes like Skill India that provides opportunities in the form of subsidized loans.

Challenges

1. Getting core companies for campus recruitment.
2. To inculcate innovative practices among faculty and students in research projects for patent outcome.

Future Plans

1. To organize workshops and hands on training programs for the students to equip them with additional skills in their respective domains in BT.
2. To groom and encourage the students to take up higher studies
3. The department of Biotechnology in the coming five years plan to strengthen its R and D wing by applying for more funds in the form of research grants to various funding agencies like DBT, DST, VGST etc., and equip the labs with all the modern amenities.

Civil Engineering

1. **Name of the Department**:   Civil Engineering Department

2. **Date of Establishment**: 2009

3. **Names of Programmes/Courses offered(UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.):**

UG	PG	Ph.D. /M.Sc. (Eng.)
BE in Civil Engineering	Nil	Nil

4. **Names of Interdisciplinary courses and the departments/units involved:** Nil

5. **Annual/semester/choice based credit system (programme wise):**

    BE   I-IV semester   CBCS

             V-VIII semester   Semester scheme

6. **Participation of the department in the courses offered by other departments:**
                         Nil

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**   Nil

8. **Details of courses/programmes discontinued (if any) with reasons:** Nil

9. **Number of teaching posts**

	Sanctioned	Filled
Professors	2	2
Associate Professors	4	0
Asst. Professors	18	21

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil. etc.,)**

Name	Qualification	Designation	Specialization	Industry	Teaching other than AIT	AIT	Total	No. of Ph.D. Students Guided for the Last 4 years
N. Balasubramanya	M.E, Ph.D	Professor and Dean	Civil Engineering		34.5	3.5	38	
M.R Prakash	M.E, Ph.D	Professor and Hod	Struct.	3.5	6	17	23	4 students registered
Sushma.R	M.Tech, (Ph.D)	APG III	Environmental		1.5	4.5	6	
Sunil S K	M.Tech	APG III	Struct.		1	1.5	2.5	
Chaithra B.E	M.Tech	APG III	Struct.			2.5	2.5	
Dhananjay M	M.Tech	APG III	Highway		1	2.5	3.5	
Vijayalaxmi Rangrej	M.Tech	APG III	Struct.	2		1.5	3.5	
Jithendra S	M.Tech	APG III	Environmental Engg.		2.5	1	3.5	
Chidanand M Jadar	M.Tech	APG III	Geotechnical Engg.			0.5	0.5	
Ramya B	M.Tech	APG III	Hydraulics		3	0.5	3.5	
Puja Dutta	M.Tech	APG III	Geotechnical Engg.			0.5	0.5	
Sangeetha S	M.Tech	APG III	Infrastructure Construction And Management			1	1	
Satish Kumar M	M.Tech	APG III	Structural Engineering		2.4	1	3.4	
Deepika Girish	M.Tech	APG III	Construction Tech and Mgmt	2	4	0.5	6.5	

Name	Qualification	Designation	Specialization	No. of years of Experience				No. of Ph.D. Students Guided for the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
Nandeesh M S	M.Tech	APG III	Structural Engineering			0.5	0.5	
Shilpa Shet S	M.Tech	APG III	Geotechnical Engg.			2	2	
Sneha M K	M.Tech	APG III	Environmental Engg.		3		3	
Arpita C Patil	M.Tech	APG III	Structural Engg.		3		3	
Shreyas K	M.Tech	APG-III	Highway Technology					
Pramukh N	M.Tech	APG-III	Transportation Engineeringand Management					
Akhil Raj	M.Tech	APG-III	Structure Engineering					
Anand M Hulagabali	M.Tech	APG-III	Geo Tech		1			
Sowmyashree R	M.Tech	APG-III	Water and land management					

11. List of senior visiting faculty

Name and affiliation	Qualification	Subject handled
Vittal B R	MBA	10AL51 – Management And Entreprenurship

12. Percentage of lectures delivered and practical classes handled (programme wise) By temporary faculty   Nil

13. Student-Teacher Ratio (programme wise)   20:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Category	Sanctioned	Filled
Lab Instructor	04	04
Office Assistant	01	01

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

Sl. No.	No. of faculty
DSc/D Litt	Nil
Ph.D	2
M.Phil	Nil
PG	21

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received** Nil

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received**

Name of the project	Funding agency	Year of Funding	Grant received
Studies on Durability Characteristics of self healing bacterial concrete	KSCST	2014-15	7,000
Studies on Strength Characteristics of Self healing bacterial concrete	KSCST	2013-14	7,000

18. **Research Centre/facility recognized by the University:** Nil

19. **Publications:**

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

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. **Areas of consultancy and income generated:**   Nil

21. **Faculty as members in**

a) **National committees b)International Committees c)Editorial Boards**

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
N Balasubramanya	Review Committee		NITTE		MSRIT,MSRU, Alliance,NITTE
M R Prakash	Invited Member		Invited Member		

22. **Student projects**

> a) Percentage of students who have done in-house projects including interdepartmental/programme is 96%
> b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies is 4%

Projects	2012-13		2013-14		2014-15		2015-16	
	No's	%	No's	%	No's	%	No's	%
No of Students	51		61		141		81	
No of in-house projects	13	100	14	87.5	35	97	20	100
No of Inter dept projects			01	6.25				
No of Projects in R and D Labs								
No of Projects in Industry			01	6.25	01	3		
Others								

23. **Awards/Recognitions received by faculty and students:**

Name	Award/Recognition	Agency
H A Praveen Tissera	9TH RANK – 2012-13	VTU, Belgaum

24.   List of eminent academicians and scientists/visitors to the department:

Name	Designation	Date of visit	Activity
P. Nagesh	Zonal Head, ULTRA TECH CEMENT	26.04.2013	One day Workshop
H.N.Ramesh,	Professor, Department of Civil Engineering, UVCE, Jnanabharathi, Bangalore University	30.10.2013	Expert talk
P. Parthasarathy	Director, E-Parisaraa Pvt. Ltd.	09.11.2013	ICCE 2013- One day Conference
J. R. Mudakavi,	Professor, dept. Of chemical engg., i.i.sc	09.11.2013	Icce 2013- one day conference
L. G. Aswathnarayana,	Director, Space Geo Tech Pvt. Ltd., S.P.G.T	09.11.2013	ICCE 2013- One day Conference
H. Lakshmikantha,	Scientist, Karnataka State Pollution Control Board, K.S.P.C.B.	09.11.2013	ICCE 2013- One day Conference
H. S. Dayananda,	Professor and Head, Dept. Of Civil and Environmental Engg. U.V.C.E	09.11.2013	ICCE 2013- One day Conference
Sean kwak.	Designer in S-form a Korean company its g m	15.04.2015	Seminar of alumini formwork
Ravi D R,	Officer, KSPCB	29.04.2016	Expert talk
Arun KV Sidharth Chhawchharia,	Architect ,SAP labs PVT LTD Tech Analyst, Hashedin Technology	20.08.2016	Pre placement talk
A N Prakash	Managing Director. A.N. Prakash Construction Project Management Consultants Pvt. Ltd.	29.09.2016	Expert talk
Vasudev murthy ,	Manager, tools academy for career excellence	21/10/2016 to 22/10/2016	2 days concrete workshop

Name	Designation	Date of visit	Activity
Jaswanth sobhana,	Manager, south zone, basf	25/10/2016	Expert talk
Ajith Kumar	Free lancer, ark technologies	25/02/2017	Talk on career advancement
Bhanu prakash	Free lancer, ark technologies	12/03/2017	Talk on career advancement

25. Seminars/Conferences/ Workshops organized and the source of funding

a) National   b) International

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
National					
Indian Congress of Civil Engineers – 2013	1 day	Participant Reg. fees			30
Indian Congress of Civil Engineers – 2015	1 day	Participant Reg. fees			30
Open Source GIS	1 day 25.04.2013	Participant Reg. fees			47
Workshop On Bridge Modeling	30-31 OCT 14				30
Cement and Concrete Workshop- An Insight in to a wonderful world By Vasudev Murthy , Tools Academy for Career Excellence	21/10/2016 and 22/10/2016	Participant Reg. fees			60

26. **Student profile programme/ coursewise:**

Name of the programme (Management seats)	Year	Applications received	Selected
BE(Civil Enngineering)	2013-14	30	24
	2014-15	35	25
	2015-16	38	23
	2016-17	32	24

27. **Diversity of Students**

Name of the Course	%of students from the same state	%of students from other states	%of students from abroad
2012-13			
B E - Civil Engineering	40	49	11
2013-14			
B E - Civil Engineering	57	38	8
2014-15			
B E - Civil Engineering	63	29	8
2015-16			
B E - Civil Engineering	61	23	16

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Competitive Examinations	Year	No.	Year	No.	Year	No	Total
NET							
SLET							
GATE	2013	2	2016	3			5
Civil services							
Defense services	2012	1					1

29. Student progression

Student progression	Against % enrolled
UG to PG	30
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	

Employed
   1. Campus selection
   2. Other than campus recruitment
	
	10
	55

Entrepreneurship/Self-employment	5

Progression in the Department

(Based on First year admission):

Year	Intake	Year 1	Year 2	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2012 – 13	60	72	67	57	54	93	79	75
2013 – 14	60	72	60	46	45	83	64	63
2014 – 15	120	108	93	86		86	80	
2015 – 16	120	109	92			84		
2016 -17	120	87						

30. Details of Infrastructural facilities

    a) Department Library - Total Volume – 196

    b) Internet facilities for Staff and Students –
       Broad band connectivity of
       1. 120Mbps – Railtel
       2. 10Mbps – BSNL
       3. Campus is enabled with Wi-Fi facility

    c) Class rooms with ICT facility – 07 class rooms

    d) Laboratories –08
       1. Strength of Materials Lab   7. Environmental Engineering Lab
       2. Survey Lab   8. Transportation Lab
       3. Geotech Lab
       4. Hydraulics and Hydraulics Machines Lab
       5. Material Testing Lab
       6. CAD Lab

31. Number of students receiving financial assistance from college, university, government or other agencies

No of Students	College	University	Social welfare	Merit	Other
2015-16 - 02 2014-15 - 04 2013-14 – 04 2012-13 - 03	AIT	VTU	KMDC		
2012-13 – 08	AIT	VTU	DEFENCE		
2012-13 - 83 2013-14 – 04 2014-15 - 75 2015-16- 90	AIT	VTU	OBC		
2012-13 – 25 2013-14 - 14 2014-15 – 15+7 2015-16- 18+04	AIT	VTU	SC.ST BELOW 2.5 LAKH		
2015-16–06+02 2014-15 – 05+02 2013-14 – 05	AIT	VTU	SC.ST ABOVE 2.5 LAKH		

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts (For 2015-16)

Date	Activity	Resource person	No of participants
26.04.2013	Concrete Technology- guest lecture	Nagesh, Ultra Cement	60
30.10.2013	Importance of geotechnical engineering and earth quake effects	H.N.Ramesh, Professor, Department of Civil Engineering, UVCE, Jnanabharathi, Bangalore	60
15.04.2015	Aluminum Shuttering and Formwork	Mr Sean Kwak General Manager,S-FORM)	60
11.02.2016	Seminar on -G.I.S	kCube Consultancy Services, Chennai	50
10.02.2016	Seminar on GATE coaching	Narendra reddy and Prajwal ACE GATE , IES Coaching centre	70
29.04.2016	Solid waste management in bengaluru-guest lecture	Ravi D R, Officer, KSPCB	100

Date	Activity	Resource person	No of participants
29.09.2016	Construction Project Management and its role in Construction Projects	A N PRAKASH Managing Director. A.N. Prakash Construction Project Management Consultants Pvt. Ltd.	100
20.08.2016	Pre placement Talk	Arun KV, Architect ,SAP labs PVT LTD and Sidharth Chhawchharia, Tech Analyst, Hashedin Technology	120
25.10.2016	Importance of Admixtures in Today's Construction	by Jaswanth Sobhana, Manager, South zone, BASF	65

33. Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	07	Yes	Yes	Yes	Yes	

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Date	Activity	No of Participants
08.03.2013	Guest lecture about " Rain Water Harvesting" for the people of Bodugur village near Siddlaghatta	
23.10.2013	A mega rally on World Sight Day	800 students and 300 Lion Club members
13.08.2014	Blood donation camp	50
20.02.2017	Waste Management	
21.02.2017	Digitalization	
22.02.2017	Health awareness program	
23.02.2017	Blood Donation Camp Constitution Day Plantation of trees etc…	

35. SWOC analysis of the department and future plans

Strengths

1. Highly qualified, committed and experienced faculty.
2. Cosmopolitan and progressive culture due to Students from India and Abroad.
3. Encouragement for student's initiatives.

Weakness

1. Institution-industry interaction
2. Industrial consultancy and applied research
3. Recruitment/retention of Senior faculty

Opportunities

1. Starting of Post Graduate Programs
2. Catering to the requirements of Society
3. Alumni Networking for Academic and Placement activities

Challenges

1. Possibility of declining of students admitted due to extremely large institutes/universities that are coming up.
2. Decrease in availability of quality faculty with passion for teaching.
3. To make MOU'S with as number of industries possible

Future Plans

1. To start PG program
2. Start research Centre
3. Involve UG and PG students in consultancy work

Computer Science and Engineering

1. Name of the Department: Computer Science and Engineering

2. Year of Establishment: 2000

3. Names of Programmes / Courses offered:

UG	PG	PhD. / MSc. (Engg.)
BE in Computer Science	M.Tech in Computer Scienceand Engineering	VTU Research Centre

4. Names of Interdisciplinary courses and the departments/units involved: Nil

5. Annual/ semester/choice based credit system (programme wise):

        BE   I-IV sem   CBCS

                  V-VIII sem   Semester scheme

        M.Tech   I-II   sem   CBCS

                 III-IV sem   Semester scheme

6. Participation of the department in the courses offered by other departments:

Department	Course
Bio Technology	15BT 36 Basics of Computer Application
Mining	10MN73 Computer Application in Mining

7. Courses in collaboration with other Universities, industries, foreign institutions, etc.: Nil

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts

	Sanctioned	Filled
Professors	3	01
Associate Professors	5	02
Asst. Professors	18	23

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. etc,)**

Name of The Staff	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
P V Kumar	M.Tech., PhD	Professor and HOD	Computer Science and Engineering	25	2
Nagesha A.G.	M.Tech (PhD)	Associate Professor	Computer Science and Engineering	19	
Varalakshmi B D	M.E.,	Associate Professor	Computer Science and Engineering	16	
Surekha K. B.	M.Tech (PhD)	APG-I	Computer Science and Engineering	16	
Deepak S S	M.Tech (PhD)	APG-I	Information Technology	18	
Vani K S	M.Tech	APG-II	Computer Network Engineering	13	
Nagaveni V.	M.Tech.Ph.D	APG-II	Computer Science and Engineering	15	
Gayathri Kamath	M.Tech	APG-II	Computer Science and Engineering	13	
Narasimha Murthy M.S	M.Tech (Ph.D)	APG-II	VLSI Design and Embedded Systems	15	
Naidila Sadashiv	M.Tech (PhD)	APG-II	Computer Science and Engineering	13	
MD Ziaur Rahman	M.Tech (PhD)	APG-III	Computer Science and Engineering	10	
Varshini Vidyadhar	M.Tech (PhD)	APG-III	Digital Communication and Network Engineering	5	
Vaishak Sundaresh	M.Tech	APG-III	Networking and Internet Engineering	4	
Dayananda Lal.N	M.Tech	APG-III	Computer Science and Engineering	7	
Sunil.G.L	M.Tech	APG-III	Computer Science and Engineering	6	

Name of The Staff	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Manujakshi B C	M.Tech (PhD)	APG-III	Computer Science and Engineering	10	
Manjunath G S	M.Tech	APG-III	Computer Science and Engineering	4.5	
T Latha Rani	M.Tech (PhD)	APG-III	Digital Electronics	8.5	
Karthik D U	M.Tech	APG-III	Computer Science and Engineering	1.5	
Bhavana A	M.Tech	APG-III	Computer Network Engineering	5	
Vandana Reddy	M.Tech (PhD)	APG-III	Computer Science and Engineering	2.5	
Dhanya V Kurup	ME.,	APG-III	Computer Science and Engineering	1.5	
Shivananda	M.E	APG-III	Computer Science and Engineering		
Mahesh G	M.Tech	APG-III	Computer Science and Engineering		
Deepshikha Rathore	M.Tech	APG-III	Computer Science and Engineering	1	
Moshina Choudhury	M.Tech	APG-III	Computer Science and Engineering	1	

Note: Three faculty members are allotted for first year

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student -Teacher Ratio (programme wise)
   UG: 20:1   PG: 12:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Supporting Staff	Sanctioned	Filled
Administrative Staff	1	1
Assistant Manager-IT	1	1
System Engineer	1	1
Technical Lead	1	1
Trainee	1	1
Lab Instructors	4	2
Programmer	4	1
Assistants	1	1

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

Sl. No.	No. of faculty
DSc/D Litt	
Ph.D	1
M.Phil	
PG	25

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:** Nil

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received**

Name of the Project	Funding agency	Year of Funding	Grants received in Rs
SMYSR-Haptic Devices for Physically Challenged People	VGST	2013-14	6,00,000

18. **Research Centre /facility recognized by the University:** Yes
Research Centre Recognized by VTU -**2013**

19. Publications:

a) Publication by faculty

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. Areas of consultancy and income generated: Nil

21. Faculty as members in

a) National committees   Nil

b) International Committees Nil

c) Editorial Boards

Committee/Board	Name	Year
IJNCAA International Journal of New Computer architectures and their Applications.	Nagaveni V	2014

22. Student projects

a) **Percentage of students who have done in-house projects including inter Departmental / programme**

b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies:** Nil

23. Awards / Recognitions received by faculty and students

Name	Award/Recognitions
Staff	
Year 2015-16	
B Gayathri Kamath	Bronze partner faculty under Inspire- The Campus Connect Faculty Partnership Model- Infosys
Sunil G L	
Suresh Patel	
B Gayathri Kamath	'A' grade – TTT on Python Programming Fundamentals - Infosys
Vaishak Sundaresh	'A' grade – TTT on Python Programming Fundamentals - Infosys

Name	Award/Recognitions
Year 2014-15	
B Gayathri Kamath	EMC- Academic Associate
Year 2013-14	
Varalakshmi B D	Young Scientist Award
Students	
Year 2013-14	
Raja Joseph	Silver Medal in best Physique of 85Kg under VTU

24. List of eminent academicians and scientists / visitors to the department

Name	Date
Year 2015-16	
Riyad Rasheed CEO, Dwise Solutions and Services Pvt Ltd, Bangalore	15/2/2016
Machayya, CEO –InterLine publishing house	9/9/2015
Sujatha Pillai, Microsoft	30/03/2015
Vijay Balakrishnan, AMCAT Team	10/03/2015
Venkataramereddy, Ex Vice Chancellor, JNTU H	23/01/2015
Year 2014-15	
H R Mahadevaswami, Applied Invention Pvt Ltd	17/06/2014
S S Iyengar, Florida International University	05/08/2014
Cognizant Personnel	08/10/2014
M. Prithviraj, Executive Secretary, KSCST	12/11/2014
Venkataramereddy, Ex Vice Chancellor, JNTU H	23/01/2015
TCS Company Employees	07/02/2015
Vijay Balakrishnan, AMCAT Team	10/03/2015
Sujatha Pillai, Microsoft	30/03/2015
GATE Institute	03/04/2015

Name	Date
From Softskills Department, Acharya Institutes	13/04/2015
Rajdeep Manvani	15/04/2015
Year 2013-14	
Subimal Bhattacharjee	03/04/ 2013
Jeevan, M/s Interprid Pvt Ltd.	25/09/2013
S S Iyengar, Florida International University	30/12/2013
Venkat Barla, Sanskruti School of Business, Puttaparti	20/01/2014

25. Seminars/ Conferences/Workshops organized and the source of funding
a) National

Name of Seminars/ Conferences/Workshops	Date	Funding
National		
Year 2015-16		
Android Application Development	2/4/2016	CSI-Student Chapter, AIT
Big Data and hadoop	24 /3/16 and 25/3/16	
Know your Brain a Computer Way	19/08/2015	AIT
Year 2014-15		
FDP on "Multicore Architecture, Multithreading andProgramming"	21/08/2014 and 23/08/2014	AIT and CSI
Two Day Workshop on Android Apps Development	17/09/2014 and 18/09/2014	AIT and Meta Innovations Pvt Limited
3 Day Workshop on Storage Area Networks Configuration and Management	13/10/2014 to 15/10/2014	CSI, AIT
Year 2013-14		
Distributed Computing and Virtualization	10-13th July, 2013	VTU-VGST Sponsored

b) International: Nil

26. Student profile programme /course wise:

Name of the Programme	Year	Applications received	Selected
BE(Computer Science and Engineering) M.Tech (Computer Science and Engineering) M.Tech (Computer Networking Engineering)	2013-14	75 10 06	55 04 05
	2014-15	68 08 08	53 05 04
	2015-16	62 03 02	34 01 01
	2016-17	52 02 03	34 00 01

27. Diversity of Students

Course: BE Computer Science and Engineering

Year	% of students from the same state	% of students from other states	% of students from abroad
2013-14	49.63	41.60	8.75
2014-15	48.22	37.58	14.18
2015-16	50.76	41.53	7.69

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	NET	SLET	GATE	Civil Services	Defense services	Others
2015	Nil	Nil	Nil	Nil	Nil	1 Student has cleared banking exam

29. Student progression

Student progression	2012-13	2013-14	2014-15	2015-16
UG to PG	0.01		2.15	
PG to M.Phil				
PG to Ph.D				
Employed: campus selection	27.55	35.00	62.93	60.99
Entrepreneurship/ self-employment		1.15		

Progression in the Department (Based on First year admission)

Year	Intake	Year 1	Year 2	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2012-13	135	146	135	128	126	93	95	99
2013-14	132	148	128	124		87	97	
2014-15	137	144	123			86		
2015-16	130	142						
2016-17	132							

30. Details of Infrastructural facilities

a) Department Library:

No. of books		No. of journals		CD
No. of titles	No. of volumes	National	International	
452	776	8	5	227

b) Internet facilities for Staff and Students: Broad band connectivity of
1. 120Mbps – Railtel
2. 10Mbps – BSNL
3. Campus is enabled with Wi-Fi facility

c) Class rooms with ICT facility: 4 class rooms

d) Laboratories

CSE LAB 001		
System Type	Configuration	Number of Systems
Desktop system	HP Compaq 8200 Elite- Processor Core i5 2400,3.1 GHz, 6MB Cache, 4 Cores, 4GB DDR3 RAM, 500GB Hard disk 7200 RPM / Chipset Intel Q67 Express with inbuilt Graphic Card (Intel HD Graphics 2000), 18.5'' LED TFT Monitor, Optical Mouse, andHP Key board.	40
Total Number of Systems		40
Software's	Operating System:	
	Windows 7 and Ubuntu 12.04	
	Application Software: MS-Office 2007	
	System Software: Turbo C++, JDK 1.4.2_04	
	Antivirus: McAfee	

CSE LAB 201		
System Type	Configuration	Number of Systems
Desktop system	System Configuration: Intel PD 805 2.66 GHz. 80 GB SATA Hard Disk 512 MB RAM, HCl 104 Keyboard, 17" HCL Monitor, 2 buttons mouse	8
	Assembled Core i5, 4GB RAM, DDR3, 250GB HDD, ATX Cabinet,18.5 LED WIDE FORNTECH	30
Server	HP Server ProLiant ML 150 G3 single Processor 3 GHz, 2 GB RAM, 72x2 RAID HDD DVD ROM, R/W Combo Drive, HP 104 Keys KB, 17" Color Monitor TYPE2	1
Total		39
Software's	Operating System:	
	Windows XP and Fedora 12	
	Application Software: MS-Office 2007	
	Database: Oracle 10g	
	System Software: Turbo C++, JDK 1.4.2_04	
	Antivirus: McAfee	

CSE LAB 202		
System Type	Configuration	Number of Systems
Desktop Systems	Intel PD 805 2.66 GHz. 80 GB SATA Hard Disk 512 MB RAM, HCl 104 Keyboard, 17" HCL Monitor, 2 buttons mouse	15
	Assembled Core i5, 4GB RAM, DDR3, 250GB HDD, ATX Cabinet,18.5 LED WIDE FORNTECH	25
Server	HP Server Proliant ML 150 G3 single Processor 3 GHz, 2 GB RAM, 72x2 RAID HDD DVD ROM, R/W Combo Drive, HP 104 Keys KB, 17" Color Monitor TYPE2	1
Total		41
Software's	Operating System:	
	Windows XP, Windows 98 and Fedora 12	
	Application Software: MS-Office 2007	
	System Software: Turbo C++, JDK 1.4.2_04	
	Antivirus: McAfee	
CSE LAB 301		
System Type	Configuration	Number of Systems
System Configuration :	Assembled Intel® Core™ i5 CPU, 3.33 GHz, Hard Disk – 250 GB, RAM – 4 GB DDR Monitor –Frontech LED Monitor 47cm Wide screen. Keyboard - I ball Wintop v3.0, Mouse - I ball Wintop v3.1	25
	System Configuration: Intel (D) 3.0 GHz. 80 GB SATA Hard Disk 512 MB RAM, HCL 104 Keyboard, 17" HCL Monitor, 2 buttons mouse	13
Server	HP Server ProLiant ML 150 G3 Dual Processor 3 GHz, 3 GB RAM, 72*3 RAID HDD DVD ROM, R/W Combo Drive, 43 CM (17") HCL CLR Monitor, HCM 728 M W/M PR-II-BLK ATX- CABINET, HCL 104 Keys KB, 14 Button INT/MM, Optical PS/2 Mouse Blk and Serial.	1
Total Number of Systems		39

Software's	Operating System:
	Windows XP , Fedora
	Application Software: MS-Office 2007
	System Software: Turbo C++
	Antivirus: McAfee

Total Number of systems in C.SandE Department	159

31. **Number of students receiving financial assistance from college, university, Government or other agencies:**

Scholarship	2013-14	2014-15	2015-16
Taluk social welfare office [below 2.5 lakh] for SC [UG and PG]	30	19	34
Taluk social welfare office [below 2.5 lakh] for ST [UG and PG]	4	4	3
DTE scholarship [Above 2.5 lakh] for UG[SC/ST]			
Karnataka Minorities Development Corporation	3	6	5
OBC Scholarship [UG and PG]-BCM Scholarship	44	49	90
College	3	7	

32. **Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

Date	Program	Expert
15 /02/2016	Significance of Entrepreneurship for Engineering Students	CEO, Dwise Solutions and Services Pvt Ltd, Bangalore
28/10/2015	Introduction to Fonetwish Platform	Anush and Saaransh, Fonetwish
09/09/2015	Research Based Education and Content Writing	C.M.Machayya, Co-founder, interlinepublishing.com
30-09-2015	Industrial Visit to ISRO Satellite Centre	H.L.Srinivasa.

