

Evaluative Report of the Department

1. Name of the Department : Department of Information Technology
2. Year of Establishment : 1999
3. Is the Department part of a school / Faculty of the university?
: Yes. Department of Information Technology is a part of School of Computer Science & Technology
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., D.Sc., D.Litt., etc.)

Name of the Programme	specialization	Duration	Fulltime / part-time
B.Tech.	Information Technology	4 years	Fulltime
M.Tech.	Network and Internet Engineering	2 years	Fulltime
M.Tech.*	Multimedia Technology	2 years	Fulltime
M.Tech.**	Information Technology	2 years	Fulltime
Ph.D.	Information Technology	2 years 3 years	Fulltime & Part-time

*Course offered till May 2014

** Course offered form June 2014

5. Interdisciplinary programmes and departments involved:
Interdisciplinary Programmes: M.Tech. Multimedia Technology (CSE/IT/EMT)

Interdisciplinary Course: 12CE257 – Intelligent Building
(EEE/ECE/EIE/CSE/IT/Mech)

Interdisciplinary Research:

S.No	Name of the faculty members and Dept.	Title of the Interdisciplinary Project	Outcomes
1	Dr. D. Sujitha Juliet (IT - Karunya Univ.) & Mr. S. Saravanan, (EMT - Karunya Univ.)	Medical Image Compression	Ph.D Thesis

6. Courses in collaboration with other universities, industries, foreign institutions etc.:
M.Tech in Information Technology course is offered in collaboration with Novell Software Development (India) Pvt. Ltd., Bangalore from June 2014. The following are the subjects which are designed by Novell Software Development (India) Pvt. Ltd, Bangalore.
 - NetIQ Access and Identity Management
 - Introduction to System Administration (SUSE Linux)
 - Cloud Computing Services (SUSE Cloud)
 - Applied Security Lab (NetIQ Products)
 - System Administration Lab (SUSE Linux)
 - Cloud Computing Lab (SUSE Cloud)

• Add-on Courses:

S.No	Name of the Organization	Nature of Collaboration	Outcome
1	Novell Software development (India) Pvt. Ltd., Bangalore	Certification Courses of NCLA	1. 62 students trained on NCLA 2. 5 Students received NCLA certification. 3. 2 faculty members become certified.
2	CISCO Systems, Bangalore	Certification courses on CCNA & CCNP	1. 204 students trained on CCNA. 2. Conduct of wireless networks lab for PG students. 3. Two Packet tracer workshops. 4. 15 UG & PG projects carried out.
3	Red Hat India P.Ltd, Pune	RHCE certification programme	1. FDP on Red Hat Certified System Administration – 24 Nov – 28 Nov 2014. 2. Certification classes: 37 students are benefited.
4	Oracle India Pvt Ltd	OCA & OCP - Oracle 11g certification courses	1. Technical event 'Oracle Day' on 8 August, 2014. 2. Seminar on Big Data and Emerging Trends on 8 August, 2014 3. Oracle event Debacle'13 on 8 Feb, 2013. 4. 241 students are benefitted in the last 3 years.
5	Infosys Technologies	1. Infosys Campus Connect Foundation Programme, Soft skill programme. 2. Aspirations 2020 Programming Contests - Every Year. 3. Infosys i-Innovate Project Contest 4. Elective subjects	5. 241 students trained on Infosys Campus Connect. 6. 15 faculty members are trained by Infosys. 7. Various webinars in current trends. 8. Electives subjects on Business Intelligence

7. Details of programmes discontinued, if any with reasons:

S.No	Name of the Program discontinued	Reasons
1	MTech in Multimedia Technology	<ul style="list-style-type: none"> • Less takers • The course has been replaced with MTech in Information Technology which is supported by Novell Inc, USA.

8. Examination system: Semester system / CBCS

 9. Participation of the department in the courses offered by other departments
(Please refer Appendix C-1)

10. Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Assistant Professors / others)

Teaching post	Sanctioned	Filled / Actual
Professor	2	--
Associate Professor	4	2
Assistant Professors	13	17
Others	--	--