Date	Program	Expert
04/09/2015	"Educational trip to Indian Institute of Science, Bangalore".	Raghuraman, System Administration, S.E.R.C
26/08/2015	CDAC Industrial visit	CDAC

33. Teaching methods adopted to improve student learning

1. Black Board
2. White Board
3. Chalk and Talk
4. Role Play
5. Power Point Presentation
6. NPTEL Videos/MOOC Cell
7. Live Demo

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

1. The iCare Group is a student-formed organization that believes and works over community events with the intention of spreading social benevolence and learning.
2. Nature Watch - The Eco-Club of A. I .T
3. NCC
4. Blood Donation

35. SWOC analysis of the department and Future plans

Strength

1. Highly Qualified Teaching and Non-Teaching Staff
2. Strong Faculty Parent/Student Interaction
3. Good Industry Institute Interaction

Weakness

1. Up gradation of Computer Systems with UPS/Library books
2. Faculty retention rate is low
3. Non availability of 1) Seminar hall 2) Discussion Room 3) Sports Room
4. Ladies Waiting Room 5) sufficient number of Lecture Halls

Opportunity

1. Students are allowed to do training/Internship both in Industry and International Universities.
2. Facilitating Faculty/Students for Higher Studies/Personal development
3. Fetching Grants/Consultancy from reputed agencies by Faculty Members

Challenges

1. Creating Environment to transform students into Entrepreneurs
2. Curriculum not in line with Technology changes/Industry needs
3. Achieving the quality of Global Education

Future plans

1. Planning to conduct a workshop on 'Ethical Hacking'.
2. Planning to conduct a National Seminar on 'Big Data and Cloud Computing.
3. Planning to conduct a technical talk on 'Mathematical Modelling'.
4. Planning to conduct a FDP on 'Algorithm Design and Development

Construction Technology and Management

1.   **Name of the department:** Construction Technology and Management

2.   **Year of Establishment:** 2011

3.   **Names of   Programmes / Courses offered**

UG: Construction Technology and Management	PG: Nil	Ph.D.: Nil

4.   **Names of Interdisciplinary courses and the departments/units involved:** Nil

5.   **Annual/ semester/choice based credit system (programme wise)**

   BE   I-IV semester   CBCS

   V-VIII semester   Semester scheme

6.   **Participation of the department in the courses offered by other departments:**
   Nil

7.   **Courses in collaboration with other universities, industries, foreign institutions, etc.:**   Nil

8.   **Details of courses/programmes discontinued (if any) with reasons**:   Nil

9.   **Number of Teaching posts**

	Sanctioned	Filled
Professors	1	1
Associate Professors	2	0
Asst. Professors	6	8

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience				No. of Ph.D.Students guided for the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
M T Maruthesha Reddy	M.Sc, Ph.D	Professor	Geology		28	5	33	
Sirisha Reddy	M.Tech	APG-III	Construction Technology	1		2.9	3.9	
Prathiba S	M.Tech	APG-III	Structures	8	2.6	1.9	12.5	
Anil Kumar	M.Tech	APG-III	Construction Technology	2		1.9	3.9	
H K Chandrashekar	M.Tech	APG-III	Structures	1		1.9	2.9	
K M Chanitanya	M.Tech	APG-III	Construction Technology			0.8	0.8	
K. Vijesh	M.Tech	APG-III	Construction Technology					
Viswanath K	M.Tech	APG-III	Construction Technology					
Rajani V Akki	M.Tech	APG-III	Construction Technology		3			

11. **List of senior visiting faculty**

Vital B.R	10CT55 - Construction Economics and Finance 10AL51 – Entrepreneurship and Management 15CT46 - Financial and Cost Accounting 10CT82 - Arbitration

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:** Nil

13. **Student -Teacher Ratio (programme wise):** 20:1

14. **Number of academic support staff (technical) and administrative staff, sanctioned and filled**

Category	Sanctioned	Filled
Lab Instructor	04	04
Office assistant	01	01

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

Qualifications	No of faculty
DSc/D Litt	
Ph.D	1
M.Phil	
PG	8

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:** Nil

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:** Nil

18. **Research Centre /facility recognized by the University:** No

19. **Publications:**
  a) Publication per faculty
  Number of papers published in peer reviewed journals (national / International) by faculty and students

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20.   Areas of consultancy and income generated: Nil

21.   Faculty as members in
a) National committees b) International Committees c) Editorial Boards: Nil

22.   Student projects
a) Percentage of students who have done in-house projects including inter departmental/programme -   79
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies - 21

Projects	2014-2015		2015-2016		2016-2017	
	No's	%	No's	%	No's	%
No of Students	16		31		44	
No of in-house projects	3	75	6	75	10	90
No of Inter department projects						
No of Projects in R and D Labs						
No of Projects in Industry	1	25	2	25	1	9
Others						

23.   Awards / Recognitions received by faculty and students:

Name	Award/Recognition	Agency	Year
Divyashree V.P	II Rank	VTU, Belagum	2014-2015
Abhisheik Pd	Gold Medal	VTU, Belagum	2015-2016
Prajwal B	III Rank	VTU, Belagum	2015-2016
Arindam Thakuria	IV Rank	VTU, Belagum	2015-2016
Nalluri Rajaharsha	VI Rank	VTU, Belagum	2015-2016
Sachin S Guraddi	VIII Rank	VTU, Belagum	2015-2016
Prakhar Tiwari	X Rank	VTU, Belagum	2015-2016

24.   List of eminent academicians and scientists / visitors to the department

Name	Designation	Date of visit	Activity
P. Parthasarathy	Director, E-Parisaraa Pvt. Ltd.	09.11.2013	ICCE 2013- One day Conference
J. R. Mudakavi,	Professor, dept. Of chemical engg., i.i.sc	09.11.2013	Icce 2013- one day conference
L. G. Aswathnarayana,	Director, Space Geo Tech Pvt. Ltd., S.P.G.T	09.11.2013	ICCE 2013- One day Conference
H. Lakshmikantha,	Scientist, Karnataka State Pollution Control Board, K.S.P.C.B.	09.11.2013	ICCE 2013- One day Conference
H. S. Dayananda,	Professor and Head, Dept. Of Civil and Environmental Engg. U.V.C.E	09.11.2013	ICCE 2013- One day Conference
P. NAGESH	Zonal Head, Ultra Tech Cement	26.04.2013	One day Workshop
H.N.RAMESH,	Professor, Department of Civil Engineering, UVCE, Jnanabharathi, Bangalore University	30.10.2013	Expert talk
Sean kwak.	Designer in S-form a Korean company its g m	15.04.2015	Seminar of alumini formwork
Ravi D R,	Officer, KSPCB	29.04.2016	Expert talk
A N PRAKASH	Managing Director. A.N. Prakash Construction Project Management Consultants Pvt. Ltd.	29.09.2016	Expert talk
Arun KV Sidharth Chhawchharia,	Architect ,SAP labs PVT LTD Tech Analyst, Hashedin Technology	20.08.2016	Pre placement talk
Vasudev murthy	Manager, tools academy for career excellence	21.10.2016 to 22.10.2016	2 days concrete workshop
Jaswanth sobhana,	Manager, south zone, basf	25.10.2016	Expert talk
Bhanu prakash	Free lancer, ark technologies	12.03.2017	Talk on career advancement
Ajith Kumar	Free lancer, ark technologies	25.02.2017	Talk on career advancement

25. Seminars/ Conferences/Workshops organized and the source of funding

   a) National   b) International:

Seminar/ Conference/ hop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
National					
Indian Congress of Civil Engineers – 2013,1 day National Conference	1 day	Participant Reg. fees			30
Indian Congress of Civil Engineers – 2015, 1 day National Conference	1 day	Participant Reg. fees			30
Cement and Concrete Workshop- An Insight in to a wonderful world By Vasudev Murthy , Tools Academy for Career Excellence	21/10/2016 and 22/10/2016	Participant Reg. fees			60

26.   Student profile programme / course wise:

Name of the Programme (Management seats)	Applications received	Selected
2012-2013	12	09
2013-2014	18	10
2014-2015	09	05
2015-2016	02	00

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2012-13			
Construction Technology and Management	59	38	3
2013-14			
Construction Technology and Management	57	36	7
2014-15			
Construction Technology and Management	67	21	12
2015-16			
Construction Technology and Management	71	8	21

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Competitive Exams	Year	No	Year	No	Year	No	Total
NET							
SLET							
GATE	2016	1					
Civil services							
Defense services							

29.   Student progression

Student progression	Against % enrolled
UG to PG	28%
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil

Employed
   1.   Campus selection
   2.   Other than campus recruitment
	2%

Entrepreneurship/Self-employment	2%

Progression in the Department (Based on First year admission)

No/year	Intake	Year1	Year2 (Regular+LA)	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2012-13	60	49	36+7=43	43	43	73	77	77
2013-14	60	34	20+9=29	27		59	63	
2014-15	60	27	21+8=29			78		

- Percentage based on first year admission

30. Details of Infrastructural facilities

   a) Department Library: Volume-196

   b) Internet facilities for staff and students:

      Broad band connectivity of

         1.   120Mbps – Railtel
         2.   10Mbps – BSNL
         3.   Campus is enabled with Wi-Fi facility

   c) Class rooms with ICT facility- 03

   d) Laboratories: 3 laboratories fully furnished

31. **Number of students receiving financial assistance from college, university, government or other agencies-**

No of Students	College	University	Social welfare	Merit	Other
2015-16 -Nil 2014-15 - Nil 2013-14 – 01 2012-13 – 01	AIT	VTU	KMDC	5	
2012-13 – 01 2013-14 – 01 2014-15 – 01	AIT	VTU	DEFENCE	4	
2012-13 - 04 2013-14 – 04 2014-15 - 09 2015-16- 25	AIT	VTU	OBC		
2012-13 – Nil 2013-14 - 02 2014-15 – 01 2015-16- 6+4	AIT	VTU	SC.ST BELOW 2.5 LAKH	5	
2015-16–02+01 2014-15 –Nil 2013-14 – 2+1	AIT	VTU	SC.ST ABOVE 2.5 LAKH		

32. **Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

Date	Activity	Resource person	No of participants
15-04-2015	Aluminum Shuttering and Formwork	Mr Sean Kwak General Manager,S-FORM)	60
11.02.2016	Seminar on -G.I.S	kCube Consultancy Services, Chennai	50
10.02.2016	Seminar on GATE coaching	Narendra reddy and Prajwal ACE GATE , IES Coaching centre	70

Date	Activity	Resource person	No of participants
29.04.2016	Solid waste management in Bengaluru-Guest Lecture	Ravi D R, Officer, KSPCB	100
29.09.2016	Construction Project Management and its role in Construction Projects	A N Prakash Managing Director. Construction Project Management Consultants Pvt. Ltd.	100
20-08-2016	Pre placement Talk	Arun KV, Architect , SAP labs PVT LTD Sidharth Chhawchharia, Tech Analyst, Hashedin Technology	120
25/10/2016	Importance of Admixtures in Today's Construction	Jaswanth Sobhana, Manager, South zone, BASF	65

33. Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	03	Yes	Yes	Yes	Yes	

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Date	Activity	No of Participants
08.03.2013	Guest lecture about " Rain Water Harvesting" for the people of Bodugur village near Siddlaghatta	
23.10.2003	A mega rally on World Sight Day	800 students and 300 Lion Club members
13.08.2014	Blood donation camp	50
20.02.2017	Waste Management	
21.02.2017	Digitalization	
22.02.2017	Health awareness program	
23.02.2017	Blood Donation Camp Constitution Day Plantation of trees etc…	

35.   SWOC analysis of the department and Future plans

Strengths

1. Students are university rank holders.
2. Determined, dedicated faculty.
3. Students with good achievement in extracurricular activities- Sports, Nature watch Eco-club, Music etc.

Weakness

1. Digitalized equipments and modern tools.
2. Industrial consultancy.
3. Industry Institution interaction.
4. Placements in reputed companies.

Opportunities

1. Can pursue graduation in different streams globally.
2. Consultancy services in Construction projects.
3. Alumni networking for placement and academic activities.
4. To improve the existing curriculum for the industrial needs.

Challenges

1. To motivate students for admission in the department
2. To get MOU's with the professional bodies
3. To achieve NABL for consultancy services.

Future Plans

1. Establish a research centre and PG
2. Involve PG and UG students in consultancy service
3. To bring funds and setup latest equipments required for research centre
4. Train the students through internship from the projects taken

Electronics and Communication Engineering

1. **Name of the Department:** Electronics and Communication Engineering

2. **Year of Establishment:** 2000

3. **Names of Programmes / Courses offered:**

UG	PG	Ph.D./ MSc. (Engg.)
BE in Electronics and Communication Engineering	M.Tech. in Digital Communication Engineering	VTU Research Centre

4. **Names of Interdisciplinary courses and the departments/units involved:** Nil

5. **Annual/ semester/choice based credit system (programme wise) Semester Based System (Non-CBCS)**

BE	I-IV sem	CBCS
	V-VIII sem	Semester scheme
M.Tech	I-II sem	CBCS
	III-IV sem	Semester scheme

6. **Participation of the department in the courses offered by other departments**

Department	Subject offered with code
Manufacturing Science and Engineering	10MA55 Applied Electronics and Microprocessor 10MAL57 Applied Electronics and Microprocessor Laboratory

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
   Nil

8. **Details of courses / programmes discontinued (if any) with reasons:** Nil

9. **Number of Teaching posts**

Title	Sanctioned	Filled
Professors	03	04
Associate Professors	05	03
Asst. Professors	16	17

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of years of Experience				No. of Ph.D Students guided in the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
Rajeswari	M.E, Ph.D	HOD and Professor	Speech Processing	0	0	22	22	3
H D Maheshappa	M.Tech, Ph.D	Professor	Instrumentation	0	26	7	33	5
Sevugarajan S	Ph.D	Professor	Instrumentation	1	7.5	3.5	12	
Shivashankrappa N	M.E (Ph.D)	Professor	Electronics and Communication	0	34	1	35	
Sujatha B.M	M.E (Ph.D)	Associate Professor	Electronics and Communication	0	6	15	21	
Jayalaxmi.H	M.Tech (Ph.D)	Associate Professor	VLSI and Embedded System	1	5	13	19	
Krupaprasad K.R	M.Tech (Ph.D)	Associate Professor	Biomedical Instrumentation	0	22	3.5	25.5	
Raghunath B.H	M.Tech (Ph.D)	APG-I	VLSI and Embedded System	3	3	12	18	
Siddesh M.B	M.Tech (Ph.D)	APG-I	Power Electronics	0	2	12	14	
Shailesh M.L	M.Tech	APG-II	Electronics	0	7	9	16	
Nataraju A.B	M.E (Ph.D)	APG-III	Electronics and Communication	9.5	1	6	16.5	
Nagapushpa K.P	M.Tech (Ph.D)	APG-II	VLSI and Embedded System	0	8	11	19	
Sapna Kumari .C	M.Tech (Ph.D)	APG-III	VLSI and Embedded System	0	6	10	16	
Asha C.N	M.Tech (Ph.D)	APG-II	VLSI and Embedded System	0	0	10	10	
Vasanth Kumar T.R	M.Tech (Ph.D)	APG-III	Digital Communication	0	4	8	12	

Name	Qualification	Designation	Specialization	No. of years of Experience				No. of Ph.D Students guided in the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
Sumalatha.S	M.Tech (Ph.D)	APG	VLSI and Embedded System	0	2	7	9	
Sandeep Kumar K	M E (Ph.D)	APG III	Electronics and Communication Engg	0	2	6	8	
Sagar T D	M.Tech (Ph.D)	APG-III	VLSI and Embedded System	0	0	1.5	1.5	
Shashi Kumar	M.Tech (Ph.D)	APG-III	VLSI and Embedded System	1.5	0	2.5	4	
Veena Sanathkumar	M.Tech (Ph.D)	APG-II	VLSI and Embedded System	0.5	9.5	2	12	
Priyanka K C	M.Tech	APG-III	VLSI and Embedded System	2	0	0.75	2.75	
Lavanya P	M.Tech	APG-III	Electronics	2	0	0.25	2.25	
Devasis Pradhan	M.Tech	APG-III	Electronics systems and Communication	0	9	0.25	9.25	

11.   List of senior visiting faculty

Name	Qualification	Subject handled
Vivek	MBA	Management and Entrepreneurship

12.   Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty   Nil

13.   Student -Teacher Ratio (programme wise)
UG: 20:1
PG: 12: 1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Details	Sanctioned	Filled
Administrative Staff	01	01
Lab Instructors	05	05

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

Qualifications	No of faculty
DSc/D Litt	-
Ph.D	3
M.Phil	-
PG	21

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received**

Name of Faculty	National Agencies Name	Year of funding	No of Faculty	International Agency Name	Year of funding
Rajeswari	VGST	2015-16	2	-	2016

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received**

Name of the project	Funding agency	Year of Funding	Grant Received in Rs.
Development of Automatic Weed Detection and Herbicide Spraying Control in Horticulture Plantation	VGST	2015-16	2,000,000/-
GPS based Land survey system using QUAD copter unmanned Aerial vehicle(UAV)	KSCST	2013-14	6,000/-

Name of the project	Funding agency	Year of Funding	Grant Received in Rs.
Smart centralized E-garbage system	KSCST	2013-14	6,500/-
Smart tollgate System	KSCST	2013-14	5,500/-
A Smart Wireless Attendance Monitoring System	KSCST	2014-15	6000/-
Farmbot – Small scale, Low Cost Farming Automation System	KSCST	2015-16	5,000/-
Smart arm Autonomous Low cost Device for smart Agriculture	KSCST	2016-17	7,500/-

18.   Research Centre /facility recognized by the University: Yes

RandD Centre recognized by VTU – 2010

19.   Publications:

a) Publication per faculty

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

a) Publications by Students

Name of the Students	No of Publications		No. of Books with publication details			Citation Index	SNIP	SJR	Impact factor	h index
	Nat	Int Nat	Chapter	Edited	Authored					
Vinesh		1								
Uday M	1									
Sangeeta Reddy	1									
Yogeesh H.R	1									
Mohamad Kareem		1								
Kusum Singh	1									
Premkumar E		1								

Name of the Students	No of Publications		No. of Books with publication details			Citation Index	SNIP	SJR	Impact factor	h index
	Nat	Int Nat	Chapter	Edited	Authored					
Shivarajkumar	1									
Suma C	1									
Shilpashree		1								
Chndra naik	1									
Shwetha		1								
Nethravati	1									
Sharanabasavaraju	1									
Pratibha	1									
Shilpa	1									
Masum	1									
Santhosh	1									
Shilpa	1									
Pavan T V	1									
Ananda	1									
Basavaraj Raygol	1									
Sandeep V	1									
Santosh B	1									
Vedavathy	1									
Satish V V	1									
Chandranayaka	1									
Prathibha	1									

b) Journals published by Students

Name of the Students	No of Publications		No. of Books with publication details			Citation Index	SNIP	SJR	Impact factor	h index
	Nat	Int Nat	Chapter	Edited	Authored					
Shwetha M		1								
Vinesh		1								
Ashwini C		1								
Ateet Josh		1								
Deepu R		1								
Pavan T V		1								
Bhagya B O		1								
Shilpashree B R		1								

20. Areas of consultancy and income generated:

Name of Faculty	Area	Income generated
Rajeswari	Laboratory Course for AMIE students	1,00,000/year

21. Faculty as members in
a) National committees b) International Committees c) Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
Maheshappa H.D	Senate Member, RRC Member	VTU	Calicut Univ.		
Rajeswari	BOE				MSRIT
Sujatha B M	BOE				Bangalore Univ.

22. Student Projects

a) Percentage of students who have done in-house projects including inter departmental / programme

Particulars	2013-2014	%	2014-2015	%	2015-2016	%
No of Students	129 (29 Projects)		136 (36 Projects)		134 (38 projects)	
No of in-house projects	27	93	31	86	32	84
No of Inter department Projects	0		0		0	

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Particulars	2013-2014	%	2014-2015	%	2015-2016	%
No of Students	129 (29 Projects)		136 (36 Projects)		134 (38 projects)	
No of Projects in R and D Labs	0		0		1	3
No of Projects in Industry	2	7	5	14	5	13

23. Awards / Recognitions received by faculty and students

Faculty			
Name	Award/Recognition	Agency	Year
Sevugarajan S	Research Excellence	FIU	2015
Sandeep Kumar K	Certificate of Appreciation	Texas Instruments	2015

Students				
Name of the Student	Name of the Event	Date	Place	Prizes won (if any)
Mritunjay Garain, Mohammed Zama, Lachhmi Prasad Sah, Niketa Kumari, Ayushi Simon	Technophilia – IURL	30/9/2013	MT AIT	I Prize
Premkumar E	ISTE Convention	12/10/2013	AMC, Bangalore	Best Student Award
Gaurav R and Deepak J	KSCST State Level Exhibition	Aug 2014	KLE, Belgaum	Best Student Project
Sangeeta Reddy	National level student technical paper presentation contest	28/3/2014	STJ institute of Technology, Ranebennur	2nd Prize
Lacchmiprasad, Mrityunjay Garain, Mohammed Zama, Ayushi Simon	Indo- US Robo League 2014	22/3/2014 and 23/3/2014	IIT Bombay.	2nd Prize
Priyanka, Krishnakanth, Sourabh, Isa Ahamad Aldoseri	Tryst, IIT Delhi	27/2/2015- 2/3/2015	IIT,Delhi	I Prize

Sports Achievements				
Name of the Students	Date	Name of the event	Name of the sports participated	Prizes won (if any)
Somashekhar B K	2013	VTU Volleyball Bangalore North Zone	Volleyball	II Place
Vikas Kumar	2014	State Level Softball Tournament	Softball	I Place
Mahalakshmi and Team	2014	Inter Collegiate Interzone Tournament	Softball	III Place
Pavan S	2014	Bangalore Northzone Table Tennis	Table Tennis	I Place

Name of the Students	Date	Name of the event	Name of the sports participated	Prizes won (if any)
Charan V P	2014	Bangalore Northzone Table Tennis	Table Tennis	I Place
	2014	Southzone Table Tennis	Table Tennis	III Place
	2014	All India Inter University Competition	Table Tennis	IV Place
Mahalaxmi G	2015	VTU Intercolliate Womens Softball Tournament	Softball	I Place
Sushmitha Bhat	2015	VTU Intercolliate Womens Handball Tournament	Handball	III Place
Charan V P	2015	VTU Northzone Table Tennis	Table Tennis	II Place
	2016	Karnataka State ranking Table Tennis Tournament	Mens Single Table Tennis	II Place
	2016	VTU North Zone Table Tennis	Mens Single Table Tennis	I Place
	2016	VTU Internzone Table Tennis	Mens Table Tennis	III Place
	2017	Karnataka State Olympics Table Tennis	Mens Single and Double Table Tennis	II Place III Place
	3/3/2017-6/3/2017	Kreedotsav (Sports festival)	Table Tennis	Best Player
	3/3/2017-6/3/2017	Kreedotsav –Mukherjee Memorial Tournament	Table Tennis	I Place
	9/2/2017-10/2/2017	Karnataka State Olympics - 2017, Dharwad	Table Tennis	Sliver in Singles +Bronze in doubles
	2016	VTU Interzone Table Tennis-Tumkur	Mens (College representation) Table Tennis	III Place
	2016	Karnataka State Ranking Table Tennis Tournament	Mens Single Table Tennis	II Place

24. List of eminent academicians and scientists / visitors to the department

Name	Designation	Date of visit	Activity
Anandi Giridharan	Principal Research Scientist, IISC, Bengaluru	5/4/2017	Technical talk

Name	Designation	Date of visit	Activity
B.A. Patil	Director – R and D Think and Ink Sahakar Nagar Bangalore	13/3/2017	Technical talk
P.Vijay Kumar	Professor, ECE, IISc	26/04/2016	Technical talk
Jaganath R	Team Lead, DNAE, UK ltd.	11/03/2016	Technical talk
Nagabhushan G K	Technical Head, Prevataste Solutions	26/8/2016	Technical talk
Revansiddappa P.H	Technical Architect, ACE Designers	21/05/2015	Technical talk
Akshay Pai	Design Engineer, CPH	29/01/2015	Technical talk
Sangeetha Srivatsava	Senior Research Staff, CRL, Bangalore	15/9/2015	Technical talk
Santhosh Kumar A	Senior Research Staff	15/9/2015	Technical talk
Damodar Kadaba	Senior Research Staff	15/9/2015	Technical talk
Naveen Namboodiri	Manager, Corporate Communication td.	15/9/2015	Technical talk
Ashish Kansal	Manager, BEL	15/09/2015	Technical talk
C Sashidhar	Professor	21/10/2014	Technical talk
Subhash Rao	Delivery Manager, SASKIN	07/08/2014	Technical talk
Yoganand Jeppu	Senior Manager, MOOG India	26/07/2014	Technical talk
Hariprasad S.A	Professor	15/05/2014	Technical talk
Guru Murthy J.D	Managing Director, Mobinus Technologies	13/03/2014	Technical talk
Srinivas Kumar K.S	Project Engineer Wizardry Designs pvt. Ltd.	22/02/2014	Technical talk
Ganga Prasad G.L	CDAC	22/02/2014	Technical talk
S.Saleem Ahmed	Professor, IISc	22/02/2014	Technical talk
C.Suresh	Project Engineer, I2R Design	22/02/2014	Technical talk

Name	Designation	Date of visit	Activity
Subhash Bera	Team Lead, Tektronics	22/02/2014	Technical talk
Suresh S Navanda	Professor, IISc	21/02/2014	Technical talk
Mamata N Rao	NID, Bangalore	21/02/2014	Technical talk
Jagriti P Galphade	NID, Bangalore	21/02/2014	Technical talk
Nagaraj B.G	Professor, SIT	24/01/2014	Technical talk
Chandrashekar M Patil	Professor, VVCE, Mysore	24/01/2014	Technical talk
Purohit Shrinivas Acharya	Professor, SIT	24/01/2014	Technical talk
Kausik Nanda	CDAC	22/02/2014	Technical talk
N.Narasimha Swamy	Design Engineer	20/01/2014	Technical talk
Yoganand Jeppu	Senior Manager, MOOG India	02/08/2013	Technical talk
Satish Kumar	Design Engineer, MOOG India	02/08/2013	Technical talk

25. Seminars/ Conferences/Workshops organized and the source of funding
a) National

Name of the Short Term Course / Training / FDP Conducted	Funding Agency	Amount (Rs.)	Duration, Month and Year	No. of participants
In-House FDP- Linear Integrated Circuits and its Applications	AIT	5,000	3 days, 8th Feb 2017-10th Feb 2017	40
Name of the Short Term Course / Training / FDP Conducted	Funding Agency	Amount (Rs.)	Duration, Month and Year	No. of participants
Awareness Workshop on Entrepreneurship	AIT	15,000	3rd April 2017	200
Technocracy	AIT	40,000	25th April-26th April 2016	150
BEL Lecture Series Programme	AIT	5,000	15 Sept. 2015	50

Name of the Short Term Course / Training / FDP Conducted	Funding Agency	Amount (Rs.)	Duration, Month and Year	No. of participants
CONSYS 2014	AIT , MOOG India	15,000	8days, 22 July-28 July 2014	20
Workshop on Latex	AIT	5,000	2day, 24th-25th Jan 2014	40
In house FDP	AIT	5,000	21st-25th July 2014	30
Workshop on product design and innovation	IEEE	15,000	2days, 21-22nd Feb 2014	100
Workshop on Learning Electronics with Arduino and digital Oscillscope	ARDUINO and TeKtronics	5,000	1day, 18th Nov 2013	40
Workshop on Labview and Multisim	AIT	2,000	1day, 2nd Feb 2013	40
National workshop on NS2 and wireless protocol Design	AIT	10,000	1st- 2nd March 2013	50
In house FDP	AIT	5,000	21st-25th Jan 2013	30
CONSYS 2013	AIT, MOOG India	15,000	15th July-2nd Aug 2013	25
Workshop on Analog and digital design using CADENCE	AIT	5,000	24th-25th July 2013	50

b) International

Name of the Short Term Course / Training / FDP Conducted	Funding Agency	Amount (Rs.)	Duration, Month and Year	No. of participants
IEEE Conference ,ITACT 2015	IEEE	3,00,000	2days, 21-22 December 2015	100

26. Student profile programme / course wise:

UG : Total intake is 120 students (25% Management seats)

Name of the programme	Applications received	Selected
2013-14	35	30
2014-15	30	26
2015-16	32	27
2016-17	45	33

PG: Total intake is 18 students

Name of the programme	Applications received	Selected
2013-14	7	4
2014-15	2	1
2015-16	1	1

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2013 - 2014			
Electronics and Communication Engineering	60	39.2	0.8
2014 - 2015			
Electronics and Communication Engineering	55.2	42.9	1.75
2015 - 2016			
Electronics and Communication Engineering	59.6	35.9	4.38
2016 - 2017			
Electronics and Communication Engineering	54.6	42	3.36

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	GATE	Civil services	Defense services	Total
2013-14	1		1	2
2014-15	1			1
2015-16	4			4
2016-17				

29. Student progression

Student progression	Against % enrolled
UG to PG	
2015-16	7
2014-15	7
2013-14	6
PG to Ph.D.	
2015-16	1

Placement Details

Academic Year	No. of Students	No. of Eligible Students	Number of Companies Visited	Number of UG Students Placed	Number of PG Students Placed
2016 - 2017	128	69	9	42	0
2015 – 2016	135	85	10	56	1
2014 – 2015	138	96	13	53	2
2013 – 2014	99	76	12	36	1

Progression in the Department (Based on First year admission)

Year	Intake	Year1	Year2	Year3	Year4	% Year 2	% Year3	% Year4
2012-13	120	118	107	100	74	91	85	63
2013-14	120	125	115	93	87	92	74	70
2014-15	120	114	97	83		85	73	
2015-16	120	114	99			87		
2016-17	120	119						

- Percentage based on first year admission

30. Details of Infrastructural facilities

a) Library**:** Department library is available.
1. Space 40 Sq.Mts
2. Number of books: 750 nos.
3. Project reports (UG students): 250 no.s
4. Project reports (PG students): 56 no.s

b) Internet facilities for staff and students:
Broad band connectivity of
1. 120Mbps – Railtel
2. 10Mbps – BSNL
3. Campus is enabled with Wi-Fi facility

c) Total number of class rooms with ICT facility:
1. UG: 7 class rooms (73 SqMts)
2. PG: 2 class rooms (73 SqMts)

d) Students' laboratories
1. Analog Electronics Lab (88 Sq Mts)
2. Digital Electronics lab(88 Sq Mts)
3. Communication lab (88 Sq Mts)
4. Microwaves lab (88 Sq Mts)
5. VLSI lab (88 Sq Mts)
6. DSP and Microprocessor lab (88 Sq Mts)

e) Research laboratories - R and D Laboratory (40 Sq Mts)

31. **Number of students receiving financial assistance from college, university, government or other agencies**

Year	No. of Students	University	Social welfare			college	Other
			SC	ST	OBC		
2015 - 2016	528		33	4	119	29	4-ICCR 2-KMDC
2014 - 2015	570		41	8	97	1	1-Defence, 1-JandK 4-KMDC
2013 - 2014	531		40	8	77	14	3-KMDC

32. **Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

Date	Activity	Resource person	No of participants
24/7/2013 to 25/7/2013	Workshop on Analog and Digital Design using Cadence	Mr Yatheesh H G, Senior Analog Verification Engineer-II at Microchip Technology. Kishan, Technical Coordinator, Cadence Design Systems	50
18/11/2013	Workshop on Learning Electronics with Arduino and Digital Oscillscope	Mr Arun Dutta Director, Tektronics, Bangalore	40
24/01/2014 and 25/01/2014	Workshop on Latex	Dr Chandrashekhar patil Associate Professor, VVCE, Mysuru Prof Nagraju B.G, Associate Professor GMIT, Davanageri Purohit Srinivasacharya, Associate Professor, SIT, Tumkur	40
21/02/2014 and 22/02/2014	Workshop on Product Design and Innovation	A Achutha Rao Former Centre Head, NID R and D Campus Bangalore	100
17/6/2014	Technical Talk on " IPR Awareness and Management"	Dr H R Mahadevaswami Applied Invention private limited	100
22/07/2014 to 28/07/2014	Consys 2014	Jeppu Yogananda Senior Systems Specialist MOOG INDIA	20
15/09/2015	Corporate Presentation on BEL	Ashish Kansal, BEL	104

Date	Activity	Resource person	No of participants
15/09/2015	Insight And Motivation on Embedded Computing Technologies	Sangeetha Srivastava, BEL	104
15/09/2015	Avenues of Image Processing Applications.	Santosh Kumar BEL	104
15/09/2015	Talk on Radar Signal Processing	Damodar Kadaba BEL	104
11/03/2016	Seminar on "Career Awareness In Embedded System Design".	Mr Arun Mathais, Asst Manager Training, Sandeepani School of Embedded system Design	90
11/03/2016	Seminar on "Introduction to VLSI Design and CMOS Analog Design Flow".	Jaganath, Design Engineer, DNAE.	90
25/04/2016	Technical Talk on "Error-Correcting Codes for Big Data"	P. Vijay Kumar, Professor, ECE, IISc	120
26/08/2016	Technical Talk on Advances in Electronics and Communication	Mr Nagabhushan G K NichePro Technologies	110
22/2/2017	Seminar on "Career Awareness in Embedded System Design and VLSI"	Niharika P Asst Manager Training, Sandeepani School of Embedded system Design	55
13/03/2017	" Technical Excellence and Leadership Mantra by Sir M.V "	Prof B.A. Patil Director (RandD) of Think and Ink Education and Research Foundation	80
5/4/2017	"Multimedia Applications"	Anandi Giridharan Senior Scientific Officer, Dept. of ECE, IISC	85

33.   Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	06	Yes	Yes	Yes	Yes	

34.   Participation in Institutional Social Responsibility (ISR) and Extension activities

Date	Activity	No of Participants
18/04/2013	Blood donation	400
26/3/2014	Rain water harvesting	50
26/3/2014	Good habits and diabetics	50
26/3/2014	Awareness on Cancer and precaution	40

35.   SWOC analysis of the department and Future plans

Strength

1. Qualified faculty members with diversified skill set committed to academics, research and lifelong learning.
2. Learning environment for students with very good infrastructure facilities.
3. Well established institute/industry interaction to provide industrial exposure to students.

Weakness

1. Research orientation in terms of bringing in external funding and consultancy.
2. Interdisciplinary interaction with other departments within the campus.

Opportunities

1. Exploring the possibilities of collaboration with industry and research institutes through value added courses.
2. Utilization of open source software and hardware.
3. Scope for creation of research and development opportunities in campus.

Challenges

1. Providing placement and better career opportunities to all the students.
2. Fast changes in technology development in communication engineering enforce to upgrade knowledge/facilities regularly.

Electrical and Electronics Engineering

1. **Name of the department** **:** Electrical and Electronics Engineering

2. **Year of Establishment** **:** 2004

3. **Names of Programmes / Courses offered:**

UG Electrical and Electronics Engineering	PG Power Systems Engineering	Ph.D/ Msc. (Engg): Electrical and Electronics Research Center

4. **Names of Interdisciplinary courses and the departments/units involved:** Nil

5. **Annual/ semester/choice based credit system (programme wise) Semester Based System (Non-CBCS)**

> **BE** I-IV sem CBCS
> V-VIII sem Semester scheme
> **M.Tech** I-II sem CBCS
> III-IV sem Semester scheme

.

6. **Participation of the department in the courses offered by other departments:** Nil

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil

8. **Details of courses/programmes discontinued (if any) with reasons:** Nil

9. **Number of teaching posts**

	Sanctioned	Filled
Professors	03	02
Associate Professors	05	01
Asst. Professors	16	21

10.   Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D.   / M. Phil. Etc.,)

Name of the Staff	Qualification	Designation	Specialization	No. of Years of Experience				No. of Ph.D.Students guided for the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
R.Vivekananda	M.E.,	and Head	Power Systems		35	11	46	
Shivakumar Aradhya	M.E.,PhD	Professor	High Voltage Engineering	33	1.5	1.5	36	06
Lekshmi M	M.Tech., (Ph.D)	Assco. Professor	Electrical Machine	02	02	16	20	
Shivakumar Swamy.R	M.Tech (Ph.D)	APG. I	Electrical Energy System	04	11	5	20	
Lakshmikanth Reddy V	M.Tech (Ph.D)	APG I	VLSI Design and Embedded Systems and MEMS	03	03	10	16	
Kusumadevi G H	M.Tech (Ph.D)	APG II	Power Systems			9.5	9.5	
Sunitha N S	M.Tech (Ph.D)	APG II	Computer Aided Industrial			9.5	9.5	
H .Nagesh	M.E (Ph.D)	APG II	Power Energy System	01	08	5.5	14.5	
Sunil Kumar.A.V	M.Tech, MBA (Ph.D)	APG III	Power Systems	0	01	05	06	
Sushma S Kini	M.Tech (Ph.D)	APG III	Power Systems		7	05	12	
Dayananda.L.N	M.Tech (Ph.D)	APG III	Microelectronics and control systems		01	04	05	
Rekha . C.M	M.Tech (Ph.D)	APG III	Power And Energy Systems	4.5	03	04	11.5	

Name of the Staff	Qualification	Designation	Specialization	No. of Years of Experience				No. of Ph.D.Students guided for the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
Kesari Hanumanthu.	M.Tech	APG III	Power Electronics	0	03	04	07	
Harshavardhan Vijay Kulkarni	M.Tech	APG III	Power and Energy Systems	01	04	03	08	
Hari Babu	M.Tech	APG III	Power Electronics and Electrical		04	03	08	
Anzum	M.Tech (Ph.D)	APG III	Power Systems	0	0	3.5	3.5	
Shiva Kumar K S	M.Tech	APG III	Power Systems		1	1.5	3.5	
Shreyas Karnick	M.Tech	APG III	Power Systems			0.5	0.5	
Aruna.M	M.Tech (Ph. D)	APGII	Power Systems	2	3	8	13	
Karthik.S	M.Tech	APG III	VLSI and Embedded System	0.6		0.1	0.8	
Reshmi.KN	M.Tech	APG III	Power System	6		0.5	6.5	
Surendranath Reddy	M.Tech	APG III	Power Systems		7		7	
Gurushant Koulagi	M.Tech	APG III	Energy systems					
Chaitra Naidu S	M.Tech	APG III	Power Electronics					

11.   List of senior visiting faculty

Name	Qualification	Subject handled
Vivek Rajapadmanabhan	MBA	Management and Entrepreneurship

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty**   Nil

13. **Student -Teacher Ratio (programme wise)**

         UG Teacher Ratio   : 20:1

         PG Teacher Ratio   : 12:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Category	Sanctioned	Filled
Technical Staff	05	03
Administrative Staff	01	01

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

Sl No.	No of faculty
DSc/D Litt	Nil
Ph.D	01
M.Phil	Nil
PG	23

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received**   Nil

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received**

Name of the project	Funding agency	Year of Funding	Grant received in RS
Experimental Study Of The Leakage Current Characteristics Of Porcelain Insulators	KSCST	2014-15	7,000/-
Design And Development Of Rooftop Solar Pv Grid Connected With Net Metering Using Hybrid Inverter With Dual Axis Tracking	KSCST	2016-17	7,500/-

18. **Research Centre /facility recognized by the University**   **Yes/No:** Yes

         R and D Centre recognized by VTU-2012

19. Publications:

a) Publication per faculty

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

b) Publication per student

Name of the faculty	No of Publications		No. of Books with publication details			Citation Index	SNIP	SJR	Impact factor	h index
	Nat	Int Nat	Chapter	Edited	Authored					
Radhika Priyadarshini		3								
B.S.Mohan		2								
Praseeda Ramesh		2								
Sagar.T.M		1								
Pavana R		1								
Ramesh. E		1								
ShreyasKarnick		1								
Reshmi		1								
Swaroop		1								
Swetha K		1								
Sreedevi Sreekumaran		1								
Sowmya		1								

20. Areas of consultancy and income generated

Name of Faculty	Area	Income generated in Rs
R.Vivekananda	Laboratory Courses for AMIE Students	50000/-per year

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
R.Prakash	BOS	VTU			

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
R S Shivakumara Aradhya	National committees Member of Project Evaluation committee of Research Scheme on Power (RSOP) of CPRI, Ministry of power, Govt. of India	Nil	Nil	Nil	Nil
Shankar.C.B	BOE			VTU	

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme

Year	2012-13		2013-14		2014-15		2015-16	
	No's	%	No's	%	No's	%	No's	%
No of Students	74		64		129		128	
No of in-house projects	18	85.7	15	78.9	30	90.9	30	90.9
No of Inter dept projects	2	9.5	3	15.7	2	6.03	2	6.03

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Year	2012-13		2013-14		2014-15		2015-16	
	No's	%	No's	%	No's	%	No's	%
No of Projects in R and D Labs								
No of Projects in Industry	1	4.7	1	5.2	1	3.03	1	3.03

23. Awards / Recognitions received by faculty and students:

Students			
Name of the Students	Award/Recognition	Agency	Year
Shubham Srivastava	Awarded with bronze medal for his project titled "Dynamic Traffic Control For Emergency Vehicles Using Rfid"	National Design and Research Forum, the Institution of Engineers (India)	2013-14

Name of the Students	Award/Recognition	Agency	Year
Amit Kumar Mishra Akash Mukesh	Won 3rd place with cash prize of Rs.10,000 each along with 32GB pen drive and Telecasted on "DD Podhigai" regional channel of Doordarshan, Tamil Nadu (on 12th January 2014 from 10am-11am).	Meenakshi College for Women, Chennai	2013-14
Amit Kumar Mishra, Akash Mukesh Karthik K.A.(MT)	Won 3rd place and Books from Hachette India Pvt. Ltd, New Delhi, worth Rs.1500 each along with certificate of appreciation and telecasted on "DD Bharti" regional channel of Doordarshan, Karnataka	National Level organized by "Xpress minds" at "RV College of Engineering, Bangalore	2013-14
Amith Kumar Mishra	National level selection	Service selection Board Chennai	2014-15
Amith Kumar Mishra	Valedictorian 2014-15	Acharya Institute of Technology, Bangalore	2014-15
Shristy Singh	7th Rank	VTU, Belgaum	2014-15
Parijatha.R	3rd Rank	VTU, Belgaum	2014-15
Chandana	VTU Throw ball 4th place	VTU, Belgaum	2014-15
Yogendra Pratap Singh	Athletic Participated	VTU, Belgaum	2014-15
Harshitha L	VTU Netball Winners	VTU, Belgaum	2014-15
S Srujana	VTU Netball Winners	VTU, Belgaum	2014-15
Ujjwal Bharti	Handball participated	VTU, Belgaum	2014-15
Adarsh Verma	Handball participated	VTU, Belgaum	2014-15
Keerthna B	VTU Throw ball 4th place	VTU, Belgaum	2014-15
Kumari Jyoti	Kho - Kho Participated	VTU, Belgaum	2014-15
Kruthi J Rao	VTU Netball Winners	VTU, Belgaum	2014-15
Hemalatha I V	VTU Throw ball 4th place	VTU, Belgaum	2014-15
Chandana V	VTU Throw ball 4th place	VTU, Belgaum	2014-15

Name of the Students	Award/Recognition	Agency	Year
Rakshith S	VTU Weight lifting team championship	VTU, Belgaum	2014-15
Lakshminarayana K.S.	VTU Foot ball game participated	VTU, Belgaum	2014-15
Arya V	1st prize and cash reward of Rs.7000 in English debate	National Level Annual Techno Cultural Festival organized by NMIT	2015-16
Kruthi J Rao	Represented Basket Ball VTU in inter University tournament.	SRM University 24-28 Sept. 2015	2015-16
Kruthi J Rao	Net Ball Winners	Chikkodi, Belgaum 5-6/10/2015	2015-16
Shailashree Kalal	Throw Ball Represented College	Nagarjuna Institute of Technology 08th Oct.2015	2015-16
BasavaJyothi	Kho- kho 4th Place	Agadi College of Engineering and Technology, April.2015	2015-16
B Keerthana	Hand Ball 3rd Place	Global college of Engg. 23 – 25th April.2015	2015-16
Yogendra pratap Singh	21Kms Half Marathon (6th Place)	VTU 18th Inter collegiate Athletic Meet (24th to 27th March, 2016 at Sir MVIT Campus)	2015-16
Yogendra Pratap Singh	completed in 2 hrs 42 mns and won the first place at India level and cash reward of Rs.50000/-	42 KM NIRBHAYA MIDNIGHT MARATHON (Bangalore / 30th april.2016)	2015-16

24.   List of eminent academicians and scientists / visitors to the department

Name	Designation	Date of visit	Activity
R Nagaraja	Managing Director, PRDC, Bangalore	27/09/2013	Emerging research areas in Electrical Power Systems
T.S Mohan	Principal Researcher, Ecom Research lab, Education and Research Unit, INFOSYS, Bangalore	27/09/2013	Emerging research areas in Cloud computing and cyber security in power systems
Priya Ranjan Mishra,	PHILIPS Innovation Campus, Manyata Tech Park, bangalore	27/09/2013	Emerging research areas in low voltage DC and micro grid

Name	Designation	Date of visit	Activity
G.R Nagabhushana,	Former chairman, Dept. of High voltage Engg. IISc, Bangalore	28/09/2013	Emerging research areas in High voltage
yashveer Singh,	Research Engineer, Global Research, GE, Bangalore	28/09/2013	Emerging research areas in Power electronics
Faraz Zafer Khan,	Senior Engineer, PRDC, Bangalore	28/09/2013	Emerging research areas in Wide area Monitoring
Bhagwanth Singh,	Proprietor, High Voltage India Pvt. Ltd., Peenya Ist stage, Bangalore	06/09/2014	High voltage Engineering
Usha Rani,	Asst. Engineer, BWSS, Bangalore	15/10/2014	Matrix Convertor
Jayaraman,	National Instruments	06/11/2014	Evolving technology and its impact on teaching learning process
Padma.R	Deputy Manager (Training) -Customer Service Division, Yokogawa India Limited	11/03/2015	"Emerging trends in Process Automation with DCS/PLC and SCADA overview"
N. Vasudev,	Joint Director, CPRI, Bangalore	25/04/2015	"State of art insulators for High voltage transmission system"
Sulochana Reddy	Member of Lions club, Bangalore	19/08/2015	General Science
Shri.C.B.M. Bhooshan	Former Vice president ABB	02/10/2015 03/10/2015	Power System Protection
Mallikarjunappa	Director, CPRI, Bangalore	09/05/2016	Diagnostic testing and Condition assessment of High Voltage Generators in Service
K.R Adishesha	Senior Consultant, TCS, Bangalore	10/05/2016	Overview of communication media in power sector
Anil Kumar Sabaji	M/s TerraServe, No. 37, 3rd Main,1st Block, 3rd phase, Banashankari 3rd Stage Bangalore 560 085	17/09/2016	Solar World
H Jayakumar	Director, Galaxy Earthing Electrodes (P) Ltd,Chennai.	20/09/2016	Power System grounding and Measurements
Shri. T. S. Sathyanaraya Rao,	Former, Executive Engineer, Karnataka Power Transmission Corporation Ltd. Bangalore	30/12/2016	"Systems and Impulse grounding"
Bhaghavan Srinivasan,	Director, Carrier Race Technologies Pvt. Ltd	03/11/2016	Building Automation and Integrated Building Management Systems