S.No	Name	Designation	Qualification	Specialization	No. of years of experience	No. of Ph.D. students guided for the last 4 years
1.	Dr. J. Dinesh Peter	Associate Professor & HoD	M.Tech, P.hD	Image Processing	13 Years	6
2.	Dr. S. Salaja	Associate Professor	ME., PhD	Pervasive Computing	13 yrs 6 months	3
3.	Mr. R. Venkatesan	Assistant Professor	ME	Grid computing	12 yrs 2 months	--
4.	Dr. D. Sujitha Juliet	Assistant Professor	ME., PhD	Image processing	12 yrs 2 months	1
5.	Mr. P. Blessed Prince	Assistant Professor	ME	Pervasive computing	11 yrs 2 months	---
6.	Mr. G. Edwin Prem kumar	Assistant Professor	ME	Wireless sensor networks	12 yrs	--
7.	Dr. G. Jasper W. Kathrine	Assistant Professor	ME., PhD	Grid computing	14 yrs and 9 months	--
8.	Mr. E. Bijolin Edwin	Assistant Professor	ME	Cloud computing	7 yrs 2 months	--
9.	Mrs. Esther Daniel	Assistant Professor	ME	Cloud computing	9 yrs 4 months	--
10.	Mrs. S. Durga	Assistant Professor	ME	Cloud computing	11 yrs 2 months	--
11.	Mrs. P. Getzi Jeba	Assistant Professor	ME	Cloud computing	11 yrs 2 months	--
12.	Mrs. M. Princy	Assistant Professor	ME	Cloud computing	6 yrs 2 months	--
13.	Mr. P. Suresh	Assistant Professor	ME	Image Processing	6 yrs and 11 months	--
14.	Ms. S. Seetha	Assistant Professor	ME	Network security	8 yrs 2 months	--
15.	Ms. T. Jemima Jebaseeli	Assistant Professor	ME	Image Processing	8 yrs 10 months	--
16.	Mrs. D. Narmadha	Assistant Professor	ME	Data mining	4 yrs 2 months	--
17.	Mrs. S. Jebapriya	Assistant Professor	ME	Cloud computing	5 yrs and 2 month	--
18.	Mrs. G. Adlin Sheeba	Assistant Professor	M.E	Cloud computing	6 yrs 7 months	--
19.	Mr. B.L.Radhakrishnan	Assistant Professor	M.Tech	Image processing	6 yrs	--
20.	Ms. P. Bindhu Shamily	Assistant Professor	M.Tech	Multimedia Technology	2 Years 4 Months	--
21.	Mr.S. Manoj Kumar	Assistant Professor	M.E	Wireless Sensor Networks	12 Years	--

12. List of Senior Visiting Fellows, adjunct faculty, emeritus professors

S.No	Name	Designation	Specialization
1	Dr. E. Kirubakaran	Addl. Gen. Manager, BHEL - Trichy	Networks Cloud Computing Pervasive Computing Web services E-learning

13. Percentage of classes taken by temporary faculty – programme-wise information:

Academic Year	No. of Temporary Faculty	Percentage of Classes handled by Temporary Faculty
2011-2012	2	12.2%
2012-2013	2	13.3%
2013-2014	1	13%
2014-2015	--	-

14. Programme-wise Student-Teacher Ratio (2014-2015)

Name of the Programme	No. of faculty	No. of students	Student-teacher ratio
B.Tech.	18	378	1:21
M.Tech.	3	48	1:16
M.Phil.	--	--	--
Ph.D.	-	-	-

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual.

No. of	Sanctioned	Filled
Technical Staff	1	1
Administrative staff	1	1

16. Research thrust areas as recognized by major funding agencies

- Advanced computing
- Image processing
- Computing security
- Networking & Wireless Sensor Networks
- Computational Intelligence & Soft Computing

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Name of the faculty with designation	Title of the Project	Funding agency	Grants received in Rs.	Communication reference No. with date
Dr. S. Salaja (Co-Investigator)	Effective Patient Friendly IT enabled tool for selection of desired health care services	ICMR	Rs. 14,83,880	Ref No: ADHOC/2010/12/HSR dated 26/11/2013

21. Special research laboratories sponsored by / created by industry or corporate bodies

Novell Centre of Excellence for Cloud Computing

Novell Inc, USA has sponsored Rs. 22 Lakhs worth software products to this Centre of excellence for enabling our M.Tech. Information Technology students to do lab experiments.

22. Publications

Number of papers published in peer reviewed journals (national / international) is given below:
For details please refer **Appendix C-2 and C3)**

	2011	2012	2013	2014	2015
No. of papers published in peer reviewed journals (national/ international)	1/2	0/6	0/8	0/4	0/3
Monographs	0	0	0	0	0
Chapters in Books	0	1	0	0	1
Edited books/Books with ISBN	0	0	0	0	0
No. of papers listed in Scopus	3	6	8	4	3
Citation index – range / average :	0-1/0.66	1-45/9.6	1-18/3.37	0-1/0.25	0-2/0.66
SNIP	0	0.325	0.763	0.730	0.754
SJR	0	0.108	0.251	0.255	0.5
IPP	0	0.264	0.615	0.444	0.601
Impact Factor – range / average:	0-0.835/0.27	0.39-0.657/0.16	0.979-1.156/0.55	0.070-0.536/0.25	1.2-1.7/0.96
h-index	1	1	2	2	1

23. Details of patents and income generated:

Patent Applied:

Name of the Project: A Remotely Operated Communication System for Women facing anti-social threats

Name of the Guide: Mr. P. Blessed Prince, Assistant Professor,
Dept. of Information Technology

Name of the Students:

1. Mr. George Abraham (PR12IT1004) ,
2. Mr. Anandhu Mohan (UR10IT047) ,
3. Mr. N. Girish (PR12IT1006)

24. Areas of consultancy and income generated

Name of the faculty with designation	Nature of consultancy services offered	Amount generated in Rs.	Date	Remarks
Ms. T. Jemima Jebaseeli, Assistant Professor	SEESHA KRCH	(Social Service)	12 th December 2012 – 31 st July 2013	Project completed
Ms. T. Jemima Jebaseeli, Assistant Professor	Biotechnology lab automation	Rs.5,000	11 th October 2013 – 26 th July 2014	Project completed
Ms. T. Jemima Jebaseeli, Assistant Professor	Digital web portal for Central Library	Rs.5,000	10 th September 2013 – 28 th February 2014	Project completed

Mr. R.Venkatesan, Assistant Professor	University Placement Portal	-	6 th October 2014 to 20 th March 2015	Project Completed
Mr. R. Venkatesan Assistant Professor	Digitization of Karunya Land Records	Rs.10,000	November 2015 to Feb 2016	Project Ongoing
Mrs. T. Jemima Jebaseeli, Assistant Professor	Mobile App for Karunya Land details and Navigation	Rs.25,000	November 2015 to April 2016	Project Ongoing

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

S. No	Name of the Faculty	laboratories / institutions / industries / Conference	National / International (Country visited)	Date
1	Dr. J. Dinesh Peter	Intl. Conf. on Mass Data Analysis <u>Organizer:</u> Ibai - Germany	International (NewYork, USA)	July 15-17, 2013
2	Dr. J. Dinesh Peter	Novell Software Development (India) Pvt Ltd, Bangalore	National Brain Share Technical Forum.	07 January 2014
3	Dr. J. Dinesh Peter	Odessa Technologies, Bangalore	HR Meet	24 th & 25 th June 2014

26. Faculty serving in

- a) National Committees : -
- b) International committees: -
- c) Editorial Boards :
- d) any other (please specify)

Name of the faculty with designation	Name of the Board / Details	Position held	Duration
Dr. S. Salaja	Journal of Super Computing -springer	Reviewer	March 25, 2013
Dr. S. Salaja	International journal of computer applications, Acta Press	Reviewer	April 3, 2013
Dr. S. Salaja	International journal of Adhoc and ubiquitous computing, Inderscience	Reviewer	October 29, 2012
Dr. S. Salaja	International journal of Sensor networks, Inderscience	Reviewer	October 30, 2012
Dr. Jasper Wilsie Kathrine	International Journal of Communication Systems	Reviewer	January, 2014
Dr. Jasper Wilsie Kathrine	International Journal of Computational Vision and Robotics (IJCVR)	Reviewer	December, 2013
Dr. Jasper Wilsie Kathrine	Journal of Parallel and Distributed Computing	Reviewer	November, 2013
Dr. Jasper Wilsie Kathrine	Journal of Computers & Electrical Engineering	Reviewer	October, 2013
Dr. Jasper Wilsie Kathrine	Journal of Security and Communication Networks	Reviewer	July, 2013
Dr. Jasper Wilsie Kathrine	Journal of Network and Computer Applications	Reviewer	April, 2012
Dr. J.Dinesh Peter	International Journal of Computational Vision and Robotics (IJCVR) Inderscience	Reviewer	October, 2013

Dr. J.Dinesh Peter	Journal of Computers & Electrical Engineering Elsevier	Reviewer	March, 2014
Dr. J.Dinesh Peter	Anna University, Chennai	MS (By Research) Thesis Examiner	May, 2014
Dr. D. Sujitha Juliet	Journal of Signal Processing, Elsevier	Reviewer	July 23, 2013

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes) : **118**

List of programmes and the Faculty members participated are given in **Appendix C-4**

28. Student projects (2014-2015)

- Percentage of students who have done in-house projects excluding inter-departmental projects

Number of students	Percentage
112	91.8

- Percentage of students doing projects in collaboration with other universities industry / institute

Number of students	Percentage
10	8.2

29. Awards / recognitions received at the national and international level by

- Faculty:

Name of the Faculty	Details of awards received	Awarding authority	Year
Dr. J. Dinesh Peter	Best Researcher Award	KITS	2012
Dr. S. Salaja	Best Researcher Award	KITS	2013
Mrs. P. Getzi Jeba	Best Teacher Award	KITS	2012 (Even)
Mr. Blessed Prince P	Oracle Certified Professional Java Programmer	Oracle	2014
Dr. Jasper W. Kathrine	Certificate for Reviewing	Elsevier, The Netherlands	2014
Dr. J. Dinesh Peter	Certified Pearson VUE Test Administrator	Pearson VUE, USA	2015
Mr. BL Radhakrishnan	Novell Certified Linux Administrator	Novell Inc, USA	2016
Mr. P. Blessed Prince	Conscientious use of LMS Moodle-2	KITS	24 th Jun 2015
Mr. BL Radhakrishnan	Conscientious use of LMS Moodle-2	KITS	24 th Jun 2015

- Doctoral / Post doctoral fellows: NIL
- Students achievements:

Name of the student with Register No.	Details of awards received	Awarding authority
Mr. Adonu Celestine (RR12IT004)	Best paper award	ICACNI 2013, Central Institute of Technology, Raipur, India

(Other students achievement, please refer Appendix C-5)

30. Seminars / conferences / workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

National / International & Conference / Symposium / Workshop	Title of the Conference / Symposium / Workshop	Name of the Resource Person (s) with Designation & Company	No. of participants	Date of the Conference / Symposium / Workshop
National Seminar	Computational Analysis in Medical Image Processing by CSIR	Dr. Kumar Rajamani, Research Engineer, GE Global Research, Bangalore	150	20 th and 21 st July 2012
National Seminar	Game Theory for Computer Science and Engineering Research”	Mr. Ganesh Iyer, Research Scholar, National University of Singapore	60	9 th August 2012
National Workshop	FOSS and Liferay portal	Mr. A. Antony Amirtharaj, Project Lead, Mphasis, Chennai.	260	3 rd September 2012
Workshop	Workshop on C++	Dr. J. Dinesh Peter HoD/IT KITS	100	20 th September 2012
Symposium	Expertise 13	Mr. R. Abilash, Information security and Cyber forensics, Dr. MGR University, Chennai.	200	1 st and 2 nd March 2013
National Workshop	Web – O - Master	Mr. Prateek Gupta, CEO of Innovians Technologies, Noida	100	26/02/2014 & 27/02/2014
National Workshop	Big Data Analytics using Hadoop	Mr. Srikanth Maru, Associate Consultant, Mr. Nelson Arasu, Systems Engineer and Mr. Dinesh Kumar, Systems Engineer from M/s. Tata Consultancy Services, Chennai.		21/02/2014
National seminar	Building the new age technology with Novell	Mr. Robinson Balu, Technology Sales Specialist, Novell.	150	30/07/2013
Regional seminar	Emerging Trends in IT	Mr. Joseph Devaraj, IT Analyst, TCS , Chennai	150	19/08/2014
Regional technical event	EVOTECH-14	Mr. Joseph Devaraj, IT Analyst, TCS , Chennai	150	19/08/2014
Regional Workshop	Hands on Workshop on “Network	Alfred Raja Melvin, Assistant Professor, Karunya University	50	5,12,19,26 th of August 2014
Regional Seminar	Machine Learning.	Dr. D. Vijay John, Intelligent Information Processing Lab, Toyota Technological Institute, Japan	100	13/08/2014

Technical Discussion	Research Level Discussion on Image Processing	Dr. D. Vijay John, Intelligent Information Processing Lab, Toyota Technological Institute, Japan	15	13/08/2014
Technical Discussion	Research Level Discussion on Image Processing	Dr.Y.V. RamanaRao, Professor, Department of ECE, Anna University, Chennai	10	26/08/2014
Regional Seminar	Web Application Security	Mr. K. Nirmal, Project Engineer-Security Testing, Wipro Technologies, Bangalore	30	12/09/2014
Regional Seminar	Open Source and latest technologies	Mr. Karthikeyan, Technology Specialist, Novell Software Development India pvt ltd	60	18/09/2014
Regional Seminar	Interactive product demonstration “Novell Products”	Mr. Karthikeyan, Technology Specialist, Novell Software Development India pvt ltd	30	19/09/2014
Regional Seminar	Recent Trends in Networking Technologies	Mr. Nirmal Singh Daniel, Network Engineer, Inautix, Chennai	90	19/09/2014
International Conference	Asian Conference on Membrane Computing	Dr. K.G Subramanian, University Saints, Malaysia Dr. Ravichandran, Professor, Madras Christian College Dr. T. Robinson, Professor, Madras Christian College Mr. Karthikeyan, Technology Specialist, Novell Software Development India pvt ltd.	110	18/09/2014 19/09/2014
Regional workshop	Enjoyable programming	Dr. Jey Veerasamy, Director, Center of ComputeScience Education & Outreach, Univerity of Texas, Dallas, USA	34	23/10/2014
Regional workshop	Efficient programming	Dr. Jey Veerasamy, Director, Center of ComputeScience Education & Outreach, Univerity of Texas, Dallas, USA	48	24/10/2014
Regional workshop	Innovative and Effective Teaching Methods in Programming Courses	Dr. Jey Veerasamy, Director, Center of ComputeScience Education & Outreach, Univerity of Texas, Dallas, USA	23	23/10/2014
Regional workshop	Discussion on Higher Education in USA	Dr. Jey Veerasamy, Director, Center of ComputeScience Education & Outreach, Univerity of Texas, Dallas, USA	26	23/10/2014
Regional Seminar	Software development life cycle	Mr.Rajesh Varadharajan, Software Architect, IContel AG, Zurich, Switzerland	58	14/10/2014
Regional Workshop	Cloud Computing Services using SUSE Cloud	Mr. Karthikeyan. R, Technology Sales, Novell Software Pvt.Ltd., Bangalore, India		20 th and 21 st November 2014
Regional Training	Red Hat Certified System Administrator (RHCSA)	Mr. Alfred Raja Melvin, Assistant Professor, Karunya University		24 th to 28 th November 2014

Regional FDP	FDP on Case Studies in System Software and Compiler Design	Dr. Salaja, Associate Professor	5	6/12/14
Regional FDP	FDP on Java SE6 Programmer	Blessed Prince- Assistant Professor	8	6/12/14
Regional FDP	FDP on Computer Network Security Issues	Dr. Kathrine, Mr. Edwin Prem Kumar, Karunya University	4	6/12/14
Regional Seminar	Seminar on advanced C Programming	Placed Final IT Students	100	28/01/2015 30/01/2015
Regional Seminar	Placement Drive- Technical and aptitude training	Placed Final IT Students	100	21/01/2015 07/01/2015
Regional Seminar	Placement training- C Programming	Placed Final IT Students	120	31/01/2015
Regional workshop	Special practical session on java programming	Blessed Prince P Karunya University	120	21/01/2015
Regional Seminar	Seminar on advanced C Programming	Placed Final IT Students	120	03/02/2015
Regional workshop	Hands on programming in C++, online mock exam	Placed Final IT Students, Mrs. Jebapriya, Mrs. Jemima Jebaseeli Karunya University	120	04/02/2015 to 09/02/2015, 10/02/2015, 23/02/2015
Regional Seminar	Seminar on Advanced Data Structures	Placed Final IT Students, Mrs. Jebapriya, Mrs. Jemima Jebaseeli Karunya University	Pre final year students	24/02/2015 to 27/02/2015
Regional workshop	Hands on - advanced concepts of Data Structures	Mr. Mathew Kurian, Mrs. Akila Agnus, Mr. Sebastin, Karunya University	IT students	11/02/2015
National Symposium	Expertize 2k15	Mr. T. Senthil Kumar, Managing Director, Peacock India Software Ltd, Chennai	150	11/03/2015
National workshop	IBM Bigdata on Cloud	Mr. Rajesh K Jeyapaul, IBM Innovation center, Bangalore	150	10/03/2015

31. Code of ethics for research followed by the departments.

Department of Information Technology follows KITS code of ethics as follows:

In the case of research scholars who have copied a dissertation / thesis / book for Ph.D. degree his / her thesis shall be forfeited and his / her research registration shall be terminated in this university and also he / she shall be debarred to register for any other programme in this University. For the abatement of above such action, the recognition of his / her supervisor shall be withdrawn for a period of 5 years and he / she shall be debarred from guiding the research scholars for any research programme in this University till such period.

32. Student profile programme-wise

Programme and Batch	Number of students					
	SC	ST	BC	OC	Physically challenged	Foreign Students
B.TECH IT (2012-16 Batch)	3	1	86	32	-	7
B.TECH IT (2011-15 Batch)	5	2	63	58	-	-
M.TECH NIE (2013-15 Batch)	-	-	10	11	-	-
M.TECH MMT (2013-15 Batch)	-	-	5	3	-	-
B.Tech IT (2013-17 Batch)	7	2	74	42	-	-
M.Tech IT (2014 -16 Batch)	1	-	4	-	-	-
M.Tech NIE (2014-16 Batch)	-	-	10	3	-	-

33. Diversity of students

Name of the programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MTech	21%	25.5%	53.5%	--
PhD	66.6%	33.4%	--	--

34. How many students have cleared all Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Academic Year	Reg. No	Name	Examination cleared	Month & year of passing	Score
2010-11	07FD132	Amar Tej Channa	IELTS	7 / 9	Nov 2014
2012-13	09FD035	Aatish Kumar	CMAT	93	2013
	09FD035	Aatish Kumar	MAT	98.6%	2013
	09FD009	Pratik Prabhakar	GRE	290 / 350	Nov 2015
	09FD009	Pratik Prabhakar	TOEFL	87	Dec 2014
2013-14	UR11IT025	Pragdeesh Kumar J	BEC	-	Sep 2014
	UR11IT123	Pratheek Monga	MAT	674 / 800	Dec 2014
	UR11IT002	Abhinav Appa Rao	TOEFL	94	Dec 2014
	UR10IT021	Shibani Noah	IELTS	7.5 / 9	Dec 2014
2014-15	UR11IT025	Pragadeesh Kumar J	GRE	281 / 350	2015
	UR11IT025	Pragadeesh Kumar J	IELTS	6.5 / 9	2015
	UR11IT066	Angeline Jebakumari	IELTS	7 / 9	2015
	PR13IT1006	Jegadeesh Kumar	IELTS	5 / 9	2015
	PR13IT1015	Senait Fesehaye Tekleab	IELTS	6.5 / 9	2015
	UR11IT002	Abhinav Appa Rao	GRE	305 / 350	Oct 2015
	PR13IT1006	Jegadeesh Choudari	IELTS	6 / 9	Mar 2015
	UR11IT066	Angeline Jebakumari	GRE	297/350	10-09-2015

35. Student progression (2014-15)

Student progression	Percentage against enrolled
UG to PG	20%
PG to M.Phil.	--
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	---
Employed	69%
• Campus Selection	62%
• Other than campus recruitment	7%
Entrepreneurs	1%

36. Diversity of staff

Percentage of faculty who are graduates	
Of the same university	61.9%
From other universities within the State	38.09%
From universities from other States	--
From universities outside the country	--

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period.