25.   Seminars/ Conferences/Workshops organized and the source of funding

a) National

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
Two day Workshop on "Emerging Research Areas in Electrical Engineering"	27/9/2013 to 28/9/2013	PRDC Bangalore and High voltage India, Bangalore	Rs. 20,000/-		95
Personality development for Technical Staff	27/01/2014 to 29/01/2013	Management		Rs. 20,000/-	42

b) International

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
International Conference on Trends in Automation, Communication and Computing Technologies ITACT-15	21/12/2015 and 22/12/2015	Self Supporting	Rs.500000/-	Rs.75000/- from ISRO	50

26.   Student profile programme/course wise:

Name of the Programme	Year	Applications received	Selected
BE(Electrical and Electronics Engineering) M.Tech(Power System Engineering)	2013-14	35 05	16 03
	2014-15	39 06	15 03
	2015-16	28 04	17 02
	2016-17	30 02	19 01

27. Diversity of Students

2012-13			
Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E - Electrical and Electronics Engineering	50.42	47.89	1.68
M. Tech - Power Systems	63.16	31.58	5.26
2013-14			
Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E - Electrical and Electronics Engineering	55.34	41.75	2.91
M. Tech - Power Systems	83.34	16.66	0
2014-15			
Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E - Electrical and Electronics Engineering	62.79	33.72	3.49
M. Tech - Power Systems	94.45	5.55	0
2015-16			
Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E - Electrical and Electronics Engineering	57.83	34.94	7.23
M. Tech - Power Systems	70.58	17.65	11.77

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Competitive Exam	Year	No	Year	No	Year	No	Total
GATE	2013-2014	4	2014-2015	4	2015-2016	5	13
Defense services	2013-2014		2014-2015	1	2015-2016	1	2

29. Student progression

Student progression	Against % enrolled 2012-13	Against % enrolled 2013-14	Against % enrolled 2014-15	Against % enrolled 2015-16
UG to PG	13.16	3.12	4.61	3.12
PG to Ph.D.	5.26			
Employed				
Campus selection	9	12	36	52
Other than campus recruitment	40	42	35	30
Entrepreneurship/Self-employment	3	3	3	2

Progression in the Department (Based on First year admission)

No/year	Intake	Year1	Year2 (Regular+LA)	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2012-13	120+24	119	106+20	95+18	92+16	89.08	79.83	77.31
2013-14	120+24	105	89+22	76+20	76+20	84.76	72.38	72.38
2014-15	120+24	88	77+27	75+26		87.50	85.23	
2015-16	120+24	85	76+56			89.41		
2016-17	120+24	82	76+56					

- Percentage based on first year admission

30. Details of Infrastructural facilities

a) Departmental Library
1. Volume   :   743
2. Journals   :   12
3. Project Reports :   357

b) Internet facilities for Staff and Students
Broad band connectivity of
1. 120Mbps – Railtel
2. 10Mbps – BSNL
3. Campus is enabled with Wi-Fi facility

c) **Class rooms with ICT facility** : 08 Class rooms each of 80 Sq.m

d) **Laboratories** : **06** 02 Labs 90 Sq. m each, 03 Labs 80 Sq. m each

01 Lab 112 Sq. m

1. Electrical Machines Lab I
2. Electrical Machines Lab II
3. Analog Electronics Lab
4. Digital Electronics Lab
5. Power System Engineering Lab
6. High Voltage Lab

31. Number of students receiving financial assistance from college, university, Government or other agencies

Academic Year	No of Students	College	University	Social welfare			Other (Defense)
				SC / ST	OBC	KMDC	
2013 - 2014	124			40	81	2	1
2014 - 2015	151	6		39	107	5	0
2015 - 2016	178	3		44	130	4	0

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Date	Activity	Resource person	No of participants
27/09/2013	Emerging research areas in Electrical Power Systems	R Nagaraja, Managing Director, PRDC, bangalore	65
27/09/2013	Emerging research areas in Cloud computing and cyber security in power systems	T.S Mohan, Principal Researcher, Ecom Research lab, Education and Research Unit, INFOSYS, Bangalor	55
27/09/2013	Emerging research areas in low voltage DC and micro grid	Priya Ranjan Mishra, PHILIPS Innovation Campus, Manyata Tech Park, bangalore	45
28/09/2013	Emerging research areas in High voltage	G.R Nagabhushana, Former chairman, Dept. of High voltage Engg. IISc, Bangalore	50
28/09/2013	Emerging research areas in Power electronics	yashveer Singh, Research Engineer, Global Research, GE, Bangalore	55
28/09/2013	Emerging research areas in Wide area Monitoring	Faraz Zafer Khan, Senior Engineer, PRDC, Bangalore	50

Date	Activity	Resource person	No of participants
12/10/2013	Software Industry Outlook	Ramachandra,Infosys	45
27/01/2014 28/01/2014	Behavioral Science	Gururaj Urs, AIEFL, QUACAI Head, ES to chairman, Acharya Institutes	55
27/01/2014 28/01/2014	Key aspects in Computers	Ravikiran Rao, Anandraj, Asst Professor, EEE Dept, Acharya Institute of Technology	60
29/01/2014	Lab Handling Techniques	manjunathnTN, Associate Professor, Dept of ISE, Acharya institute of Technology	35
29/01/2014	Personality Development	Iqbal Ahmed, Deputy Director, Acharya Institutes	70
29/01/2014	English Communication	Umesh, Asst. Professor, AIEFL, Acharya institutes	55
22/02/2014	How to face Interviews	Vinay, Marketing Engineer, M/s. Cromotone and Greaves, Bangalore	40
06/09/2014	High voltage Engineering	Bhagwanth Singh, Proprietor, High Voltage India Pvt. Ltd., Peenya Ist stage, Bangalore	80
15/10/2014	Matrix Convertor	Usha Rani, Asst. Engineer, BWSS, Bangalore	45
06/11/2014	Evolving technology and its impact on teaching learning process	Jayaraman, National Instruments	35
06/11/2014	Graphical system design in the circuit engineering branches.	Jayaraman, National Instruments	35
06/11/2014	Graphical system design in automation engineering industry	Jayaraman, National Instruments	35
11/03/2015	"Emerging trends in Process Automation with DCS/PLC and SCADA overview"	Padma.R, Deputy Manager (Training) -Customer Service Division, Yokogawa India Limited	60
19/08/2015	General Science	Sulochana Reddy, Member of Lions club, Bangalore	55
25/04/2015	"State of art insulators for High voltage transmission system"	N. Vasudev, Joint Director, CPRI, Bangalore	70
02/10/2015 03/10/2015	Power System Protection	Shri.C.B.M. Bhooshan	65
12/09/2015	Issues in auto-reclosing of Transmission Lines	R.S. Shivakumara Aradhya, Professor, EEE Department, AIT	50

Date	Activity	Resource person	No of participants
09/05/2016	Diagnostic testing and Condition assessment of High Voltage Generators in Service	Mallikarjunappa, Director, CPRI, Bangalore	45
10/05/2016	Overview of communication media in power sector	K.R Adishesha, Senior Consultant, TCS, Bangalore	45
17/09/2016	Solar World	Anil Kumar Sabaji, M/s TerraServe, No. 37, 3rd Main,1st Block, 3rd phase, Banashankari 3rd Stage Bangalore 560 085	40
20/09/2016	Power System grounding and Measurements	H Jayakumar, Director, Galaxy Earthing Electrodes (P) Ltd, Chennai.	80
29/12/2016 30/12/2016	Importance of Grounding in Power Systems	H Jayakumar, Director, Galaxy Earthing Electrodes (P) Ltd, Chennai.	80
30/12/2016	"Systems and Impulse grounding"	Shri. T. S. Sathyanaraya Rao, Former, Executive Engineer, Karnataka Power Transmission Corporation Ltd.Bangalore	65
30/12/2016	Safety at working Environment	G T N Babu, Head, Facilities and Maintenance, Acharya Institute of Technology, Bengaluru.	65
03/11/2016	Building Automation and Integrated Building Management Systems	Bhaghavan Srinivasan, Director, Carrier Race Technologies Pvt. Ltd	65

33. Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	Yes	Yes	Yes	Nil	Nil	Hobby projects Industrial visits

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities**

Date	Activity	No of Participants
19/08/2015	Blood Donation Camp	152
01/04/2017 to 07/04/2017	NSS CAMP	01
09/04/2017 to 15/04/2017	Social activity	03

35. **SWOC analysis of the department and Future plans**

Strengths

1. Faculties are committed in research activities and believe in lifelong learning
2. Excellent Infrastructure for teaching and learning
3. Permanent affiliation by VTU

Weaknesses

1. Interaction with industry
2. Student teacher ratio
3. Getting Funding projects

Opportunities

1. Starting of IEEE student chapter
2. MOU's with reputed industries
3. Organizing an international conference

Challenges

1. Placement for all the students and employability particularly in core industries
2. Achieving100% success rate of the students
3. Getting very good ranking students through CET and COMED K

Future Plans

1. Planned to start one more new PG Programme in Power Electronics
2. Establish Well equipped RandD center in the department
3. Department is planned to have MOUs with industries / Institutes and research centers for joint research and development
4. Planned to establish Energy park.

Information Science and Engineering

1. **Name of the department:**   Information Science and Engineering

2. **Year of Establishment:**   2000

3. **Namesof Programmes/Courses offered :**

UG	PG	Ph.D./ MSc. (Engg.)
BE - Information Science &Engineering	1. M.Tech. in Computer Network Engineering. 2. M.Tech. in Cyber Forensic and Information Security	VTU Research Centre of Information Science and Engineering

4. **Names of Inter disciplinary courses and the departments/units involved:**

Nil

5. **Annual/semester/choice based credit system (programme wise)**

| **Under Graduate** | I – IV semester
 V-VIII semester | Choice Based Credit System
 Semester system |

| **Post Graduate** | I – II semester
 III-IV semester | Choice Based Credit System
 Semester system |

6. **Participation of the department in the courses offered by other departments**
         Nil

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
         Nil
8. **Details of courses/programmes discontinued (if any) with reasons**   Nil

9. **Number of Teaching posts**

Designation	Sanctioned	Filled
Professors	04	02
Associate Professors	06	02
Assistant Professors	19	24

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt. /Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided in the last 4 years
C K Marigowda	M.Tech, (Ph.D)	HOD & Assoc. Prof	Information Security	13.5	
Mamatha G	M.Tech, Ph.D	Professor	Wireless Networks	19	1
Suresh Babu	M.E, Ph.D	Professor	Computer Networks	25	6
Mahesh G	M.Tech, (Ph.D)	Assoc. Prof	Wireless Networks	13	
Sudarsanan D	M.Tech , Ph.D)	APG - I	Wireless Networks	19	
UmapathiG R	M.E, (Ph.D)	APG - I	Wireless Sensor Networks	19	
Kala Vishesh	M.Tech	APG - I	Computer Science and Engineering	11.75	
Srinivas K	M.Tech, (Ph.D)	APG - I	Human Computer Interaction	18	
UshaKumari	M.Tech	APG - II	Computer Science and Engineering	11.25	
Arun K H	M.Tech	APG - II	Computer Science and Engineering	10.5	
Chaitra B	M.Tech	APG-III	Software Engineering	11.75	
Yogesh N	M.Tech	APG-III	Computer Network Engineering	8.75	
Hemantha T D	M.Tech	APG-III	Computer Science and Engineering	9	

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided in the last 4 years
PrathibhaVani P M	M.E, (Ph.D)	APG-III	Wireless Sensor Networks	10	
Chayapathi A R	M.E., (Ph.D)	APG-III	Cloud and Big-Data	8.75	
Gangadharaiah S	M.Tech, (Ph.D)	APG-III	IoT Security	12	
Arpitha N S	M.Tech	APG-III	Computer Network Engineering	4.75	
Mithuna H R	M.E	APG-III	Wireless sensor Networks	5.5	
Sushma T.M	M.Tech	APG-III	Networking and Internet Engineering	8.75	
Prakash B Metre	M.Tech, (Ph.D)	APG-III	Wireless Networks	13	
AkshthaBallal	M.Tech	APG-III	Software Engineering	3.75	
Yatheesh N.G	M.Tech	APG-III	Computer Science and Engineering	2.75	
Chethan M	M.Tech	APG-III	Big Data and data Mining	6	
Kavya Shree D	M.Tech	APG-III	Big Data and data Mining	2.5	
Geetha Lakshmi	M.Tech	APG-III	Computer Science and Engineering	1	
Gayatri R. Sorganvi	M.Tech	APG-III	Computer Science and Engineering	0	
ChanchalAgarwal	M.Tech	APG-III	Computer Science and Engineering	3	
Mouna N.	M.Tech	APG-III	Computer Science and Engineering	1	

11.   List of senior visiting faculty: Nil

12.   Percentage of lectures delivered and practical classes handled (programmewise) by temporary faculty: Nil

13.   Student-Teacher Ratio (programme wise)
Under Graduate   : 20:1
Post Graduate   : 12:1

14.   Number of academic support staff (technical) and administrative staff; sanctioned and filled

Supporting Staff	Sanctioned	Filled
Administrative Staff	1	1
Assistant Manager-IT	1	1
System Engineer	1	1
Technical Lead	1	1
Trainee	1	1
Lab Instructors	4	4
Programmer	4	0
Assistants	1	1
Attenders	3	3

15.   Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

Qualification	No. of Faculty
D.Litt	Nil
Ph.D	02
M.Phil	Nil
PG	26

16.   Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR,etc.and total grants received

Project	Funding agency	Amount in Rs.
2013-2014		
A Multi-Information Localization Algorithm in Wireless Sensor Networks and Its application in Medical Monitoring Systems	KSCST	5000/-
2015-2016		
Simple Smart Connected City Apps	KSCST	3000/-
Regifeed Instant Feedback System with Smart Registration Process	KSCST	3000/-
2016-2017		
Automated Toll Payment System	KSCST	4000/-
	Total	15,000/-

18. Research Centre/facility recognized by the University

Visvesvaraya Technological University (VTU)

Ph.D&M.Sc (Engg) by Research

19. Publications by
a) faculty:

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

b) Students

Name of the Students	Number of Publications
Geetha H S	1
Pallavi H	1
Navya P	1
UrmaHaldar	1
Vishnu B	2
Hamsa C	2
Clement Almeida	1
Harshitha K	2
Divya M	1
Chimayee	1

Name of the Students	Number of Publications
Swathi C	1
SaurabhButtan	1
Nikhil P Naik	1
Manojkumar S	1
Ajo M Varghese	1
Surabhi Shankar	1
Vishnavi B	1
Aadarsa V R Ram	1
Debanjan C	1
Niranjan K	1
S.P Goutham	1
shreyas K	1
ManjunathShingadi	1
Sandeep Bhandari	1
Karthik C	1
Roshan S,	1
Thilak N	1
Amit Kumar	1
Kiran Gowda H N	1
Kusuma M	1
Udaya Kumar C	1
Megha J	1
AkshathaPoojar	1
Spurthi Raj	1
Vibha Shree M	1

20.   Areas of consultancy and income generated / If any: Nil

21. **Faculty as members in**
   a) **National committees b) International Committees c) Editorial Boards**

Committee/Board	Name	Year
Editorial Board MemberInformatics Engineering, an International Journal(IEIJ)	C K Marigowda	2013

22. **Student projects**

   a) Percentage of students who have done in-house projects including interdepartmental / programme

In-house Project			
No of Projects	No of students	Year	Percentage of students who have done in-house projects
26	95	2013-2014	95(In-house Projects) + 5 (Industry Project)
28	111	2014-2015	100
24	95	2015-2016	100

   b) Percentage of students placed for projects in organizationsoutside the Institutioni.e.in Research laboratories/Industry/ other agencies

Outside the Institution Project			
No of Projects	No of students	Year	Percentage of students who have done Outside the Institution projects
1	2	2014-2015	2
1	2	2015-2016	2

23. **Awards/Recognitions received by faculty and students**

Name of the Faculty	Event Name	Award/Recognitions
Marigowda C.K	Infosys Pricipal's Meet-16 on 30th March 2016	Best SPOC (Single Point of Contact) in State
	Inspire Faculty Excellence Awards from Infosys Limited,16th May 2014	Silver- Partner Faculty
Satish .S	Inspire Faculty Excellence Awards from Infosys Limited,16th May 2014	Bronze Partner Faculty
Arun K.H	Inspire Faculty Excellence Awards from Infosys Limited,16th May 2014	Bronze Partner Faculty

Name of the Faculty	Event Name	Award/Recognitions
Hemantha.T.D.	Inspire Faculty Excellence Awards from Infosys Limited,16th May 2014	Bronze Partner Faculty
NagarajNaik	Inspire Faculty Excellence Awards from Infosys Limited,16th May 2014	Bronze Partner Faculty

Awards/Recognitions received by students

Name of the Student	Event	Award/ Recognitions
Chimayee, Hamsa C, Harshitha&Swathi C SaurabhButtan	SRISHTI 2015 - Innovation Exchange Competition of projects by final year engineering students	2nd prize
Vishnu B, Nikhil P Naik, Manojkumar S, Ajo M Varghese	SRISHTI 2015 - Innovation Exchange Competition of projects by final year engineering students. -2015	4th prize
Surabhi Shankar & Vishnavi B	SRISHTI 2015 - Innovation Exchange Competition of projects by final year engineering students.	Consolation prize
GyanRaunak	7th Indian Society for Technical Education Student Annual Convention -2013	1st prize
Prabhash Kumar	7th Indian Society for Technical Education Student Annual Convention-Technical Quiz -2013	1st prize
Suhas	7th Indian Society for Technical Education Student Annual Convention-Debugging Contest -2013	1st prize
Srinivas M	7th Indian Society for Technical Education Student Annual Convention-Debugging Contest-2013	3rd prize
Srinivas M	7th Indian Society for Technical Education Student Annual Convention-Animation -2013	1st prize
VivekVardhan	7th Indian Society for Technical Education Student Annual Convention-Aptitude -2013	1st prize
Praveen Kumar	7th Indian Society for Technical Education Student Annual Convention-Aptitude -2013	3rd prize

Name of the Student	Event	Award/ Recognitions
Manasa. R	25th CSI Karnataka Student Convention, Paper Presentation 2013	2ndprize
Mridula S Tunga	25th CSI Karnataka Student Convention, Paper Presentation 2013	2ndprize
Vinayashree H V	VTU Inter Zone Sport Competition,Kho-Kho - 2013	2ndprize
Shirisha K	VTU in All India Inter-University Archery 30 Mtrs Year-2014	1st prize
	VTU in All India Inter-University Archery 50 Mtrs , Year -2015	2nd prize
	All India Inter University Compound Round Archery Championship held at Punjabi University, Punjab held during 22nd January to 26th January 2016	3rd prize
Surabhi Shankar	VTU Zonals-throw ball -2015	4th prize
Swathi C	VTU Zonals-throw ball-2015	4th prize
Debanjan C, Niranjan, S.P.Goutham, Shreyas K	National Level Competition for best project held at Alpha College of Engineering, Bangalore -2016	Consolation Prize
Jay Narayan Das, LunagariyaDivyesh, Shubham Kumar, Shubhashree	State Level Seminar and Project Exhibition was held at BLDE, Helakatti College of Engineering and Technology, Vijayapura, Karnataka -2016	Best and First prize

24. List of eminent academicians and scientists/visitors to the department

2013-2014		
Talk on	Name	Date
Emerging trends in Information Processing	Nagabhushan P, Professor, Mysore University	11/01/13
Software Testing and Quality Assurance	Girish, CEO, Qspiders, Bangalore	22/01/13 To 24/01/13
	GunasekaranVeeraPillai, Competency Head, Testing Services, Wipro Technologies	

Talk on	Name	Date
Software Testing and Quality Assurance	UmakanthKulkarni, Professor, SDMCE, Dharwad	22/01/13 To 24/01/13
	Nagana Gouda S J, VP and Head HR, Synapse India Ltd., Bangalore	
	PrathaapKodancha, Associate Manger, SAP Labs, Bangalore	
Research Methodologies	M K Bhanga, GM, Wipro Technologies, Banglore	30/01/13 To 31/01/13
	C B Akki, Senior Consultant, Wipro Technologies, Bangalore	
Evaluation of Cloud Computing	T S Mohan, Principal Researcher, E&R, Infosys Ltd.,	01/07/13
Cloud Computing Architectures	RavindraDastikop,SDM	02/07/13
Software development in Cloud using open stack cloud	Marimuthu, NITK	02/07/13
Cloud Web Services and SOA	Pradeep,Accenture Services	03/07/13
Eucalyptus	Raghavan, NITK	03/07/13
Migrating enterprise application on cloud	Mahesh G, 4[th]DYmensionteeknocrats	04/07/13
Cloud Computing Services(SaaS,PaaS,IaaS) and Service Providers	Ganesh Prabhakar,TCS,Chennai	05/07/13
Cloud developments	AmithBhati, TCS, Bangalore	05/07/13
Cloud Frameworks and API's	PravinHanchinal, Inspire Gropus	08/07/13
Cloud Security Issues	Sridhar IIITB,Bangalore	09/07/13
Cloud Research Issues and Challenges	Madan Kumar, Infosys Ltd.,	13/07/13
Cloud Computing with Google App	MayurPatil, SDM, Dharwad	19/09/13 to 20/09/13
2014-2015		
Big data and Hadoop Framework	Suner N R, Vice President Accenture, India	28/01/15 to 30/01/15

2015-2016		
Talk on	Name	Date
Overview of Big Data and Hadoop Ecosystem	Anoop Singh, Principal, ETA, Infosys Ltd., Bangalore.	10/09/15
Cloud Computing	AxelAngeli, Leadership for High Performance IT Change Management Founder Logos! Informatik GmbH, Germany	11/09/ 15
GATE introductory seminar	Reginald Raj, from IISc, Bangalore.	18/09/15
Big Data Analytics	Rajeev Agrawal, Department of Computer Systems Technology, North Carolina A&T State University, Greensboro, USA	17/12/15
Awareness of challenges and potential research topics.	Sithu D Sudarshan, ABB Corporate Research, Bangalore	19/12/15
Design and Implementation of Student Centered Learning	DhineshRadhakrishnan, Co-Director of Footsteps and American Society for Engineering Education 1818 N Street N.W. Suite 600	Washington	05/01/16 to 06/01/16
TGMC project by IBM by	Balaji, Trainer, IBM India.	26/02/16
Offerings of IUCEE to faculty	Vedula Krishna, Executive Director, Indo Universal Collaboration for Engineering Education (IUCEE), Professor and Dean Emeritus, University of Massachusetts Lowell, USA	03/08/16
2016-2017		
Offerings of IUCEE to faculty	Vedula Krishna, Executive Director, Indo Universal Collaboration for Engineering Education (IUCEE), Professor and Dean Emeritus, University of Massachusetts Lowell, USA	03/08/16
Creating Value using Business Analytics and Big Data – Perspectives	Dr Murray Scott, Business Information Systems , J.E. Cairnes School of Business & Economics, National University of Ireland Galway	21/02/17

25. Seminars/Conferences/Workshops organized & the source of funding
a) National b) International

Name of the Seminar/Conference /Workshop	Date	Source of Financial Support	National/ International
International Workshop on Emerging Trends in Information Technology	10/01/2013	Acharya Institute of Technology	International

Name of the Seminar/Conference /Workshop	Date	Source of Financial Support	National/ International
Three Day Workshop on Software Testing & Quality Assurance	22/01/2013 to 24/01/2013	Acharya Institute of Technology	National
Two Day workshop on Research Methodologies	30/01/2013 to 31/01/2013	Acharya Institute of Technology	National
AICTE Sponsored Faculty Development Programme on Advances in Cloud Computing	01/07/2013 to 13/07/2013	AICTE, New Delhi.	National
Two Day Workshop on Cloud Computing with Google App	19/09/2013 to 20/09/2013	Acharya Institute of Technology	National
Big Data & Hadoop Framework	28/01/2015 to 30/01/2015	Acharya Institute of Technology	National
Technical Seminar on Overview of Big Data and Hadoop Ecosystem	10/09/2015	Acharya Institute of Technology	National
International Conference on Trends in Automation, Communication and Computing Technologies ITACT-15 (With technical co-sponsorship of IEEE, Bangalore Section)	21/12/2015 to 22/12/2015	Acharya Institute of Technology	International
2 Day FDP on Design and Implementation of Student Centered Learning	05/01/2016 to 06/01/2016	Acharya Institute of Technology	National

26.   Student profile programme /Course wise:

Name of the Programme	Year	Applications received	Selected
BE(Information Science and Engineering) M.Tech(Cyber Forensic and Information Security)	2013-14	55 05	30 03
	2014-15	52 06	31 03
	2015-16	38 02	25 01
	2016-17	46 00	31 00

27. Diversity of Students

Name of the Course ISE	% of students from the same state	% of students from other States	%of students from abroad
2016-2017	51	44	5
2015-2016	57	34	9
2014-2015	69	29	2
2013-2014	55	43	2

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	GATE	Defense services	Others
2015-2016	3	1	

29. Student progression

Student progression	Percentage against enrolled				
UG to PG	7				
PG to M.Phil.	Nil				
PG to Ph.D.	Nil				
Ph.D. to Post-Doctoral	Nil				
Employed	2011	2012	2013	2014	2015
Campus selection	52	48	22	30	83
Other than campus recruitment	2011	2012	2013	2014	2015
	26	32	11	27	
Entrepreneurs	1	1	1	1	1

Progression in the Department (Based on First year admission)

No/year	Intake	Year1	Year2	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2012-13	90	102	131	93	94	89	91	97
2013-14	120	131	109	118	92	88	87	97
2014-15	120	124	133	96	111	73	87	100
2015-16	120	128	120	114	95	88	91	97
2016-17	120	130	136	114	110			

30. **Details of Infrastructural facilities a) Library b) Internet facilities for Staff & Students c) Class rooms with ICT facility d) Laboratories**

Department Library: Area in Sq.M = 16.81
1. Department Library includes 500 Number of Titles and 835 number of volumes
2. Repository of Seminar and Project reports from 2012
3. Seating capacity of 20 Members

Internet Facilities for Staff & Students
Broad band connectivity of
1. 120Mbps – Railtel
2. 10Mbps – BSNL
Campus is enabled with Wi-Fi facility

Class rooms with ICT facility
ICT when integrated into the classrooms has added immense value to the quality of teaching, making it a holistic teaching/ learning experience for the faculties and students.
Some of the innovative teaching methodologies adopted using ICT are:
1. Development of smart classrooms with LCD projector – Use of interactive modules like videos and presentations and visually attractive methods of teaching to make it appealing to students
2. Use of innovative teaching methodologies like Role Plays, Seminars, Team online assignments, Peer learning, etc.
3. Providing resource materials like tutorials, assignments, lecture notes, lab manuals and other relevant materials to the students.