Name & Designation	Ph.D. awarded area of specialisation	University / Institution	Date of the Provisional Certificate
Dr. S. Salaja	Pervasive Computing	Karunya University	27.7.2012
Dr. Sujitha Juliet	Image Processing	Karunya University	16.9.2014
Dr. Jasper Wilsie Kathrine	Grid computing	Karunya University	13.12.2014
Dr. R. Venkatesan	Grid Computing	Anna University	

38. Present details of departmental infrastructural facilities with regard to

- a) Library -678 books
- b) Internet facilities to staff and students -yes
- c) Total number of class rooms - 6
- d) Class rooms with ICT facility - 6
- e) Students' laboratories - 3
(Microprocessor Lab
Integrated Circuits lab
Software Product Development Lab)
- f) Research laboratories -1
(Novell Centre of Excellence for Cloud Computing)
 - There are 678 text books available in the Department Library.
 - New books are procured based on the updated syllabus with recent editions.
 - In addition to the students and faculty laptops, 12 computers with net connectivity with speed of 200 mbps are available for faculty in the department for both teaching and research.
 - Computers are also available in the research as well as in project labs.
 - Excellent lab facilities with sufficient modern equipments are available to meet the need of students (Digital Integrated Circuits lab, Microprocessor lab and Programming labs).

39. List of doctoral, post-doctoral students and Research Associates

a) From the host institution / university

Name of the Student	Course of study	Specialization	Year of registration
Mr. J. Immanuel John Raja (07ZI001)	Ph.D.	Security in MANET	2007
Mrs. S. Durga (RP10IT001)	Ph.D.	Mobile Cloud Media Computing	2010
Mrs. P. Getzi Jeba Leelipushpam (RP11IT001)	Ph.D.	Security in Cloud Computing Environment	2011
Mr. P. Suresh (09ZI002)	Ph.D.	Abandoned object Detection	2009
Ms. S. Seetha (RP11IT002)	Ph.D.	Security in Wireless Mesh Networks	2011
Ms. Ruth Pushpalatha (RR12IT001)	Ph.D.	Networking	2012
Ms. Arthi (RR12IT002)	Ph.D.	Cloud computing	2012
Mr. Adonu Celestine (RR12IT004)	Ph.D.	Image processing	2012
Mr. Emmanuel Joy (RR12IT003)	Ph.D.	Computer Vision	2012
Mrs. Jemima Jebaseeli (RP14IT001)	Ph.D.	Image Processing	2015
Mr. S. Saravanan (RP15IT002)	Ph.D.	Medical Image Processing	2015
Mr. Shibir (RP15IT003)	Ph.D.	Mobile Cloud Computing	2016

b) From other institutions / universities

Name of the Student	Course of study	Specialization	Year of registration
Mr. Sminesh C N RP15IT004	Ph.D.	Computer Networks	2015

40. Number of post graduate students getting financial assistance from the University

Name of the Student	Reg. No.	Course of study	Specialization	Amount Received in Rs.	Remarks
S. Sudha Rani	PR12IT1027	M.Tech.	Network and Internet Engineering	Rs.20,000	Dr.DGS Dhinakaran memorial scholarship
Bessy M Kuriakose	PR11IT1014	M.Tech.	Network and Internet Engineering	Rs.20,000	Dr.DGS Dhinakaran memorial scholarship

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes.

Sum-up of the methodology adopted for start of any new Course is as follows:

1. The Director of the school constitutes a committee to evaluate the possibility of introducing new, relevant and viable programmes for which there is a market demand. The committee shall consist of internal experts and the external experts. Head of the Department shall be the Chairman of the Committee.
2. The Committee shall collect the feedback from all the stakeholders, analyze the same and identify the need for introducing new subjects. The feedback collected by the committee is scrutinized, summarized and submitted to the Director, School of Computer Science and Technology.
3. The Director shall scrutinize the recommendations of the committee and make a suitable proposal to the Vice Chancellor with full proposal for new programme.
4. The proposal includes the budget incorporating all requirements including infrastructure and manpower for the introduction of new programme.
5. On receiving the Vice-Chancellor's approval, the Director shall arrange for the presentation of curriculum in the CDC meetings, Board of Studies and Academic Council.

42. Does the department obtain feedback from

- a) Faculty on curriculum as well as teaching-learning evaluation? If yes, how does the department utilize the feedback?

Yes, feedback about each and every subjects offered to the students will be collected from the Faculty members in every semester. Based on the feedback given by subject Staff, the syllabus is framed in the Curriculum Development Cell and it will be passed through School CDC and Academic Council.