Parameter		Area in Sq.M
Class Room	LH001	7.10 X 11.50 = 81.65
	LH002	7.10 X 11.50 = 81.65
	LH201	7.10 X 10.76 = 76.40
	LH202	7.8 X 7.8=60.86
	LH204	7.10 X 11.75 = 83.43
	LH205	7.10 X 10.76 = 76.40

Laboratories
5 Laboratories in the department and the details stated below:
1. ISE Lab- 002 (Data Structure/OOPS Lab)
2. ISE Lab- 101 (Algorithms & Database Lab)
3. ISE Lab- 102 (Operating system & Networking Lab)
4. ISE Lab- 302 (System Programming &Internet Programming Lab)
5. Electronic Circuits and Logic Design Lab

Labs	Parameter	Area in Sq.M
	ISE-001Laboratory	7.10 X 10.40 = 73.84
	ISE-002 Laboratory	7.10 X 10.40 = 73.84
	ISE-101 Laboratory	7.10 X 10.40 = 73.84
	ISE-102 Laboratory	7.10 X 10.40 = 73.84

31. Number of students receiving financial assistance from college, university, government or other agencies

Scholarship	2012-13	2013-14	2014-15	2015-16	2016-17
Taluk social welfare office [below 2.5 lakh] for SC [UG & PG]	19	21	32	30	20
Taluk social welfare office [below 2.5 lakh] for ST [UG & PG]	3	6		4	2
DTE scholarship [Above 2.5 lakh] for UG[SC/ST]				6	7
OBC Scholarship [UG & PG]-BCM Scholarship	104	101	28	31	
ICCR Scholarship				8	
College	3	2	7	1	

32. Details on student enrichment programmes (special lectures/workshops/ seminars) with external experts

Date	Program	Expert
	2013-2014	
19/09/13 to 20/09/13	Cloud Computing with Google App	MayurPatil, SDM, Dharwad
	2014-2015	
28/01/15 to 30/01/15	Big Data and Hadoop Framework	Sunder N R, Vice President, Accenture India
	2015-2016	
10/09/15	Technical Seminar on "Overview of Big Data and Hadoop Ecosystem"	Anoop Singh, Principal, ETA, Infosys Ltd., Bangalore

Date	Program	Expert
2015-2016		
11/09/15	Talk on "Cloud Computing"	Axel AngeliLogos! Informatik GmbH, Hologramming for SAP & SOA, Project Management for SOA and Cloud, Leadership for Complex SAP Solution
18/09/15	GATE introductory seminar	Reginald Raj, IISc Bangalore
17/12/15	Technical Talk on "BigData Analytics"	Rajeev Agrawal, Professor, Department of Computer Systems Technology, North Carolina A&T State University, Greensboro, USA
19/12/15	Awareness of challenges and potential research topics.	Sithu D Sudarshan
2016-17		
05/01/16 & 06/01/16	Design and Implementation of Student Centered Learning	DhineshRadhakrishnan, Co-Director of Footsteps and American Society for Engineering Education 1818 N Street N.W. Suite 600	Washington
26/02/16	Talk on TGMC project by IBM	Balaji, Trainer, IBM India.
03/08/16	About IUCEE offerings to faculty	Vedula Krishna, Executive Director, Indo Universal Collaboration for Engineering Education (IUCEE), Professor and Dean Emeritus, University of Massachusetts Lowell, USA
05/08/16	Pre Placement Training for Non Eligibility students	Kumar sourabh,Software Engineer,M/s Cognizant, Bangalore. Amit Kumar,Software Engineer, MahaSwamy Software Solution,Bangalore.
16/08/16	Pre Placement Training	Adarsh, Software Engineer,M/s Cognizant, Bangalore
20/08/16	Pre Placement Training	SidharthChhawchharia, Hashedin, Bangalore Naveen Eregowda, LAM

33. Teaching methods adopted to improve student learning

The enthusiastic faculty members of the department aim at delivering an effective classroom experience that is redefined with innovative ideas, implementing effective teaching methods to enrich the knowledge of the students' community.

In principle, all the courses follow lecture method (chalk and board and/or audio-visual aids) providing sufficient time for interaction. In addition to the classroom interactions, following are the other methods of learning experiences provided to the students:

1. Role Plays
2. Team assignments
3. Peer learning
4. Brainstorming
5. Seminars/ workshops
6. Paper presentations/ Group discussions
7. Project work
8. Industrial visit
9. Use of e-resources such as NPTELs, open course ware for better content delivery.
10. Providing open access to Massive Open Online Course (MOOC) via web.
11. Use of online tools such as Moodle for blended learning, flipped classroom, evaluation etc.
12. Internships etc.

34. Participation in Institutional Social Responsibility(ISR) and Extension activities

1. Annual Blood Donation Camp will be conducted in every year
2. Waste Management rally
3. The world human rights day rally
4. Spoken English classes regularly for underprivileged people of the society
5. Skill Development programmes for underprivileged people of the society
6. Plantation
7. Rain Water Harvesting
8. Health (General, Dental, Etc.)
9. Computer Awareness to Govt. School Students
10. Cleanliness With Respect to the Environmental Hazards
11. Parthenium Nirmulane
12. English Speaking Course to Govt. School Students

35. SWOC analysis of the department and Future plans

Strength
1. Effective mentoring system is in place to ensure the academic excellence.
2. Highly Qualified Teaching and Non-Teaching Staff.
3. Engaging with various Industries and Universities for research, training, internship, and projects.
4. Nurturing student competency through MOOC and student forum.

Weakness
1. Cadre ratio.
2. Lack of consultancy and research.
3. Inadequate communication skills of students.

Opportunity
1. Converting students projects into value added or commercial products.
2. Utilization of Alumni network for career guidance.
3. Alignment with Technology Business Incubation (TBI) for promoting entrepreneurship.

Challenges
1. Coping with rapid change in technology, industrial requirements, and improving the employability of the students.
2. Retaining qualified and experienced faculty.
3. Acquire autonomous status to offer need based innovative programmes

Future plans:
1. To organize international conference in association with professional society and industry.
2. To establish an in house company and to provide internship opportunity to students
3. To collaborate with industries and institutions at national and international levels to enhance interdisciplinary research
4. To promote entrepreneur through BOX-AIT Business Incubator

Mechanical Engineering
and
Manufacturing Science and Engineering

1. **Name of the Department**: Mechanical Engineering and Manufacturing engineering

2. **Year of Establishment:** 2002/2013

3. **Names of Programmes/Courses offered:**

Program	Course
UG	(1) Mechanical Engineering
	(2) Manufacturing Science and Engineering
PG	Machine Design
PG	Product Design and Manufacturing
Ph.D	Mechanical Engg
M.Sc(Engg) by research	Mechanical Engg

4. **Names of Interdisciplinary courses and the departments/units involved :** Nil

5. **Annual/semester/choice based credit system (programme wise): Semester Based System (Non-CBCS)**

BE	I-IV sem	CBCS
	V-VIII sem	Semesterscheme
M.Tech	I-II sem	CBCS
	III-IVsem	Semester scheme

6. **Participation of the department in the courses offered by other departments:** Nil

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil

8. **Details of courses/programmes discontinued(if any) with reasons:** Nil

9. **Number of teaching posts:**

	Sanctioned	Filled
Professors	05	04
AssociateProfessors	08	02
Asst.Professors	29	36
Total	42	42

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt./ Ph.D./ M.Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience				No. of Ph.D./M.Phil. Students guided for the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
Mahesha K.	M.E., Ph.D	Professor and HOD	Manufacturing, Materials Engg,		12	6	18	Nil
S.C.Pilli	M.E., Ph.D	Professor	Machine design	1	32.5	1.5	35	5
K. Nagaraju	M.TechPh.D	Professor	production	38		1.5	39.5	
Devarajaiah R. M	M.E., Ph.D	Professor	Machine Design/Polymer Composite Tribology	4	8	9.5	21.5	Nil
Pakkirappa H	M.E., (Ph.D)	Associate Prof	Production Management		13	17	30	Nil
Lokesh G. N.	M.Tech., Ph.D	Associate Professor	Production engineering systems Technology	1	4.5	12	17.5	Nil
Shadakshari R.	M.Tech., (Ph.D)	APG-I	Nano Composites			19	19	Nil
ManjunathaB.	M.E.,(Ph.D)	APG-I	Composite Materials	0.5		13	13.5	Nil
AttelManjunath	M.Tech., Ph.D)	APG-II	Design and Analysis	2	6	8	16	Nil
S Karunakara	M.Tech., (Ph.D)	APG-II	Manufacturing science and engineering		12	4	16	Nil
Praveen.M.P.	M.Tech., Ph.D)	APG-II	Artificial Intelligence, Supply Chain Management	5	5	3	13	Nil
Sachidananda K.B.	M.Tech., Ph.D)	APG-III	Coated Materials		0.5	6	6.5	Nil
Vinod Kumar C.S.	M.Tech., (Ph.D)	APG-III	Production and Manufacturing systems		2	5	7	Nil
BalachandraBingi	M.Tech., Ph.D)	APG-III	Advanced Material Technology		1	4	4.5	Nil

Name	Qualification	Designation	Specialization	Industry	Teaching other than AIT	AIT	Total	No. of Ph.D./M.Phil. Students guided for the last 4 years
Nagaraja K C	M.Tech., Ph.D)	APG-III	Material Science		3	4	7	Nil
Basavaraju	M.E., (Ph.D)	APG-III	Nano composites		2	5	7	Nil
Nagamadhu.	M.Tech., Ph.D)	APG-III	Machine Design	1	3	4	8	Nil
Sunil.B	M.Tech., Ph.D)	APG-III	Machine Design		3.5	2.5	6	Nil
YogendraKumar .S	M.Tech.,	APG-III	Thermal Power Engineering		6	3	9	Nil
Chethan.G.R	M.Tech., Ph.D)	APG-III	Thermal Engineering		3	3	6	Nil
Vijay R B	M.Tech.,	APG-III	Machine Design		3.5	2.5	6	Nil
Shashikala.A	M.Tech.,(Ph.D)	APG-III	Product Design Manufacturing		2.5	3	5.5	Nil
Raju.M.G	M.Tech., (Ph.D)	APG-III	Computer Integrated Manufacturing		2	3	5	Nil
Jayshima.SLN	M.Tech.,(Ph.D)	APG-III	CIM	1	3.5	1.5	6	Nil
SanmanShivaku mar	M.Tech.,(Ph.D)	APG-III	Composite Materials		1	1	2	Nil
Harshih.C	M.Tech	APG-III	CIM	1.5		1	2.5	Nil
Lavakumar.S	M.Tech.	APG-III	Thermal Power Engineering		5	1	6	Nil
Priyanka S Umarji	M.Tech.	APG-III	PEST	5	0.5	1	6.5	Nil

Name	Qualification	Designation	Specialization	No. of Years of Experience				No. of Ph.D./M.Phil. Students guided for the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
Praveen.B.B	M.Tech.	APG-III	Machine Design	3.5		1	4.5	Nil
RichaMishra	M.Tech.	APG-III	Thermal Engineering		3	0.5	3.5	Nil
Shipla.R.S	M.Tech.	APG-III	PDM	1.5	5		6.5	Nil
shashidhar.M.K	M.Tech.	APG-III	CIM	5.5	4.5	0.5	10.5	Nil
Venkata Shiva Reddy	M.Tech., (Ph.D)	APG--III	Manufacturing Science and Engineering		1.6	2.6	4	Nil
ShivadarshanSherugur	M.Tech	APG –III	Manufacturing	1.5				
ManjunathaIyer	M.Tech	APG –III	Manufacturing	3	1			
Ambarish.M	M.Tech	APG –III	Production	5.5	2			
Sharanabasava A.B.	M.Tech	APG –III	CIM	1				
Harsha.B.M	M.Tech	APG –III	Thermal					
Nagesh Kumar R	M.Tech	APG –III	Thermal	4.5				
RakshithGowda D S	M.Tech	APG –III	CI M	0.5				
Chandhan.R.S	M.Tech(Persuing)	APG –III – Identified	Machine Design					
VinodKumar	M.Tech(Persuing)	APG –III – Identified	PDM					

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student-Teacher Ratio (programme wise):

Program	Student Teacher Ratio
UG-BE in Mechanical Engineering/Manufacturing Science and Engineering	20:1
PG-M. Tech in Machine Design	18:1
PG-M. Tech in Product Design and Manufacturing	18:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Category	Sanctioned	Filled
Academic support staff	13	11
Administrative staff	01	01

15. Qualifications of teaching faculty with DSc/D.Litt / Ph.D/ MPhil/ PG.

Sl.No	No. of Faculty
DSc/D Litt	Nil
Ph.D	04
M.Phil	Nil
PG	38

16. Number of faculty with ongoing projects from a)National b)Internationalfunding agencies and grants received:

No of Faculty	National Agencies Name	Year of funding	Status
2	AICTE , RPS	2013	Completed
1	VGST	2013	Ongoing
1	KCST	2014	Completed

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received:

Name of the project	Funding Agency	Year of Funding	Grant Received
Facilities for Research in Material Science and Engineering	VGST (K_FIST)	2013	Rs.40,00,000/-
Studies on Damping Characteristics of Magneto-Mechanical Material Coated Alloys	AICTE (RPS)	2013	Rs.20,00,000/-

Name of the project	Funding Agency	Year of Funding	Grant Received
Pineapple Peeling Machine	KSCST	2014	Rs.9000/-
		Total	6,009,000

18. Research Centre/facility recognized by the University:

State recognition :	Approved R and D for Mechanical Engineering Research from VTU, Belagavi.in 2008-09

19. Publications:

a) Publication per faculty

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. Areas of consultancy and income generated:

Name of Faculties	Area	Income Generated	Year
Shadakshari.R	Material Testing(Wear, castingand fatigue)	5000/-	2016

21. Faculty as members in a) National committees b)International committees
c) Editorial Boards

Name of faculty	Committee Details	BOS		BOE		Others
		VTU	Other	VTU	Other	
Mahesha.K	BOS for IP/IEM/MSE	√				
S.C.Pilli	BOS for IP/IEM/MSE	√	√	√		-BOG –Two Institutions Academic Council Member -- Two Universities -Two autonomous Colleges Member Executive council

22. Student projects:

a) **Percentage of students who have done in-house projects / programme [2016-17]**

No of students	157	Percentage
No of in-house projects	65	41.4

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies(2016-17)

	No. of Students	Percentage
No of projects in Industry	88	56.05
No of projects research laboratories	04	2.5

23. Awards/Recognitions received by faculty and students:

Name	Awards/Recognition	Year
Santhosh, Jayson John, AnkithBharadwaj and AkshayAnvekar	Mechanism Design Contest-3rd Prize	2013-14
Mohammad Yahya.S, Siddhant Patel, Harish Kumar M and UdithAzeevan	Engineering Trooper- 1st prize	2013-14
Sourabh.B.Zoshi, Ivayya.C.Managundi, Honnurswamy.V	Bridge the Gap-2nd Prize	2013-14
UdayVajapu	Car Mania-2nd Prize	2013-14
HS Mohan Govind, SB Radhika	Approved for sponsorship in 38th series of student Projects Programme 2014-15 from Karnataka State Council for Science and Technology	2014-15
Sunny Rai, BhanuPratap Singh, ShivamPrakash and UdithAjeevan	The students were selected for final round of Red Bull Flugtag, Indian Debut 2014-2015	2014-15
Somaskanda S, PritheshKotian, Santhosh SS, Suresh P andRanjith Kumar C	ASME HPVC INDIA 2015,Delhi Technological University ,Delhi, India	2014-15
Muralidhar, Rajath.J, Shreyash, Subhankar	Mutual exchanging education program	2014-15
Abhishek.G, SunkaruPrithvi Reddy, Umuhuza Marie Merci, Nazeer	Mutual exchanging education program	2015-16

24. List of eminent academicians and scientists/visitors to the department:

Name	Designation	Date of Visit	Activity
S.N.Sandoor	Project Co-ordinator, Biofuel Cell, Karnataka State Council for Science and Technology, Bangalore.	07/02/2015	Research Opportunities in Biofuels
Col.G.S.Rana (Retd)	Retd. Colonel, Indian Army	14/03/2015	Leadership in Engineering Profession
Abhay Anand Kulkarni	Deputy Manager, PPP Dept, Plant Adm in Div. Toyota kirloskar motor Pvt Ltd , Bidadi, Ramnagara-562109	14/02/2015	Basics of TPS and Supply chain management
Srinivas.M	Asst. Manager, Micrometric Machine Tools PVt Ltd	07/03/2015	CNC Grinding Technology and Automation
Sathyak Sundar Padhy	UDVAVISK Technologies Pvt. Ltd, Chennai	17/4/2015	Open Source Tools Powered Engineering
Mahima KulKarni	Kennametal India Pvt Ltd	5/3/2015	Introduction to Cutting Tools
Vaishali Jagannath	Kennametal India Pvt Ltd	10/3/2015	Cementide Carbide ,Steel Cutting ,Hard Coating,
Nikil.B.Wani	Kennametal India Pvt Ltd	21/4/2015	Principle and working of Milling Machine
Nikilesh K Reddy Mylavaram	Kennametal India Pvt Ltd	28/4/2015	Drilling Machines andNomenClature
Kumarappa	Senior Manager- Design Machining Solution Group, WIDMA Machine tool, Kennametal India Ltd	25/3/2015	DFMEA (Design Failure Mode and Effect Analysis)
Virupaksha H S	Deputy General Manager - Information System and Planning, Ace Manufacturing systems ERP (Enterprise Resource Planning)	25/3/2016	ERP (Enterprise Resource Planning)

Name	Designation	Date of Visit	Activity
Ramesh Rao	Research and Development, Kennametal India	29/4/2016	Technical talk on " Lean Six Sigma approach for variation reduction"

25. Seminars/Conferences/Workshops organized and the source of funding

a) National b)International:

Seminar/Conference/workshop	Duration with dates	Funding Agency	Amount of fund	Amount funded by institution	No of participants
Workshop on "Automobile Mechanics and IC Engine Design"	20/03/2014 to 21/03/2014	self	220,500		147
"Geometrical Dimensioning and Tolerances"	23/01/2015 to 24/01/2015	Self	Industry sponsored 6,500		65
Robotics Workshop- "Robotryst-2014"	26/8/2014 and 27/8/2014	Self	120,000		100
National Seminar on " Emerging Trends in Metal Forming and Heat Treatment	23.7.2015 to 24.7.2015	SERB	75,000	50,000	150
FDP on DATA science with R	25.7.2016 to 30.7.2016	Self	100,000	5,000	50,000

26. Student profile programme/course wise: Mechanical Engineering(UG+PG):

Name of the Programme	Year	Applications received	Selected
BE(Mechanical Engineering) BE(Manufacturing Science and Engineering) M.Tech(Machine Design) M.Tech(Product Design and Manufacturing)	2013-14	55 10 05 02	32 05 00 00
BE(Mechanical Engineering) BE(Manufacturing Science and Engineering) M.Tech(Machine Design) M.Tech(Product Design and Manufacturing)	2014-15	48 15 02 00	31 06 00 00

BE(Mechanical Engineering) BE(Manufacturing Science and Engineering) M.Tech(Machine Design) M.Tech(Product Design and Manufacturing)	2015-16	51 08 03 00	30 02 00 00
	2016-17	48 06 01 01	30 02 00 00

Manufacturing Science and Engineering:

Year	Applications received	Selected	Enrolled	
			M	F
2013-14	90	3	3	
2014-15	65	8	6	
2015-16	80	1	1	
2016-17	70	3	3	

27. Diversity of Students(for the current year 2016-17):

Name of the Course	%of students from the samestate	% of students fromother States	%of students from abroad
Mechanical Engg	60.50	29.41	10.08
Manufacturing Science	84.21	10.52	5.26

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

	Year	No	Year	No	Year	No	Total
GATE	2014-15	3			2016-17	1+1	5
Defense Services			2015-16	1			1
GRE	2014-15	7	2015-16	3	2016-17	1	11
IELTS			2015-16	3			3
TOEFL	2014-15	3	2015-16	3			6
CAT					2016-17	1	1

29. Student progression:

Studentprogression	Against%enrolled		
UGtoPG	Academic Year	Percentage	
	2015-2016		
	2014-2015	15	
	2014-2013	17	
PGtoM.Phil.	Nil		
PGtoPh.D.	Academic Year	Percentage	
	2015-2016	5	
	2014-2015	15	
	2014-2013	5	
Ph.D.toPost-Doctoral	Nil		
Employed •Campusselection •Other than campusrecruitment	19.25%		
Entrepreneurship/Self-employment	10%		

Progression in the department (Based on First year admission)

Mechanical Engineering

No/year	Intake	Year1	Year2	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2012-13	120	135	157	139	137	98	89	99
2013-14	120	134	153	135	132	96	89	
2014-15	120	118	121	117		83		
2015-16	120	132	133					
2016-17	120	118						

Manufacturing Science and Engineering:

No/year	Intake	Year1	Year2	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2013-14	60	21	19	15	13	90	79	87

30. Details of Infrastructural facilities

a) Library

1.	Area	42.6 m^2
2.	Seating Capacity	24
3.	Books	452Nos.
4.	Journals	470Nos.
5.	UG and PG reports	150Nos.

b) Internet facilities for Staff and Students

Broad band connectivity of
1) 120Mbps – Railtel
2) 10Mbps – BSNL
3) Campus is enabled with Wi-Fi facility

c) Class rooms with ICT facility

	Description	Area of Class room in Sq. Mts
1.	MELH -101	58
2.	MELH -102	42
3.	MELH - 103	63
4.	MELH-200	43
5.	MELH-201	59
6.	MELH-202	128
7.	HMT Lab	56.8
8.	FM Lab	52.91
9.	MT Lab	54.4
10.	F and F Lab	54.4

d) Laboratories

1. Computer Aided Engineering Laboratory
2. Basic Workshop
3. Computer Aided Machine Drawing Laboratory
4. Metallography and Material Testing Laboratory
5. Foundry and forging Laboratory
6. Machine shop
7. Mechanical Measurements and Metrology Laboratory
8. Fluid Mechanic and Machines Laboratory
9. Computer Aided Modeling and Analysis Laboratory

i. Energy Conversion Engineering Laboratory

ii. Heat and Mass Transfer Laboratory

10. Design Laboratory

11. CIM and Automation Laboratory

31. Number of students receiving financial assistance from college, university, Government or other agencies

No of Students	College	University	Social welfare	College	Other
704	Acharya Institute of Technology	VTU	SC,ST,OBC,K MDC	9	2

32. Details on student enrichment programmes (special lectures/workshops /seminar) with external experts

Date	Program	Expert
07/02/2015	Research Opportunities in Bio-fuels	S.N. Sondur, Project Co-ordinator, Biofuel Cell, Karnataka State Council for Science and Technology, Indian Institute of Science, Bangalore.
14/03/2015	Leadership in Engineering Profession	Col.G.S.Rana(Retd.)
14/02/2015	Basics of TPS and Supply chain management	AbhayAnandKulkarni, Deputy Manager,PPPDept, Plant Adm in Div. Toyota kirloskar motor Pvt Ltd , Bidadi, Ramnagara-562109
7/03/2015	CNC Grinding Technology and Automation	Srinivas.M, Asst.Manager,Micromatic Machine Tools PVt Ltd
17/4/2015	Open source tools powered Engineering	SathyakSundarPadhy, UDVAVISK Technologies Pvt Ltd, Chennai
5/3/2015	Introduction to Cutting Tools	MahimaKulKarni Kennametal India Pvt Ltd
10/3/2015	Clementine Carbide, Steel Cutting ,Hard Coating,	Vaishalijagannath,Kennametal India Pvt Ltd
21/4/2015	Principle and working of Milling Machine	Nikil.B.Wani.Kennametal India Pvt Ltd
28/4/2015	Drilling Machines and Nomenclature	Nikilesh K Reddy Mylavaram, Kennametal India Pvt Ltd
25/3/2016	DFMEA (Design Failure Mode and Effect Analysis)	Kumarappa, Senior Manager- Design Machining Solution Group, WIDMA Machine tool, Kennametal India Ltd
25/3/2016	ERP (Enterprise Resource Planning)	Virupaksha H S, Deputy General Manager - Information System and Planning, Ace Manufacturing systemsERP (Enterprise Resource Planning)
29/4/2016	Technical talk on " Lean Six Sigma approach for variation reduction"	Ramesh Rao, Research and Development , Kennametal India

33. Teaching methods adopted to improve student learning

Faculty members adopt various teaching methods to cater to the needs of the entire spectrum of students in a particular class. The following are the frequently used teaching methods by the faculty:

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any Other
√	√	√	√	√	√	Role play Working model/ experimental set up Industrial visits Seminars Internship

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Date	Activity	No of Participants
28/6/14	Pollution and some solutions	20
13/8/14	Blood donation camp	50
20/8/14	Awareness on epidemic diseases	25
20/10/2014	"Awareness on crackers bursting"	40
10/11/2014 to 12/11/2014	Computer literacy program	25
14/11/14	Acharya Helping hands	35
15/12/2014	Women health	5

35. SWOC analysis of the department and Future plans

Strengths:

1. About 10% of faculty possesses doctorate degree and 80% of the faculty members are pursuing Ph D, which gives the departmental atmosphere a blend of strong academic and research.
2. Interaction with industries and foreign Universities that lead to student projects, Internship, expert lectures, training to faculty and students, industry visits, student exchange program etc.
3. Excellent infrastructure / facilities with well-equipped and spacious laboratories.
4. Strong support to student activities encouraging students to assimilate innovative culture.