- b) Students on staff, curriculum and teaching-learning evaluation and how does the department utilize the feedback?

Yes, students will give their feedback about the teacher's performance and their life in campus online (Campus Management System). Also feedbacks from students are collected through the Class Committee Meeting conducted by the Head of the Department. Faculty members who receive high scores will be nominated for Best Teacher Award and the Faculty members with less score will counselled by the Head of the Department. The staff will be sent to the Faculty Training Drograms conducted by reputed Institutions/ Organizations/ Universities in India.

- c) Alumni and employers on the programmes offered and how does the department utilize the feedback?

Alumnus of KITS, Academicians from reputed universities and industrialists from top companies are members of Board of Study and Academic Council. Once a semester they attend a meeting and give their suggestions and feedbacks on curriculum. The Department considers the feedback received from the Alumni and Employers on the subjects offered, and will be appropriately modified based on their suggestions.

43. List the distinguished alumni of the department (Maximum 10)

Name of the Student with Reg.No	Course of study	Branch	Year of completion	Position held	Organization / institution
Mr.Blessen George Kurian (2004-2008)	B.Tech.	IT	2008	Product development and maintenance in Telecom / Operational support systems	Wipro Technologies, Bangalore
Jebastin Paul Christopher. D (08FD601)	B.Tech.	IT	2012	Managing Director	Lovely Leafs Industries, Srivilliputhur
Jessy Joyson (06AH091)	B.Tech.	IT	2010	Manager	Microgen Application Process India(P) ltd, Coimbatore
Sijo Chacko (08FD100)	B.Tech.	IT	2012	Technical Executive	Indian Institute of Logistics, Chennai
Robin Mathew (06AH113)	B.Tech.	IT	2010	System Engineer	Infosys Technologies, Mysore
Benedict Johnson	B.Tech.	IT	2009	Software Engineer	McAfee India Bangalore
Dr. S. Sangheetha	M.Tech.	NIE	2006	Vice Principal	Vedavyasa Institute of Technology, Kerala
Mr. Sathya Pradeep	B.Tech.	IT	2009	Entrepreneur	Furnify.com
Mr. Paul Wesley	B.Tech.	IT	2009	Test Lead	Wipro, Bangalore

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Details of student enrichment programmes (special lectures / workshops / seminar) involving external experts are given in **Appendix C-6**.

45. List the teaching methods adopted by the faculty for different programmes.

The department has used certain strategies for imparting knowledge like (i) OHP, (ii) LCD Projectors, (iii) Internet (iv) Computers / laptops, (v) E-Learning materials from IITs.

Learning Management System was initiated by this department to facilitate the students in academics.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The outcomes are listed

- Ability to exhibit knowledge of mathematics, science and engineering;
- Capable of identifying, formulating and solving engineering problems;
- Ability to conduct experiments, interpret data and design as per specifications;
- Ability to work on live projects.

Regular tests are conducted and the performance of the students are analysed based on their marks.

Laboratory sessions include viva to check the knowledge gained by the students.

Mini projects are done by the students based on the skills acquired and this enables them to work on live projects.

47. Highlight the participation of students and faculty in extension activities.

Date	Venue	Programme Details	Number of Participants	Number of Faculty involved	Number of Students involved
7 th of March 2014	Computer Technology Centre	In collaboration with Karunya NSS unit organized “A Computer Hardware/Software Training Programme for Rural School Students”	44	2	5

The School of Computer Science and Technology of Karunya University in collaboration with Novell Software development India private limited and NSS unit of Karunya University organised “A Computer Hardware/Software Training Programme for Rural School Students” on 7th of March 2014. 44 students accompanied by three faculty members from Mathuvarayapuram Government School participated in this event. The BLITZ, students association (Department of Information Technology) had organized the event, with a motive to serve the society in sharing knowledge and affection. The event was conducted in the computer technology centre of Karunya University from 10:30 a.m. Dr. Sundar Manohar, Vice-Chancellor, Dr. C. Joseph Kennedy, Registrar and Dr. R. Elijah Blessing, Director School of Computer Science and Technology presided the function and interacted with the school students. This gave the students an ideal opportunity to use and explore the computer. They were very much excited and thrilled while exploring the various software tools that are installed in the computer. Competitions were conducted to encourage the students during the session based on what was taught and they were awarded with prizes sponsored by Novell Software development India private limited. All students who attended had a satisfaction that they were able to gain new insights in using the computer. The students requested us to conduct such events in future so that they can participate and be benefited. With a thankful heart, the participants left the campus by 3.30 p.m.

- ✓ In addition to academic activities, the Department also supports activities such as
 - Y’s youth Club;
 - Programming Club;
 - Computing Security Club;
 - Multimedia & FOSS Clubs.

- ✓ Faculty members were registered themselves as programme officers in units of our university viz. NSS, YRC, Nature club, Rotaract club, etc. Students have enrolled in various academic & non academic clubs of the University.