Weakness:
1. Lack of Industrial Research and lack of Consultancy work
2. Placement in core companies.
3. Imbalance in cadre ratio

Opportunities:
1. Opportunity to enhance Industry Institute Interaction as the college is close to a major industrial hub.
2. Changing mindset of MSME towards indigenous R and D that provides opportunity to start sponsored projects and consultancy work.
3. Recent government schemes like Make in India are likely to enhance job opportunities to students.

Challenges:
1. Attract good rank students to seek admission in our department
2. To attract core companies for campus placement.
3. To increase innovative content in departmental projects, this can result in patenting a few of them.

Future Plan
1. Develop center of excellence in research in advanced materials engineering
2. Provide platform for the students to undergo industry linked training
3. Extend the research facility and research expertise for consultancy work
4. Promote students participation in various competitions.

Mechatronics Engineering

1. **Name of the Department**   :   Mechatronics Engineering

2. **Year of Establishment**   :   2009

3. **Names of Programmes/Courses offered**

UG	PG	Ph.D
Mechatronics Engineering	Nil	Nil

4. **Names of Interdisciplinary courses and the departments/units involve:**   Nil

5. **Annual/semester/choice based credit system (programme wise):**

BE	I-IV sem	CBCS
	V-VIII sem	Semester scheme

6. **Participation of the department in the courses offered by other departments**

Department	Subject offered with code	Year
Bio- Technology	Bio Sensors and Bio Instrumentation	2013-14, 2014-15, 2015-16
Electronics and Communication	Power Electronics, Real time Systems	2013-14

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
                                Nil

8. **Details of courses/programmes discontinued (if any)with reasons:**   Nil

9. **Number of teaching posts**

	Sanctioned	Filled
Professors	1	1
AssociateProfessors	2	0
Asst.Professors	6	8

10.   Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience				No. of research ScholarsGuiding for Ph.D
				Industry	Teaching other than AIT	AIT	Total	
A R K Swamy	B.E , M.E, Ph.D	Professor and Head	Composite Material and Machine Design		26.50	6.50	33	05
Sridhar S Jetty	B.E , M.Tech, (Ph.D)	Associate Professor	Product Design and Manufacturing, Wear Analysis	8.0	5.50	5.50	19	
Bhagirathi Bai V	B.E, M.Tech, (Ph.D)	Associate Professor	Digital Electronics and Communication		7	5	12	
L RanganathGowda	B.E, M.Tech, (Ph.D)	APG III	Computer Integrated Manufacturing		2	5	7	
Dilip R	B.E., ME, (Ph.D)	APG III	Control and Instrumentation		2	4	6	
Kiran Kumar K	B.Tech, ME	APG III	Electronics and Communications		3	4	7	
Chandrashekar L	B.E., M. Tech	APG III	Digital Electronics and Communication System	4	3	4	11	
Meghana M Sinthre	B.E., M. Tech	APG III	VLSI Design and Embedded System		0.5	3.5	4.0	
Sandeep K	B.E., M.Tech, (Ph.D)	APG III	Thermal Power Engineering	0.5	3.25	0.25	4.0	

11. **List of senior visiting Faculty**   Nil

12. **Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty**   Nil

13. **Student-Teacher Ratio (programme wise):** 20:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Category	Sanctioned	Filled
Administrative Staff	01	01
Academic Support Staff(Technical)	02	

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

Sl.No.	No. of faculty
Ph.D	01
PG	08

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received**   Nil

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, KSCST, etc. and total grants received**

Name of the project	Funding agency	Year of Funding	Grant received
Power Generation from exhaust gas and engine heat	KSCST	2015	7,000 /-
3D Scanner	KSCST	2016	8,000 /-
Portable Photocopier	KSCST	2016	6,000 /-
Eco-Drive	KSCST	2016	6,000 /-
Automatic soil mulching machine	KSCST	2017	5,000/-
(Mersi) mine exploration, recovery and Securing instrument	KSCST	2017	9,000/-

18.   Research Centre/facility recognized by the University Yes/No: No

19.   Publications:

a) Publication per faculty

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20.   Areas of consultancy and income generated: Nil

21.   Faculty as members in

a) National Committees b)International Committees c)Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
ARK Swamy	SIT Tumkur				BOE

22.   Student projects

a) Percentage of students who have done in-house projects including interdepartmental/programme

Particulars of the project	Year							
	2012-13		2013-14		2014-15		2015-16	
	No's	%	No's	%	No's	%	No's	%
No of Students (No. of batches)	50(14)		63(19)		70(20)		66(19)	
No of in-house projects	09	65	14	74	11	55	13	68

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

Particulars of the project	Year							
	2012-13		2013-14		2014-15		2015-16	
	No's	%	No's	%	No's	%	No's	%
No of Students (No. of batches)	50 (14)		63 (19)		70 (20)		66 (19)	
No of Projects in Industry	5	35	05	26	8	40	03	16

23. Awards/Recognitions received by faculty and students

- Faculty members

Awards/Recognitions received by faculty members

Name	Award/Recognition	Agency	Year
Dilip. R	Best paper	International Conference on Innovations Instrumentation, Karunya University, TN	2013

- Students

Awards/Recognitions received by students

Name	Award/Recognition	Agency	Year
Arjun Datar Pradeep T	Best instrumentation engineering project award Rs 12000	SRISHTI 2017 National level technical Project Competition and Exhibition	2017
Arjun Datar Pradeep T	The project won a cash price of Rs. 3500/-	Innovation festival Organised by visveswariah industrial and technological museum	2017
Shah Darshan	selected for the final round and presented his project	Tech Top National Innovation Competiton-2016 organized by Sahrdaya College of Engineering, Thrissur, Kerala	2016
Darshan Shah Vaibhav Desai	won second place in the event	IEEE TECH EXPO R.N.S.I.T, Bangalore	2016
ManjuBhargav Girish BV and team	First Prize Rs. 1.25 Lakhs cash prize	National Level Bike Design Competition and Auto Expo, AIT Bangalore	2016
TanmayDeshmukh	Autonomous humanoid robot best technical paper award	National conference on recent trends in Engineering and Management -2016, Held at Amrutha Institute of Technology	2016
Darshan Shah Vaibhav Desai	Won 4th place	SRISTHI 2K16 state level project exhibition and competition	2016
Arjun Datar	First Prize	National Level Techno-cultural, Management and Sporting Extravaganza REVAMP 16	2016
Karthik K.A M. Nikhiil	Power generation from exhaust gas and engine heat Project of the Year	38th series of Student Project Programme	2015
YVS Rohit Manish B S Vivek V	Additive manufacturing using rapid prototyping best paper	7th National Conference on Artificial intelligence and software engineering (AISE)	2015
YVS Rohit Manish B S Vivek V	Additive Manufacturing Using Rapid Prototyping technology-3D Printer RUSI AWARD	Instituted by Rotary Bangalore Udyog and Standards international Precision Engineers Pvt.Ltd	2015

Name	Award/Recognition	Agency	Year
Niveda BS and team	Qualified for Final Round	RoboTryst- 2014, A National Level Championship, IIT Delhi	2014
Darshan Shah	Second Prize	Remote Controlled Car Race at Pravega, IISc Bangalore	2014
Sajal Raj Gautam and team	Third Prize	Indo-US Robo League zonal round	2014

24. List of eminent academicians and scientists/visited to the department

Year	Visitors
2013-14	P Vijay Kumar Badagi, Rolls Royce Company, Canada
	Diwakar , Network Engineer, AT andT., BANGALORE
	HariprasadHemanthPawan B.S and Arvind GE, TEXTRON, and Schneider Electric company,3M India
	K Ramachandra, Professor, RVCE, Bangalore
	RaviKatukam Manager Analysis, Head Innovation Infotech Enterprises Ltd Hyderabad
2014-15	Rathinam "Mitsubishi Electric manufactured CNC"
	T Srinivas, Professor in ECE department, Indian Institute of Science, Bangalore
	S D Swamy, Swamy Design Solution (SDS)
	Umesh Chandra, Mechatronics Engg. AIT, Bangalore
	HariprasadHemanth Kumar Arvind .R Ashwin Mohan Kumar andRaghunandan GE, Schneider Electric, E Aerospace, Scania Commercial Vechicles, Toyota Kirloskar Motors , UTC Aerospace.
	SouravMohnty, 2014 VTU Gold Medal Winner and Valedictorian, AIT. MS in Aerospace Engineering, University of Michigan, USA
	K Natarajan Prof and Head TCE MSRIT, Bangalore
	MogannaGowdaMultifacetTechnica Center Pvt Ltd
	Basavaraj C.H CBCS Innovations
2015-16	Jambulingam Origin Engineering Solutions Bangalore
	Thygaraj Origin Engineering Solutions Bangalore
	Karamchand Origin Engineering Solutions Bangalore
	Abdul Jabbar Origin Engineering Solutions Bangalore
	Ganesan, Head Mraketing Jindal Aluminium Ltd Bangalore
	Prof. Deepa T.P CSE Dept. AIT Bangalore

Year	Visitors
2015-16	AchuthRao Origin Engineering solution, Bangalore
	Ravi Katukam Director-Disruptive Innovation Group Value Labs LLP, Hyderabad
	Sunil Telkar PMI, Bangalore
	Padma R, Deputy Manager, YOKOGAWA
	PruthviSekharPagala, KPIT
	Shivshakar, Branch Manager, PROLIFIC
	Rohan Joy Mathew, Tunic Factory
	Ayshik Nag, Founder Director, CREANNOVENT Group Pvt. Ltd.
	Harish Ravi, Technologics Global Pvt. Ltd.
	Jitendra R Raol, Retired Scientist, NAL

25. **Seminars/Conferences/Workshops organized and the source of funding**
   a) **National**
   b) **International**

Seminars/Conferences/Workshops organized and the source of funding

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund, Rs.	Amount funded by Institution Rs.	No of participants
National					
Two Days Workshop On Vibration Studies And Applications	7/10/2013 and 8/10/2013	Renaissance MT Forum	50,000	50,000	64
Robotics workshop on Haptic Robotic Arm	30-09-2013 and 1-10-2013	Renaissance MT Forum	40,000	40,000	40
Ardiuno workshop	25-04-2014 and 26-04-2014	Renaissance MT Forum	20,000	20,000	40
Two day workshop on Robotics by Indo-US Robo League	10-04-2014 and 11-04-2014	Renaissance MT Forum	40,000	40,000	40
Two day workshop on Robotics by RoboTryst	26-02-2014 and 27-02-2014	Renaissance MT Forum	40,000	40,000	35

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund, Rs.	Amount funded by Institution Rs.	No of participants
One day Robotics workshop for diploma students of Ashoka Polytechnic	07-03-2015	Renaissance MT Forum	10,000	10,000	25
Two day workshop on Autonomous Robotic System	06-04-2017 And 07-04-2017	Renaissance MT Forum	45,000	45,000	30
International					
Trends in Automation, Communications and Computing Technology (I-TACT-15)	21/12/2015 and- 22 /12/2015	IEEE	500000	500000	55

26.   Student profile programme/ course wise

Name of the programme (Management seats)	Year	Applications received	Selected
BE(Mechatronics)	2013-14	30	23
	2014-15	36	22
	2015-16	15	08
	2016-17	38	24

27.   Diversity of Students

Year (Batch)	% of students from the same state	% of students from other States	% of students from abroad
2013	78	20	2
2014	73	21	6
2015	78	18	4
2016	72	22	6

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services, etc.?**

Year	GRE	TOFEL	IELTS	PGCET	Total
2012-13	6	0	0	5	11
2013-14	10	3	0	6	19
2014-15	3	3	0	4	10
2015-16	2	2	6	3	13

29. **Student progression**

Progression in the Department (Based on First year admission)

Student progression	Against % enrolled			
	2012-13	2013-14	2014-15	2015-16
UG to PG	20	16	9	4
Employed • Campus selection • Other than campus recruitment	19 45	5 50	17 30	28 15
Entrepreneurship/ Self-employment	8	9	9	10

Progression in the Department (Based on First year admission)

No/year	Intake	Year1	Year2	Year 3	Year 4	% Year 2	% Year 3	% Year 4
2012-13	72+13	66	54	48	46	82	73	70
2013-14	72+13	68	59	53	52	87	78	77
2014-15	72+16	65	48	41		74	63	
2015-16	72+19	51	45			89		
2016-17	72	67						

30. Details of Infrastructural facilities

a) Library: Department library has
1. space 17sqMts,
2. volumes of books 200
3. Project reports. 72

b) Internet facilities for Staff and Students
Broad band connectivity of
1. 120Mbps – Railtel
2. 10Mbps – BSNL
3. Campus is enabled with Wi-Fi facility

c) Class rooms with ICT facility

Class Room	Room size (sq.Mts)
1. D042057	77.76
2. D042062	77.76
3. D042059	77.76
4. D042047	77.76

d) Laboratory

Laboratory description in the Curriculum	Exclusive use /Shared	Space in Sq.Mts
1. Mechanical Lab-I		120
2. Analog and Digital Electronics Lab		86
3. Mechanical Lab-II		120
4. Microcontroller Lab		86
5. Metrology and Measurements lab	Shared	120
6. ACP Lab		120
7. MEMS Lab		120
8. DSP Lab		86
9. Robotics Machine Vision Lab	Exclusive	60

31. Number of students receiving financial assistance from college, university, Government or other agencies

Scholarship/ Fee Concession Schemes	2013-14	2014-15	2015-16
KMDC Loan	3	2	1
SC/ST below 2.5 lakh	6	7	13
SC/ST above 2.5 lakh	7		1
OBC category	31	30	43
College	1	1	

32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts

Topic	Date	Resource Person
Network Topologies	24-8-2013	Diwakar, Network engineer, Alcatel Lucent, Bangalore
Dynamic response of thickness and width tapered composite beams using Ray-leighritz method and modal testing	31-8-2013	Vijay Kumar Badagi, Concorde University, Rolls Royce, Montreal, Canada
Alumni interaction with the students	21-9-2013	Pawan B.S, Textron India Hemanth Kumar, GE Hariprasad K, 3M India Arvind, Schneider electric
Workshop on Mechanical vibration studies and applications	7-10-2013 and 8-10-2013	Krishna, NV Dynamics
Transformation through motivation	6-02-2014	ArjunDevaiah
Discover the inventor within you	15-05-2014	Ravi Katukam, Managar analysis, Head innovatin, Infotech Enterprises Ltd., Hyderabad
CAM/CAD/CAE	5-02-2015	SDS, Bangalore
Electronic Manufacture CNC machines	5-02-2015	Rathinam, CNC training incharge, Mitsubishi electric.

Topic	Date	Resource Person
Optical Mems	09-03-2015	T Srinivas, Prof. IISc, Bangalore
Talk on Do you really want to be an Engineer – What roles exists for an engineer	13-03-2015	Umesh Chandra
Industry Students interaction *Innovations/Hobby projects *Recent trends in Mechatronics/Mechanical/Aerospace industries *Career *Job opportunities *Higher studies *Corporate culture and Motivational talk	25-04-2015	Arvind R, Schneider electric Ashwin B/E aerospace, Bangalore Hariprasad K, 3M India Hemanth Kumar, General Electric Mohan Kumar, Toyota kirloskar motors, Bangalore Raghunandan, UTC aerospace, Bangalore
Emerging trends in Mechatronics (Mems)	5-05-2015	K Natarajan, Prof. and Head, TCE, MSRIT, Bangalore
Focus in life and Higher studies in abroad (Alumni interaction)	15-05-2015	SouravMohanty, MSE in Aerospace engineering, Unversity of Michigan, USA
Ergonomics	21-05-2015	Basavaaraj C H, CBCS innovations
Product design and development (Industry Interaction)Origin Engineering Solutions, Bangalore	21-08-2015	Jambulingam, Expertise in product design and manufacturingThygaraj, Expertise in electronics and embedded systemsKaramchand, Specialization in tool and die makingAbdul Jabbar, Corporate relationship, CAD and Manufacturing
Extruded Aluminium production and self motivation (Industry Interaction)	22-09-2015	A S Ganesan, Head marketing, Jindal Aluminium Ltd.
Artificial Intelligence	31-10-2015	Prof. Deepa T.P, Assistant professer, Department of CSE, Acharya Institute of Technology, Bangalore
Creativity, design and Innovation (Brain storming session) (Industry Interaction)Origin Engineering Solutions, Bangalore	03-02-2016	AtchuthRao
Discover the inventor in India	30-03-2016	Ravi Katukam, Director-disruptive innovation group, Value labs LLP, Hyderabad
Emerging trends in process automation with DCS and PLC review (Industry Interaction)	19-08-2016	Padma R, Deputy manager, Yokogawa, Bangalore

Topic	Date	Resource Person
Preplacement talk by AITAA (Alumni interaction)	20-08-2016	PruthviSekharPagala, KPIT, BangaloreSujan Suresh, HCL, Bangalore
PLC and SCADA	23-08-2016	H S Shivashankar, Branch manager, Prolific, Bangalore
Pre placement talk by AITAA (Alumni interaction)	22-10-2016	Rohan Joy Mathew, Tunic Factory, Thrissur
CANSAT (CannisterSatellaite)	17-02-2017	Ayishik Nag, Founder director, creannovent group Pvt. Ltd., Bangalore

33. Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
√	√	√	√	√	-	

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Date	Activity	No of Participants
2015	Support physically and mentally challenged women at LIZA's HOME	35
2014	Supporting the blind Children's KAANADA Belaku	30

35. SWOC analysis of the department and Future plans

Strength:

1. Qualified and committed faculties with diverse specialization.
2. Proactive counseling and motivation towards student's success.
3. Industry- Institute Interaction- Providing platform for students in terms of projects, internship, placements, higher studies (in India and aboard), patent applications.

Weakness:

1. Upgrading the infrastructure.
2. Publication Journals

Opportunities:

1. Linkages with industry for enhancement of placements through collaborative projects.
2. Establishing Post Graduation and research centre.
3. Enhancement of intake at UG program.

Challenges:

1. To attract more meritorious students.
2. Undertaking research projects.
3. MOU with National and International Organizations collaborative research project.

Future Plans

1. Establishment of Computer lab, Microcontroller lab, ADE lab, Power electronics lab and DSP lab
2. Establishment of Virtual Instrumentation lab
3. Establishing R and D center
4. Starting of PG program/s

Mining Engineering

1. **Name of the department:** Mining Engineering

2. **Year of Establishment:** 2013

3. **Names of Programmes/Courses offered:**

UG: B.E. in Mining Engineering	PG: Nil	Ph.D.: Nil

4. **Names of Inter disciplinary courses and the departments/units involved:** Nil

5. **Annual/semester/choice based credit system (programme wise):**

    I – IV semester   Choice Based Credit System

    V-VIII semester   Semester system

6. **Participation of the department in the courses offered by other departments:** Nil

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.**

    Nil

8. **Details of courses/programmes discontinued (if any)with reasons:**   Nil

9. **Number of Teaching posts:**

	Sanctioned	Filled
Professors	02	01
AssociateProfessors	04	00
Asst.Professors	12	06

10. **Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt. /Ph.D./M.Phil. etc.,):**

Name	Qualification	Designation	Specialization	No.ofYears of Experience				No.of Ph.D Students guided for the Last 4 years
				Industry	Teaching other than AIT	AIT	Total	
ManasMukhopadhayay	M.Tech. (Ph.D.)	HOD and APG-I	Open Cast Mining	2.5	20	1.5	24	
B.B. Mandal	Ph.D.	Professor	Env.Sc andEngg	33(Industry+Research)			33	
Rajesh Sonkar	M.E.	APG-II	Env.Sc andEngg	21			21	
Manjunath A	B.E. (Ph.D.)	APG-III.	Mine Closure planning		7.5	2	9.5	
Narasimhamurthy J K	M.Sc. (Ph.D.)	APG-III	Economic Geology	4		2	6	
Raja S.	M.Tech. (Ph.D.)	APG-III	Strata Control			4	4	
Vishal BabuGuggari	M.Tech.	APG III	Mining			2	2	

11. **List of senior visiting faculty:** Nil

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:** Nil

13. **Student-Teacher Ratio (programme wise):** 43:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Category	Sanctioned	Filled
Academic support staff(technical)	2	1
Administrative staff	1	1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/ PG:

Sl no	No of faculty
DSc/D Litt	
Ph.D	1
M.Phil	
PG	6

16. Number of faculty with ongoing projects from a)National b)International funding agencies and grants received: Nil

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received: Nil

18. Research Centre/facility recognized by the University: Nil

19. Publications:
   a) Publication per faculty

   Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. Areas of consultancy and income generated: Nil

21. Faculty as members in a) National Committees b) International Committees c) Editorial Boards:

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
ManasMukhopadhyay				√	

22. Student projects:

   a) Percentage of students who have done in-house projects including interdepartmental/programme: Nil

   b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

		Percentage
No of Students	36	
No of in-house projects		90
No of Inter dept projects		10
No of Projects in R and D Labs		10
No of Projects in Industry		10
Others		Nil

23. Awards/Recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists/visitors to the department:

Name	Designation	Date of visit	Activity
Raja Ramani	Professor (Emeritus and Chair), Pennsylvania state university	25/01/ 2015	Guest Lecture on "Mine Closure"
L. D. Babu	DGM, MEL	28/10/ 2015	Guest Lecture on "Safety System in Mines"
Kumaresh A	Manager, HGML	25 /03/2016	Guest Lecture on "Rock Mechanics and Ground Control (Instrumentation) "

Name	Designation	Date of visit	Activity
G. Gopinath	Senior Scientist, NIRM	26/10/ 2016	Guest Lecture on "Blasting Practices in Mines"
Srinivasan C.	Former Scientist and Head, NIRM	28/03/ 2017	Guest Lecture on "Application of Seismology in Mining"

25. Seminars/Conferences/Workshops organized and the source of funding
   a) National: Nil
   b) International: Nil

26. Student profile programme/course wise:

Name of the programme (Management seats)	Year	Applications received	Selected
BE(Mining Engineering)	2013-14	60	35
	2014-15	45	30
	2015-16	42	34
	2016-17	36	27

27. Diversity of Students:

Name of the Programme	%of students from the same state	% of students from other States	%of students from abroad
B.E. (Mining Engineering)	51	39	10

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services, etc.?

	Year	No	Year	No	Year	No	Total
NET							
SLET							
GATE	2017	3					

29. Student progression:

Student progression	Against % enrolled
UG to PG	Nil
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D.to Post-Doctoral	Nil

Employed
  1. Campus selection
  2. Other than campus recruitment
	2

Entrepreneurship/Self-employment	Nil

Progression in the Department (Based on First year admission)

Year	Intake	Year 1	Year 2	Year 3	Year 4	% year 2	%Year3	% year4
2013-14	60	43	35	25	25	81	58	58
2014-15	120	55	15	11		27	20	
2015-16	120	72	38			53		
2016-17	120	48						

- Percentage based on first year admission

30. Details of Infrastructural facilities

    a) Library: Yes

    b) Internet facilities for Staff and Students: Yes

        Broad band connectivity of
1. 120Mbps – Railtel
2. 10Mbps – BSNL
3. Campus is enabled with Wi-Fi facility

    c) Class rooms with ICT facility: Yes

    d) Laboratories:
1. Rock Mechanics
2. Mineral Processing
3. Mine Environmental Engineering.
4. Mine Machinery

31.   Number of students receiving financial assistance from college, university, Government or other agencies, SC-ST/OBC/KMDC/DEFENSE.

Year	No Of Students	University	Social Welfare	College	Other/Defense
2013-2014	0			1	
2014-2015	14		14	3	
2015-2016	30		30	2	

32.   Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts

Date	Activity	Resource person	No of participants
25 /01/ 2015	Guest Lecture on "Mine Closure"Mines"	Raja Ramani	60
28/10/ 2015	Guest Lecture on "Safety System in Mines"	L. D. Babu	60
25/03/ 2016	Guest Lecture on "Rock Mechanics and Ground Control (Instrumentation) "	Kumaresh A	50
26/10/ 2016	Guest Lecture on "Blasting Practices in Mines"	G. Gopinath	65
28/03/ 2017	Guest Lecture on "Application of Seismology in Mining"	Srinivasan C.	50

33.   Teaching methods adopted to improve student learning:

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	Yes	Yes	Yes (Chart and Talk)	-	Yes	Nil

34.   Participation in Institutional Social Responsibility (ISR) and Extension activities:

Nil

35.   SWOC analysis of the department and Future plans:

Strength

1.   Resource persons and expertise drawn from National Institute of Rock Mechanics in the field of ground control and blasting practices in mines.

2. Experienced and dynamic full-time faculty with strong commitment.
3. Locational advantage of the Institute to attract talents both in teaching and learning of mining engineering.

Weakness

1. Inadequate library facility.
2. Lack of in-house facility for research.
3. Inadequate supporting staff.

Opportunity

1. To establish strategic alliance with Directorate General of Mines Safety and Indian Bureau of Mines which are located in Bangalore city itself.
2. Industry institute partnership.
3. Latest technologies like web education, internet and video conference are to be utilized in learning and teaching.
4. Research in Frontier areas of mining.

Challenge

1. Making mining engineering students employable in mining and allied industries as it requires diverse and multi-disciplinary approach.
2. Standing out as one among the competitive and highly credible institutes in the areas of Mining and allied industries.
3. Making the Mining Engineering programme relevant to the needs of industry by bridging gaps between curriculum and changing requirements.

Future plans

1. To get approval for center for conducting Gas Testing Examination by DGMS, Ministry of Mines
2. To have a collaboration with mining industries to give more exposures to our students on various problems faced by the industry to make them industry ready candidates.
3. To establish research centre to carry out research activities in the emerging field of mining engineering

Chemistry

1. **Name of the department:** Chemistry

2. **Year of Establishment:** 2000

3. **Names of Programmes/Courses offered(UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.):**

UG: B.E	PG: Nil	Ph.D: Chemistry

4. **Names of Inter disciplinary courses and the departments/units involved:** Nil

5. **Annual/semester/choice based credit system(programme wise):** CBCS

6. **Participation of the department in the courses offered by other departments:** Nil

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil

8. **Details of courses/programmes discontinued (if any) with reasons:** Nil

9. **Number of Teaching posts**

	Sanctioned	Filled
Professors	1	
AssociateProfessors	1	
Asst.Professors	7	7

10. **Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt. /Ph.D./ M.Phil. etc.,) :**

Name	Qualification	Designation	Specialization	No.ofYears of Experience				No.ofPh.D. Students guidedforthe last4years
				Industry	Teaching other than AIT	AIT	Total	
Vishnuvardhan T K	M.Sc.Ph.D.	APG-I	Inorganic chemistry	Nil	11	8	11	Nil
Harish MNK	M.Sc.Ph.D	APG-I	General chemistrty	Nil	2	4	6	Nil

Name	Qualification	Designation	Specialization	No.ofYears of Experience				No.ofPh.D. Students guidedforthe last4years
				Industry	Teaching other than AIT	AIT	Total	
Satishkumar K B	M.Sc. M.Phil. M.Ed (Ph.D.)	APG-I	Physical Chemistry	Nil	2	18	20	
Satish K	M.Sc. (Ph.D)	APG-III	Bio Chemistry	Nil	nil	8	8	
Brungesh K V	M.Sc. (Ph.D)	APG-III	Physical Chemistry	Nil	11	5	16	
Poornima G S	M.Sc. (Ph.D)	APG-III	Inorgaanic chemistry	Nil	3	5	8	
Shwetha R	M.Sc. (Ph.D.)	APG-III	General chemistry	Nil	1	5	6	

11.   List of senior visiting faculty: Nil

12.   Percentage of lectures delivered and practical classes handled (programme wise)by temporary faculty: Nil

13.   Student-Teacher Ratio(programme wise):20:1

14.   Number of academic support staff(technical) and administrative staff; sanctioned and filled:

Category	Sanctioned	Filled
Technical	2	2

15.   Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG:

Sl. No.	No. of faculty
DSc/D Litt	Nil
Ph.D.	2
M.Phil	2
PG	3

16.   Number of faculty with ongoing projects from a)National b)International funding agencies and grants received: Nil

17.   Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received: Nil

18.   Research Centre/facility recognized by the University   Yes/No: yes

19.   Publications:

a) Publication per faculty

Number of papers published in peer reviewed journals(national/ international) by faculty and students.

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20.   Areas of consultancy and income generated: Nil

21. Faculty as members in a) National committees b)International committees c)Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
Vishnuvardhan T K	Electrochemical society of India : LF244 International association of Engg:LM-135683 Indian science congress: LM-23234 International Association of Chemical Eng.—135683 International Safety Quality Environment Management Association-Associate	nil			Reva university

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
Vishnuvardhan T K	Member-15M27940 Deccan Journal of Chemistry –Advisory Board Member Reviewer-International Journal of Engineering and Technology Reviewer- Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry	nil			Reva university

22.   Student projects

   a) Percentage of students who have done in-house projects including inter departmental/programme: NA

   b)Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: NA

23. Awards/Recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists/visitors to the department:

Name	Designation	Date of visit	Activity
Thippeswamy H N,	Principal, TJIT, Bangalore	5.3.2013	Water Management
E.S.Dwarak Das	CEO and MD, Karnataka Hybrid Micro Devices Ltd. IISc,Bengaluru	27.2.2014	Li and Polymer Battery and its applications
Anand B Halgeri	Director for PISR Former Head of R andD, vice- president of Indian Petro chemical corp, Ltd, and Reliance Industry Ltd, Baroda	8.4.2017	Nanomaterials and nanotechnology and its applications

25.   Seminars/Conferences/Workshops organized and the source of funding
   a) National -Nil
   b) International -Nil

26. **Student profile programme/coursewise:** NA

27. **Diversity of Students:** NA

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?** NA

29. **Student progression:** NA

30. **Details of Infrastructural facilities**
  a) Library: Yes
  b) Internet facilities for Staff and Students: Yes
  c) Class rooms with ICT facility: Yes
  d) Laboratories: Yes

31. **Number of students receiving financial assistance from college, university, Government or other agencies:** NA

32. **Details on student enrichment programmes (special lectures/workshops/ seminar)with external experts:**

Date	Activity	Resource person	No of participants
5.3.2013	Poster presentation from Students	Thippeswamy H N,	70
27.2.2014	Science Exhibition from Students	E.S.Dwarak Das	100

33. **Teaching methods adopted to improve student learning:**

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	No	Yes	Yes	Nil	Yes	

34. **Participation in Institutional Social Responsibility (ISR)and Extension activities:** Nil

35. SWOC analysis of the department and Future plans

Strength

1. Well qualified faculty members with congenial atmosphere.
2. Strong interaction between faculty and students.
3. Research Activities.
4. Good infrastructure, adequate number of classrooms.

Weakness

1. Student capabilities to group the subjects in a limited period / semester.
2. Lack of research infrastructure.

Opportunities

1. To inject future scope and the research direction encompassing all the disciplines while making students competent towards research and development.
2. To fortifying the academic and industry interactions , consultancy programs with organization.

Challenges

1. Teaching applied chemistry for average students
2. Promote research activities with existing facilities along with academics

Future Plans:

1. All Faculty involve in research and chemistry of research is applied to teach BE I Sem students Upgrading the research facilities.
2. To receive the funding from various funding agencies for teaching and research activity

Mathematics

1. **Name of the department:** Mathematics

2. **Year of Establishment:** 2000

3. **Names of Programmes/Courses offered(UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.):**

UG:	PG:	Ph.D:
Engg.Maths-I-IV	Applied Mathematics, Advanced Mathemtics and Numerical Methods and Statistics	Mathematics(Graph Theroy, Number Theory,Analysis)

4. **Names of Inter disciplinary courses and the departments/units involved:** Nil

5. **Annual/semester/choice based credit system(programme wise):**Semester

6. **Participation of the department in the courses offered by other departments:**

Department	Subject offered with code
Biotechnology	Numerical Methods and Statistics(16BBT11)
Electrical and Electronics Engineering	Applied Mathematics (16EPS11)
Electronics and Communication Engineering	Advanced Mathematics (16ELD11)
Mechanical Engineering	Applied Mathematics (16MMD11)

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil

8. **Details of courses/programmes discontinued (if any) with reasons:** NA

9. **Number of Teaching posts**

	Sanctioned	Filled
Professors	1	1
AssociateProfessors	1	1
Asst.Professors	11	12

10. **Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt. /Ph.D./ M.Phil. etc.,) :**

| Name | Qualification | Designation | Specialization | No.ofYears of Experience | | | | No.ofPh.D. Students guidedforthe last4years |
				Industry	Teaching other than AIT	AIT	Total	
Rajanna K R	M.Sc., M.Phil., Ph.D.	Professor and Head	Number Theory		14	06	20	4(pursuing)
Pradeep Kumar	M.Sc, Ph.D	Asso. Professor	Differential Geometry	Nil	06	05	11	2(pursuing)
T Rami Reddy	M.Sc, M.Phil, Ph.D.	APG-I	Algebraic Graph Theory	Nil	11	04	15	1(pursuing)
Rajeshwari M	M.Sc, M.Phil, Ph.D.,	APG-III	Graph Theory	Nil	06	11	17	2(pursuing)
Md. SamiulHaque	M.Sc., M.Phil, (Ph.D.)	APG-III	Graph Theory	Nil	02	08	10	
Manohar M C	M.Sc, (Ph.D)	APG-III -	Statistics	Nil	10	10	20	
Kavitha S Permi	M.Sc, Ph. D	APG-III	Graph Theory	Nil	06	07	13	
Sandeep Kumar	M.Sc., Ph. D.	APG-III	Mathematical Analysis	Nil	03	06	09	
Niranjan C M	M.Sc (Ph. D)	APG-III	Fluid mechanics,	Nil	07	04	11	
Chethan Kumar	M.Sc.,	APG-III	Fluid mechanics,	Nil	02	8m	2.8	

Name	Qualification	Designation	Specialization	No. of Years of Experience				No. of Ph.D. Students guided for the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
Anitha S	M.Sc, (Ph. D)	APG-III	Fluid mechanics,	Nil	04	8m	4.8	
Deepasree S Kumar	M.Sc.,	APG-III	Analysis	Nil	05	2m	4.2	
Keshava Reddy	M.Sc.,	APG-III	Computational Fluid mechanics	Nil	2.7	2m	2.9	
Ashwini	M.Sc.	APG-III	Data analytics	2				

11. List of senior visiting faculty:

Name	Qualification	Subject handled
C Somanath	Ph.D	Engg. Mathematics -I

12. Percentage of lectures delivered and practical classes handled (programme wise)by temporary faculty: Nil

13. Student-Teacher Ratio(programme wise): Supporting Department

14. Number of academic support staff(technical) and administrative staff; sanctioned and filled: Nil

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG:

Sl no	No of faculty
DSc/D Litt	00
Ph.D	06
M.Phil	02
PG	06

16. Number of faculty with ongoing projects from a)National b)International funding agencies and grants received: Nil

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received: Nil

18. Research Centre/facility recognized by the University Yes/No: yes

19. Publications:

    a) Publication per faculty

    Number of papers published in peer reviewed journals(national/ international) by faculty and students.

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. Areas of consultancy and income generated: Nil

21. Faculty as members in a) National committees b)International committees c)Editorial Boards Nil

22. Student projects

    a) Percentage of students who have done in-house projects including inter departmental/programme: NA

    b)Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: NA

23. Awards/Recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists/visitors to the department:

Name	Designation	Date of visit	Activity
Wade Ellis	Professor, University of California	23/11/2012	Special Talk
K C Gouda	Scientist, CMMACS	27/04/2013	Special Talk
P. K. Banerji	Emeritus Professor, J. N. V. University	12/03/2016	Invited Talk
DrIndraniPramodKhelkar	Assistant Vice President, Thinkcell learning Solutions Pvt. Ltd Academics.	14/03/2016	Invited Talk

25. Seminars/Conferences/Workshops organized and the source of funding
   a) **National -**Nil
   b) **International -**Nil

26. Student profile programme/course wise: NA

27. Diversity of Students: NA

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? NA

29. Student progression: NA

30. Details of Infrastructural facilities
   a) **Library:** Yes
   b) **Internet facilities for Staff and Students:** Provided
   c) **Class rooms with ICT facility:** Yes
   d) **Laboratories:** NA

31. Number of students receiving financial assistance from college, university, Government or other agencies: NA

32. Details on student enrichment programmes (special lectures/workshops/ seminar)with external experts:

Date	Activity	Resource person	No of participants
12/03/2016	Guest Lecture on "Mathematics – Trick or Treatment"	P. K. Banerji Emeritus Professor Former Head, Department of Mathematics Faculty of Science, J. N. V. University JODHPUR - 342 005, India	62
14/03/2016	Guest Lecture on "Mathematical Applications to Phenomenon Vibration"	DrIndraniPramodKhelkar Assistant Vice President, Academics, Thinkcell learning Solutions Pvt. Ltd. Hyderabad, AP, India.	65

Date	Activity	Resource person	No of participants
27/04/2013	Mathematical Modeling-Need for friendship of Mathematicians and Scientists in Face book era	K C Gouda Scientist, CMMACS, Bangalore	70
23/11/2012	Effective Mathematical teaching and learning with TI Nspire technology	Wade Ellis University of California, Santa Barbara	60

33. Teaching methods adopted to improve student learning:

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experimental	Any other
Yes	Yes					

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Date	Activity	No of Participants
11/09/2015	Mathematics Made Easy – (Vedic Mathematics for 8th and 9th class students) Jindal Jubilee Govt School, Abbigere,Bengaluru-90	120

35. SWOC analysis of the department and Future plans

Strengths:
1. Engaging students with mathematical answers.
2. Conducive environment for teaching learning.
3. Event based learning through Mathematical modeling approach
4. Support for conducting in GATE, Ph.D and other entrance exa

Weaknesses:
1. Less focus on industrial projects / researcher.
2. Lack of inter-disciplinary interaction.
3. Lack of training for faculty to relate theoretical concept to practical engineering situation.

Opportunities:

1. To provide multiple pathways in analyzing complex proble
2. Statistical analysis of data
3. Technology based / assisted teaching and learning

Challenges:

1. Teaching basic mathematical skills to the average student.
2. Integration of technology due to lack of mathematical software.
3. Promote inter-disciplinary collaboration involving technology among mathematics and other content area teachers.
4. Research programs in Mathematics and other cognate / inter related subjects.

Future Plan:

1. Start a PG course on Industrial Mathematics
2. Start a computational mathematics research centre

Physics

1. **Name of the department:** Physics

2. **Year of Establishment:** 2000

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

UG: Engineering Physics	PG: Nil	Ph.D: Physics

4. **Names of Interdisciplinary courses and the departments/units involved:** Nil

5. **Annual/ semester/choice based credit system (programme wise):** CBCS

6. **Participation of the department in the courses offered by other departments:** Nil

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
Nil

8. **Details of courses/programmes discontinued (if any) with reasons:** Nil

9. **Number of teaching posts:** 06

	Sanctioned	Filled
Professors	1	1
Associate Professors	1	0
Asst. Professors	4	5

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| Name | Qualification | Designation | Specialization | No. of Years of Experience | | | | No. of Ph.D. Students guided for the last 4 years |
				Industry	Teaching other than AIT	AIT	Total	
Mahesh S S	MSc, PhD	Professor and HOD, Dean	Solid State Physics	Nil	11.6	5.4	16	4
Manjunath H R	MSc, PhD	APG-II	Solid State Physics	Nil	9	3.6	12.6	02
Chanasekhar M	MSc, M.Phil, PhD	APG-III	Nuclear Physics	Nil	14	8.0	23	Nil
Mallikarjuna K S	MSc, M.Phil, (PhD)	APG-III	Nuclear Physics	Nil	7	5	12	Nil
Ashok Kumar Satpathy	MSc, (PhD)	APG-III	General Physics	Nil	12	3	15	Nil
Hemalatha D L	MSc	APG-III	Condensed Matter of Physics	Nil	Nil	7.2	7.2	Nil

11. **List of senior visiting faculty:** Nil

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty**

Name	Qualification	Subject handled	Percentage (semester wise load)
Rajashekar	Msc, BEd	Engineering Physics Lab	21 Units

13. **Student -Teacher Ratio (programme wise):** NA

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Category	Sanctioned	Filled
Lab Instructor	02	02
Teaching Assistant	01	01

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Sl no	No of faculty
DSc/D Litt	Nil
Ph.D	3
M.Phil	1
PG	2

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc. and total grants received

Name of the project	Funding agency	Year of Funding	Grant received
Development of cost effective rare earth activated terovskite structured Nano phosphorous display dosimetry and weld application	VGST (VGST/P-3/SMYSR/GRD-302/2013-14)	2013-14	600,000

18. Research Centre /facility recognized by the University   : Yes

19. Publications:

    a) Publication per faculty: 5

    Number of papers published in peer reviewed journals (national / International) by faculty and students

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. Areas of consultancy and income generated: Nil

21. Faculty as members in

    a) National committees b) International Committees c) Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
Mahesh S S	Member of Indian Society for Technical Education (MISTE) - Lifetime				
	IAENG-International Association of Engineers.				
	Editorial Board Chief and Member of Journals		1. Editorial board of Nano science and Nano engineering 2. AE International Journal of Science and Technology 3. World Research Journal of Applied Physics 4.International Journal of Applied Engineering Research and Technology 5.International Journal of advances in chemical Engineering		

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
Mahesh S S	Editorial Board Chief and Member of Journals		6.Journal of applied physics and research 7.Journal of advanced materials and technology 8.Journal of engineering research and technology 9.Journal of advanced composite materials 10.Advanced in structures and solids		
Chanasekhar M	Board of Examiner- Nanotechnology			2016-17	

22. Student projects

a) Percentage of students who have done in-house projects including inter Departmental/programme: NA

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: Nil

23. Awards / Recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists / visitors to the department

Name	Designation	Date of visit	Activity
N Ruaswamy	Professor, University of Bangalore, Bangalore	19/05/2015	Analysis of bio molecules
Shashank Bhatnagar	Professor	24/08/2013	Particle Physics
C Shivaram	Ex-Scientist, IIA, Bangalore	20/03/2013	Astronomy-The future

25. **Seminars/ Conferences/Workshops organized and the source of funding**
a) National b) International

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
National conference on recent advances in nano Science and Technology"(NARNT)	Two day(3rd and 4th May 2013	Self	108,000	55,000	36

26. **Student profile programme / course wise:**   NA

27. **Diversity of Students:**   NA

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?:** NA

29. **Student progression:** NA
Progression in the Department (Based on First year admission): NA

30. **Details of Infrastructural facilities**
a) Library: Yes
b) Internet facilities for Staff and Students: Yes
c) Class rooms with ICT facility: Yes
d) Laboratories: Two labs (As per AICTE norms)

31. **Number of students receiving financial assistance from college, university, Government or other agencies:** Nil

32. **Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts**

Date	Activity	Resource person	No of participants
19/05/2015	Analysis of bio molecules	N Ruaswamy" Prof Bangalore University, Bengaluru.	60

Date	Activity	Resource person	No of participants
24/08/2013	Particle Physics	Shashank Bhatnagar, Department of Physics, Addis Ababa University, Addis Ababa, Ethiopia.	60
20/03/2013	Astronomy-The future	C Shivaram, Ex. Scientist, Indian Institute of Astrophysics, Bangalore.	70

33. Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	Yes	Yes	Yes	Yes	Yes	

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Nil

35. SWOC analysis of the department and Future plans

Strengths

1. Good infrastructure, adequate number of classrooms
2. Well qualified faculty members with congenial atmosphere
3. Strong interaction between members and students

Weakness

1. Inadequate research laboratory and facilities to enthuse faculty members to compete with globally recognized institutes
2. Lagging in funded projects

Opportunity

1. Locational advantage for strengthening academia-industry linkages
2. Initiating consultancy with premier organizations
3. Exploring possibility of collaborative research with research institutions

Challenges

1. To start research activities for the development of the faculty members with available facilities in collaboration with nearby Universities and research institutes
2. Retention of quality and experience faculty/Staff in the department.
3. Involving students in basic research level along with their academic activities.

Future Plan

1. To receive the funding from various funding agencies for teaching and research activity
2. Collaboration with reputed Universities and industries
3. Exploring possibility of collaborative research with research institutions.
4. Initiating consultancy with premier organizations.

Master of Business Administration

1. **Name of the department:**   Master of Business Administration Department

2. **Year of Establishment:**   2006

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

UG	PG	Ph.D
Nil	MBA	(Business Administration)

4. **Names of Interdisciplinary courses and the departments/units involved:** Nil

5. **Annual/ semester/choice based credit system (programme wise):**
    Master of Business Administration
    - 2015-17 Batch: Semester Pattern
    - 2016-18 Batch: CBCS

6. **Participation of the department in the courses offered by other departments:**

Department	Subject offered with code
Bio-Technology	10AL51 – Entrepreneurship and Management 10BT81 – Project Management and IPR
Electronics and Communication	10AL51 – Entrepreneurship and Management
Electrical and Electronics	10AL51 – Entrepreneurship and Management
Civil Engineering	10AL51 – Entrepreneurship and Management
Construction Technology and Management	10CT55 - Construction Economics and Finance 10AL51 – Entrepreneurship and Management 15CT46 - Financial and Cost Accounting 10CT82 - Arbitration
Mining	10AL51 – Entrepreneurship and Management

7.   Courses in collaboration with other universities, industries, foreign institutions, etc.   Nil

8.   Details of courses/programmes discontinued (if any) with reasons: Nil

9.   Number of Teaching posts

Designation	Sanctioned	Filled
Professors	04	02
Associate Professors	04	04
Asst. Professors	06	20

10.   Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience				No. of Ph.D. Students guided for the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
N Venkatesh Kumar	MBA, MPhil, (PhD)	Asso. Prof and HOD	Marketing and Finance	2.5	7 .25	8 .25	18	
G Ramanaiah	MBA, MFM, PhD	Professor	Finance	Nil	19	5	24	
Prakash B Yaragol	M.Com, MBA PhD	Professor	Finance	2	16	5	23	
Prof. Kisholay Gupta	PGDPM, PGDBM	Asso. Prof	Management	33	4	5	41	
Satyapriya .J	MBA, Ph.D	Asso. Prof	HR	12.5				
Sandip Sane	MBA, Ph.D.	Asso. Prof	Marketing	6	8			
Archana Vijay	PGDM	APG-3	Marketing and IT	1.6	Nil	7	8.6	
Mahak Balani	MBA	APG 1	HR	Nil	17		17	

Name	Qualification	Designation	Specialization	No. of Years of Experience				No. of Ph.D. Students guided for the last 4 years
				Industry	Teaching other than AIT	AIT	Total	
Renuka devi	MBA,PhD	APG-1	Marketing		6			
Monica M	MBA	APG-3	HR	Nil	Nil	6	6	
Bhagyashree G Kasturi	MBA	APG-3	HR	Nil	Nil	5	5	
Omprakash C	MPhil, MBA	APG-3	Operations Management	15	16	2	33	
Ganesh Babu M	MBA, PhD	Assistant Professor	Marketing	Nil	7	10	17	
Suhas Patel	MBA	APG-3	Marketing	2	3	2	7	
Reena Mahesh Rao	MBA	APG-3	Finance and Marketing	3.5	1.6		5	
Sathyanarahaya Krishnamurthy	MBA	APG-3	Management					
Amita Yadav	MBA	APG-3	HR and Marketing	7				
Saptharshi Mukherjee	MBA	APG-3	Finance		8			
Keerthi H.K	MBA	APG-3	Management		4	2		
Chandrika L V	MBA	APG-3	Finance	4				
Gangadhar isvi	MBA	APG-3	Marketing	4	7			
Reshma	MBA	APG-3	Finance	1	3			
Swati Arora	MBA	APG-3	Finance		2			
Shruthi K	MBA	APG-3	Finance					

11. List of senior visiting faculty

Name	Qualification	Subject handled
Prof. Vivek Rajapadmanabhan	(PhD)	Research Methods, Strategic Management, Entrepreneurial Development
Ajith Kumar Das	MBA	Marketing

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty   Nil

13. Student -Teacher Ratio (programme wise):   20:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Category	Sanctioned	Filled
Office Assistant	1	1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Sl no	No of faculty
DSc/D Litt	
Ph.D	6
M.Phil	2
PG	16

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received   Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received   Nil

18. Research Centre /facility recognized by the University: Yes

19. Publications:

a) Publication per faculty

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

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. Areas of consultancy and income generated

Name of Faculty(ies)	Area	Income generated
Nijaguna G		
Venkatesh Kumar	Human Resource	Rs. 2,25,000
Gururaj B Urs		

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
Ramanaiah G	Board of Studies	Yes			
Prakash B Yaragol	Board of Examination			Yes	

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

		Percentage
No of Students	180	
No of in-house projects		
No of Inter dept projects		
No of Projects in R and D Labs		
No of Projects in Industry	180	100
Others		

23. Awards / Recognitions received by faculty and students

Name	Award/Recognition	Agency	Year
Naveen Dattatreya Hegde	VTU Topper (I Rank-Gold Medalist)	VTU	2016
Nallagatla Shwetha	VTU Topper (2nd Rank)	VTU	2016

24.   List of eminent academicians and scientists / visitors to the department

Name	Designation	Date of visit	Activity
Haja Mohideen	President and CEO, Rocheston LLC, New York, USA	22/02/2017	Innovation Strategy (Disruptive technologies, IoT)
Omkar	Director – HR, SKF Technologies India Pvt. Ltd.	25/11/2016	Employability
Prasad Prabhakar	Director – HR, Trianz Holdings, USA	11/11/2016	Competencies required for today's corporate world
Philip Laird	Vice President, Trinity Western University, Canada	04/10/2016	Strategic Leadership

25.   Seminars/ Conferences/Workshops organized and the source offunding

   a) National   b) International

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
National					
National Symposium On Innovative Practices In Management	25/04/2014 and 26/04/2014	Institute	1,02,840	36,000	38
Fdp On Financial Modelling And Stock Market Analysis	12/09/2014 and 13/09/2014	Institute	36,087	23,174	110
National Conference On Rural Entrepreneurship Opportunities and Challenges	25/04/2014	Institute	97,000	52,500	50
International					
International Conference On Trends In Automation, Communication And Computing Technologies	21/12/2015 and 22/12/2015	Institute			50

26.   Student profile programme / course wise:

Name of the programme (Management seats)	Year	Applications received	Selected
Master of Business Administration	2013-14	102	74
	2014-15	93	73
	2015-16	56	34
	2016-17	52	30

27.   Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
MBA	80	18	2

28.   How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : Nil

29.   Student Progression: Nil

Progression in the Department (Based on First year admission)

No/year	Intake	Year1	Year2	Year3	Year4	% Year 2	% Year3	% Year4
2012-13	240	209	206			99		
2013-14	240	177	172			97		
2014-15	240	186	186			100		

- Percentage based on first year admission

30.   Details of Infrastructural facilities

a) Library: Yes
b) Internet facilities for Staff and Students: Yes
c) Class rooms with ICT facility: Yes
d) Laboratories: Not Applicable

31.   Number of students receiving financial assistance from college, university, government or other agencies

No of Students	College	University	Social welfare	Merit	Other
178	16	NA	54	NA	NA

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

Date	Activity	Resource person	No of participants
17/3/2014	Guest lecture	TKS Narayanan Zonal Director LIC	104
25/3/2014	Guest lecture	Nandini Chawla CEO, TVRLS	90
25/3/2014	Guest lecture	Manoranjan Sharma, Chief Economist, Canara Bank	90
25/4/2014	Guest lecture	Arun Bharadwaj, Asia –pacific Director Global Alliance, Dell	60
25/4/2014	Guest lecture	Nandini Chawla CEO, TURLS	60
25/4/2014	Guest lecture	Mahidhara Davanagere, MD, Pramathra Investments	60
25/4/2014	Guest lecture	Shrinivas Narayan, Senior Consultant	50
25/4/2014	Guest lecture	Pro. Rajan L P, Principal, Vasavi Institute of Management	50
16/5/2014	Guest lecture	Narayana Gowda, Vice Chancellor, University of Agricultural Sciences	110
5/8/2014	Guest lecture	Geetha Ramakrishna, Consultant	108
10/8/2014	Guest lecture	Shaju John, HR Leader	85
12/9/2014	Guest lecture	Thenmozhi, Professor, IIT Chennai	80
13/9/2014	Guest lecture	P Varadharajan, BGIM, Coimbatore	100
23/9/2014	Guest lecture	Sumathi, Regional Director, ICICI Bank	75
23/9/2014	Guest lecture	David, entrepreneur	110
23/9/2014	Guest lecture	Ritheesh Pandya, Managing Director	115
21/11/2014	Guest lecture	Prasanna Chandra, Director, CFM	100
21/11/2014	Guest lecture	Narahari, Director, Corporate Communication Texas Instruments	80
21/11/2014	Guest lecture	Kishan Cariappa, AGM-Hr Admin Volvo Construction Equipment	90
19/3/2015	Guest lecture	Anirudh Sharma, Innovator and Co-Head MIT Media Lab India	Strengthening the roots through Innovation

Date	Activity	Resource person	No of participants
19/3/2015	Guest lecture	Vani Murthy, Green Campaigner Green Initiatives	Waste Management and Greener Earth
25/04/2015	Guest lecture	Srikrishna S Murthy, CEO Sattva Media and Consulting (P) Ltd.	Rural Entrepreneurship - Opportunities and Challenges
22/05/2015	Guest lecture	Rajdeep Manwani, Professor Jain University	Self Commitment - Success in career
22/05/2015	Guest lecture	Arun Shivaram, Director-Global Technical Centre	360° Problem solving - An effective tool for organisational success
11/8/2015	Guest lecture	Sanjay M Datta, Programme Head SPSS South Asia	Business Analytics - An overview through SPSS
28/09/2015	Guest lecture	Kalyan Kumar P, AGM - Business Development, Positive Edge Technology Pvt. Ltd.	Microsoft Excel - An effective tool for Data Analysis and Presentation
2/10/2015	Guest lecture	Seetha Nesarathnam, Professor,Asia Pacific University of T and I	Challengens in hiring international intellectual capital
2/10/2015	Guest lecture	Rohizan, Professor,Asia Pacific University of T and I	Supply chain strategies in International marketing
2/10/2015	Guest lecture	Nur Azam, Professor,Asia Pacific University of T and I	Malaysian financial system and new business opportunities
20/10/2015	Guest lecture	Gopinath, General Manager-PR,Toyota Kirloskar (P) Ltd.	Plant layout decision for Automobile companies
31/10/2015	Guest lecture	Gaurang H Shah, Vice President, Geojit BNP Paribas	India Capital Market - Trends and opportunities
25/11/2015	Guest lecture	Kodandaram, DGM-HR, VST Tillers and Tractors Ltd.	Modern equipments for enhanced agricultural productivity
27/11/2015	Guest lecture	Kirtiman Sharma, Director and Serial Entrepreneur, Mabbit Communications (P) Ltd.	Jump Start career - Career Mastery
27/11/2015	Guest lecture	Anu Ibrahim, Senior Manager - Legal, State Bank of Mysore	Legal aspects of Banking
30/11/2015	Guest lecture	Sriram, Professor, Retired Professor from US University	Case method of solving organisational problems

Date	Activity	Resource person	No of participants
2/12/2015	Guest lecture	S Sargen, Assistant Manager - PR, Karnataka Soaps and Detergents Ltd.	Perspectives and Challenges in sandal soap manufacturing
12/12/2015	Guest lecture	Poornachandra, DGM-PR, Visvesvaraya Iron and Steel Plant	Indian Steel sector - Perspectives and Challenges
4/5/2016	Guest lecture	Ashokan, Director, De-Quest Management Services	Lean Management and Siz Sigma Practices
11/5/2016	Guest lecture	Rajarshi Choudhury, Head-HR, Amadeus Software Labs	Future corporate challenges
16/8/2016	Guest lecture	Ravi Sharma, Consultant, TV Rao learning systems	Leadership Challenges
16/8/2016	Guest lecture	Mousmi, Consultant, TV Rao learning systems	Forms of Leadership
24/9/2016	Guest lecture	Jagadish Naik, Head-Talent acquisition and PM, Scania India	EmpRiseAbility
24/9/2016	Guest lecture	Sunil Yajaman, Head-Corporate Affairs, ACT Fibernet	Aspire and Inspire
4/10/2016	Guest lecture	Philip Laird, Vice President, Trinity Western University, Canada	Strategic Leadership
11/11/2016	Guest lecture	Prasad Prabhakar, Director - HR, Trianz Holdings, USA	Competencies required for today's corporate world
25/11/2016	Guest lecture	Omkar, Director - HR, SKF Technologies India Pvt. Ltd.	Employability
10/12/2016	Guest lecture	Sridip Sarkar, Lead Consultant, Sapient Consulting	Investment Banking - An insight perspective
22/2/2017	Guest lecture	Haja Mohideen, President and CEO, Rocheston LLC, New York, USA	Innovation Strategy (Disruptive technologies, IoT)

33. Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experimental	Any other
Yes	Yes	Yes	NO	Yes	Yes	NA

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Date	Activity	No of Participants
5/10/2012	Orphanage visit	35
14/9/2014	Orphanage visit	40
15/3/2014	Orphanage visit	40
2/11/2014	Orphanage visit	40

35. SWOC analysis of the department and Future plans

Strengths:

1. Competent faculty, blended with academic and industry experience and high team cohesiveness
2. Adoption of innovative teaching methods including case studies, industrial visits etc
3. Good facilities for research including tools for data analysis(Accord Fintech., SPSS
4. Membership of RAI AIMA, CII, NIPM etc and good rating by ICRA and others

Weaknesses:

1. Case development pertaining to local and regional needs
2. Research and Consultancy
3. Extension activities

Opportunities:

1. Improved collaboration with industry and academic institutions
2. Opportunities for consultancy with industry/others
3. Students-faculty exchange program with the foreign universities/institutions
4. Further enhancing value added courses to students

Challenges:

1. Internship placement
2. Validation of curriculum
3. Attract more students to join management program

Future plans:

1. Obtaining accreditation from NBA
2. Value added certificate programs to Corporates
3. International FDP/MDP

Master of Computer Applications

1.   **Name of the Department :**Master of Computer Applications

2.   **Date of Establishment**::**2002**

3.   **Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.):**

UG:	PG:	Ph.D:
Nil	MCA	VTU, Research Centre

4.   **Names of Interdisciplinary courses and the departments/units involved:** Nil

5.   **Annual/semester/choice based credit system (programme wise):**
        I and II Sem.   CBCS
        III to VI Sem   Semester scheme

6.   **Participation of the department in the courses offered by other departments :** Nil

7.   **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
                                Nil

8.   **Details of courses/programmes discontinued (if any) with reasons:** Nil

9.   **Number of teaching posts**

	Sanctioned	Filled
Professors	04	00
AssociateProfessors	08	01
Asst.Professors	24	35
Total	36	36

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil. etc.,)

| Name | Qualification | Designation | Specialization | No.ofYears of Experience | | | | No.ofPh.D. Studentsguidedfo rthelast4years |
				Industry	Teaching other than AIT	AIT	Total	
Ramesh Hedge	MCA, Ph.D.	Asso.Prof	Image Processing			22	22	
Rosita Kamala F	MCA, ME	APG-I	Data Mining		7	8	17	
Narasimha Murthy G K	M.Tech, MCA	APG-II	Data Mining, Information Retrieval		3	13	16	
Susmita J A Nair	MCA	APG-II	Cloud Computing			13	13	
Anitha K L	MCA	APG-III	Cloud Computing	0.6		10	10.6	
Indumathy M	MCA	APG-III	Security			9	9	
Rajesh Rao K	MCA	APG-III	Networking		3	9	12	
Sridevi T N	MCA, M.Tech	APG-III	Image Processing		2	9	11	
Prathibha. S.B	MCA, M.Tech	APG-III	Computer Networks	1		9	10	
Manish Kumar Thakur	MCA	APG-III	Java and J2EE, Web and Web 2.0			7.2	7.2	
Kalpana K	MCA	APG-III	Image Processing		1	6	6	

Name	Qualification	Designation	Specialization	No.ofYears of Experience				No.ofPh.D. Students guidedforthe last4years
				Industry	Teaching other than AIT	AIT	Total	
Shashikanth Reddy	MCA	APG-III	Advance Algorithms, Networking		1	7	8	
Kavitha M S	M.Tech	APG-III	Soft Computing	4.3		4.8	8.11	
Sreeparna Chakrabarti	MCA	APG-III	Image Processing			5	5	
Ramakrishna Reddy K	MCA	APG-III	Big Data Analytics	2		4	6	
Venkatesh H	MCA	APG-III	Network		3	3	6	
Sushmasree Y J	MCA	APG-III	CN					
Pushpalatha M	MCA	APG-III	CN					
Shivalingayya GM	MCA	APG-III	CN					
DebasmithaChakraborthy	MCA	APG-III	CN					
Bincy	MCA	APG-III	MMS					
Anjali T M	MCA	APG-III	MMS					
Chandini J	MCA	APG-III	MMS					
Bhavya Shree	MCA	APG-III	MMS					
AkshayaAnvekar	MCA	APG-III	MMS					

Name	Qualification	Designation	Specialization	No.ofYears of Experience				No.ofPh.D. Students guidedforthe last4years
				Industry	Teaching other than AIT	AIT	Total	
Anoop D M	MCA	APG-III	Web Tech					
AnirbanMitra	MCA	APG-III	Web Tech					
AshwiniVaijinath	MCA	APG-III	Web Tech					
BalteRadhaGhaleppa	MCA	APG-III	Advanced Java					
Bhavin Kumar Patel	MCA	APG-III	Advanced Java					
Chaitra	MCA	APG-III	Cloud Computing					
Devipriyanka A	MCA	APG-III	Cloud Computing					
Divyashree H N	MCA	APG-III	Cloud Computing					
DushyanthKumari N S	MCA	APG-III	ADA					
Akshata H	MCA	APG-III	ADA					
Kavana P K	MCA	APG-III	ADA					

11. **List of senior visiting faculty** Nil

12. **Percentage of lectures delivered and practical classes handled (programme wise)**
By temporary faculty Nil

13. **Student-Teacher Ratio (programme wise)** 20:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Category	Sanctioned	Filled
Programmer	1	1
Instructor	2	1
Jr.Assistant	1	1

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

Sl no	No. of faculty
DSc/D Litt	
Ph.D	1
M.Phil	2
PG	35

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received** Nil

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received** **Nil**

18. **Research Centre/facility recognized by the University: Yes**

MCA- Research Centre - VTU

19. **Publications:**

a) Publication per faculty

Publications of the faculty in international journals, national journals, international conferences, national conferences, books authored / edited / chapter contribution are enclosed in Self Study Report: Volume II, Part II.

20. **Areas of consultancy and income generated:** Nil

21.   Faculty as members in
   a) National committees b)International Committees c)Editorial Boards

Name of Faculty	Committee Details	BOS		BOE	
		VTU	Other	VTU	Other
Prathibha S.B					National College(Autonomous) Bangalore University

22. Student projects:

   a) Percentage of students who have done in-house projects including inter Departmental/programme: Nil

   b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ otheragencies

	Percentage
No of Students	100
No of in-house projects	
No of Inter dept projects	
No of Projects in R and D Labs	
No of Projects in Industry	70
Others	30

23. Awards/Recognition received by faculty and students:

Name	Award/Recognition	Agency	Year
Manish kumar Thakur	Best Mentor Award, "Best mentor Award for 2014"	IBM	2014

24. **List of eminent academicians and scientists/visitors to the department:**

Name	Designation	Date of visit	Activity
M.G Patil	H.P India Limited	31/8/2013	Advanced Web Technologies And Latest Trends, a talk
Santanu Das and Aditi Pal	Tata Elxsi Manhattan	6/9/2013	Approach to latest Trends in IT Industry, a talk
Shivakanth U,	HP India limited	28/9 /2013	Simulation, a talk
Amrendrajha,	Silvan innovations ltd	26/10/2013	Application of Android, a talk
Sachin,	IBM	4/11/ 2013	TGMC, a talk
Budhan	IBM	8/11/ 2013	e-disha Fresher's day
PhanindraRao	Principal Engineer, Aspect Technologies Pvt. Ltd	10/09/2014	Blue mix Hackathon event
Naveen Agarwal	Global Institute of Electrical and Electronics Engineering on	27/09/2014	A Career Development Seminar On "New Trends In Web Technologies
Naman Shah,	SAS Solution Architect and Senior Vice President	10/10/2014	Sas And Big Data Workshop
Aditya Singh,	Business Development Associate addressed on Business Process Optimization solutions.	10/10/2014	Sas And Big Data Workshop
Dharmesh	Centre Manager of Epoch Research Institute India Pvt. Ltd	10/10/2014	Sas And Big Data Workshop

Name	Designation	Date of visit	Activity
Padmashri R M Vasagam	Former Vice Chancellor, Anna University	5/12/2014 and 6/12/2014	National Conference [TECHMAN-14]
K Rajanikanth,	Former Principal MSRIT	5/12/2014 and 6/12/2014	National Conference [TECHMAN-14]
PhanindraRao	Principal Engineer, Aspect Technologies Pvt	10/09/ 2014	a speech on various opportunities available in IT industries and the applications of computer science
Lohit YC	Amadeus Software labs	25/04/ 2015	Software Architecture and Framework"
GopalLingsur,	Founder and Director, Academy of Testing Practices	19/02/ 2016	A talk on software practices and opportunities.
Shubha p,	Cognizant technology solutions	4/05/ 2016	MAVEN- A build tool dated MAVEN simply means "Accumulation of Knowledge".
Mahantesh,	Co-founder and CEO, Knee kite IT Solutions Pvt Ltd	28/04/l 2016	Talk on " Passion and Startups"
SarithaDevpunje-	Director, Magneton Technologies	20/11/ 2016	E-disha Forum Activity "Industry Expectations and how to crack interview"
Premasudha,	Prof MCA,SIT Tumkur	7/11/ 2016	Invited Talk "Selection of interdisciplinary topics for projects in internships"
Srinivas,	Technical Head BGS Info tech	7/11/ 2016	Carrier Guidance and Internships

25. Seminars/Conferences/ Workshops organized and the source of funding

a) National   b) International

Seminar/ Conference/ Workshop	Duration with dates	Funding agency	Amount of fund	Amount funded by Institution	No of participants
National					
Techman 13	27/12/2013 and 28/12/2018				
Techman 14	5/12/ 2014				48
International					
ITACT - 15	21/12/2015 and 22/12/2015	ISRO	75,000	5,00,000/-	51
Workshop					
Workshop on "Python Programming	24/01/2017 and 25/01/2017			16,900/-	44

26. Student profile programme/ coursewise:

Name of the programme (Management seats)	Year	Applications received	Selected
Master of Computer Applications	2013-14	78	50
	2014-15	72	45
	2015-16	43	22
	2016-17	37	21

27. Diversity of Students

Name of the Course MCA	% of students from the same state	% of students from other States	% of students from abroad
2013 – 2014	65	35	0.6
2014 -2015	76	24	0.7
2015-2016	77	23	
2016-2017	77	23	

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

	Year	No	Year	No	Year	No	Total
NET							
SLET							
GATE							
Civil services					Nil		
Defense services							

29. Student progression:

Studentprogression	Against%enrolled
UGtoPG	Nil
PGtoM.Phil.	Nil
PGtoPh.D.	1
Ph.D.toPost-Doctoral	Nil
Employed •Campusselection •Other than campus recruitment	55 45
Entrepreneurship/Self-employment	11

Progression in the Department (Based on First year admission)

No/year	Intake	Year1	Year2	Year3	% year 2	%Year3
2013-14	240	182	169+5=177	170	93	91
2014-15	240	156	133+1+45=179	170	85	84
2015-16	240	101	86+5+46=137		85	
2016-17	240	81				

- Percentage based on first year admission

30. Details of Infra structural facilities:

a) **Library**

No. of Title: 1931

No. of Volumes: 11354

 b) **Internet facilities for staff and students:**

Broad band connectivity of

1) 120Mbps – Railtel
2) 10Mbps – BSNL
3) Campus is enabled with Wi-Fi facility

c) **Class rooms with ICT facility:**4 Class Rooms with LCD

d) **Laboratories:** 4 Labs with 181

31. Number of students receiving financial assistance from college, university, government or other agencies

Year	No of Students	College	University	Social welfare	Merit	Other
2013-14	146	3		Taluk social welfare office DTE scholarship [Above 2.5 lakh] for SC OBC Scholarship BCM Scholarship		Kitthur Rani Chennamma PrathibhaPuraskar
2014-15	153					
2015-16	160	2				
2016-17	166					

32. **Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts (For 2015-16)**

Date	Activity	Resource person	No of participants
31/08/2013	Advance Web Technologies And Latest Trends A Talk	M.G PatilH.P India Limited	120
06/09/2013	Approach To Latest Trends In It Industry	Santanu DasAditi PalTata Elxsi Manhattan	120
27/09/2013	New Trends In Web Technologies	Naveen Agarwal Global Institute Of Electrical And Electronic Engineering	120
28/09/2013	Simulation - A Talk	Shivakanth .U H.P India Limited	120
26/10/2013	Application Of Android	AmendraJha Silvan Innovations Ltd	120
04/11/2013	Tgmc	Sachin, IBM	120
08/11/2013	Project Seminar	Budhan, IBM	120
30.08.2014	" Opportunities With Cloud Computing And Other Technologies	Gopalakrishna Tekinar Ltd	120
10/10/ 2014	Sas And Its Use For Big Data Analytics	Naman Shah Sas Solution Architecture	120
25/04/2015	Software Architecture and Framework	Lohith Y C Amadeus Software Lab	120
30/10/2015	Enterprise Service Bus And Web Methods Integration Product Suite	Sahana M S Software Ag	120
19/02/2016	Software Testing	GopalLingsur Academy Of Testing Practices	120
4 /05 2016	MAVEN- A build tool	Shubha p, cognizant technology solutions	44

Date	Activity	Resource person	No of participants
28/04/ 2016	Passion and Startups	Mahantesh, Co-founder and CEO, Knee kite IT Solutions Pvt Ltd	
20/10/2016	Industry Expectations and how to crack interview	SarithaDevpunje- Director, Magneton Technologies pvt	120
7/11/2016	Carrier Guidence and Interships	Srinivas, Technical Head BGS Info tech	180
7/11/2016	Selection of interdisciplinary topics for projects in internships	DrPremasudha, Prof MCA,SIT Tumkur	170

33. Teaching methods adopted to improve student learning

Chalk and Talk	Use of ICT	Demonstration	Experimentation	Collaborative	Experiential	Any other
Yes	Yes	Yes		Yes	Yes	MOOC,

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Date	Activity	No of Participants
21st and22nd Dec 2017	Internet world Programme	60

35. SWOC analysis of the department and future plans

Strength

1. MOU with IBM having "IBM software center of excellence".
2. Competent faculty resulting in year wise university ranks.
3. Strong mentorship and Proctorial system that monitors the development of the students.
4. Research center and congenial research environment , where in large number of faculty have registered for Ph.D

Weakness

1. Lack of campus placement opportunity for MCA student.
2. Consultancy and extension activities need improvement.
3. Industry and institution interaction needs to be strengthened further.

Opportunity

1. Expansion of community work.
2. Twinning program / projects collaboration with other universities.
3. Providing more opportunities for students to attend conferences, workshop and training at international level.

Challenges

1. Declining admission and quality of students.
2. Availability of qualified/ doctorial faculty.
3. Rapidly changing technologies, tools in IT industry to synchronize with the present day requirement.

Future Plans:

1. Improve industry contacts, and placements.
2. Create more awareness on tools and technologies in the job market.
3. Get more funded project.