48. Give details of “beyond syllabus scholarly activities” of the department.

The department has students association named “BLITZ”. With the help of this association, the following events were conducted for the benefit of students.

- Technical Quiz
- Web page Designing competition
- Logo Designing competition
- Multimedia competition
- Placement seminar

S. No.	Date	Title of the Event
1	13/8/13	Keylogger and its prevention (computing Security club)
2	29/8/13	Differentiate the difference (Programming Club)
3	29/8/13	Edit thy art (Multimedia Club)
4	29/8/13	Into the source of an Open world (Open source club)
5	5/9/13	Pocketing Your Dream Job workshop
6	22/1/14	Hacking Security and Streamling security for advanced protection
7	22/1/14	Open sourced operating system and customization of programs

- Department of information technology organized a national level technical symposium during 10th and 11th march 2015. The following technical events were conducted as part of this event.
 - COD++(Coding contest)
 - Webion(Web Designing)
 - Proniq(Project Presentation)
 - Papyrus(Paper Presentation)
 - Doodler (Photoshop contest)
 - StartUp(Idea for Entrepreneurship)

136 students, both from Karunya University and from other institutions participated in technical / non technical events. A workshop on “Big data on Cloud”, is organized as a part of this workshop on 10th march 2015, and 41 participants were benefitted with this workshop.

- The School of Computer Science and Technology organized the regional CSI- National level project contest on 6th March 2015. The following two technical events were conducted as part of this event.
 - KING CODE (coding contest)
 - PSD WAR (Photoshop contest)
- Students are doing mini-projects during their summer holidays. Based on the project report, review will be conducted and credits will be awarded to them.
- Students are getting opportunities to do project internships in fortune companies such as Wipro, Polaris, Capgemini, Reliance Gio, Accenture, Infosys, HCL etc., Some of them are achieved through campus placement.
- Students are given opportunities to do project internships in foreign countries through IAESTE. The following are the student details:

#	Name of the Student	Reg. No	Year	Country
1	Mr. S. Jebaraj Abraham	PR10IT1016	2010	Germany
2	Ms. Magdelene. R	PR11IT2011	2011	Germany
3	Ms. Salasha Babu Suresh	PR12IT2007	2012	Brazil

4	Mr. Jithin Joseph	PR12IT2008	2012	Brazil
5	Mr. Vignesh. C	UL10IT008	2013	Brazil
6	Mr. Vaisakh Krishnan	PR13IT2005	2014	Brazil

- The School of computer science and technology is offering various certifications programmes such as CCNA, OCA, OCP, OCPJP, RHCE, RHCSA, NCLA and NCLP. These courses are offered with the support of CISCO, Oracle, Redhat and Novell respectively.
- The School of computer science and Technology became an authorized Pearson VUE Testing centre. The students who are successfully completing the certification courses such as CCNA, OCA, OCP, OCPJP and NCLP can write their industry examination in the campus itself.
- Students were given opportunity to do dual degree program in University of West of England, Bristol.

#	Student Name	Register number	Degree Awarded	Credits earned at KU	Credits earned at UWE	Credits mapped to KU
1	Leo Richard Raj	06AH033	BSc Computing	161	120	39
2	Paul Ruban Raj	06AH046	BSc (Hons) Computing	163	120	37
3	Charles Mathew	06AH079	BSc Computing	161	120	42
4	Robin Kariottu Rajan	07FD047	BSc (Hons) Computing Security	163	120	40
5	Jason Jacob Thomas	06AH096	BSc (Hons) Robotics	161	120	39
6	Benson Daniel	06AH114	BSc Computing	163	120	37
7	Vijay Devassy	08DI016	MSc Information Technology	57	180	46

49. State whether the programme / department is accredited / graded by other agencies? If yes, give details. Not yet Accredited
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The Department organised CSIR sponsored national seminar on Computational Analysis in Medical Image Processing during 20th and 21st July 2012. Eminent Professors / Doctors from various parts of India shared their knowledge in the area of medical image processing. 100 students/scholars participated in the Seminar. During the month of Sep 2012, the Department organised a workshop on “FOSS and Liferay Portal” which was again an eye opener to the students in Web Development. We have enhanced the existing cloud lab by procuring super storage server. This will support the needs of research and PG students in projects/research.

- Industry oriented curriculum for MTech in Information Technology by Novell Inc.
- Certification courses like OCA, OCP, OCPJP, NCLA, CCNA is offered
- Established CISCO Centre of excellence for Advanced Networking

51. Detail five major strengths, weaknesses, opportunities and challenges (SWOC) of the department.

Strengths

- Specialized Centre of excellence for Cloud computing sponsored by Industry.
- PG programme collaborated with Industry
- Dual Degree opportunities through foreign university collaboration

- IAESTE foreign internship opportunities
- Consultancy works through Karunya alumni Entrepreneurs and In-house opportunities
- All the faculty members are pursuing PhD work
- Publications in refereed Journals & Conferences

Weakness

- MoUs signed with fortune companies for offering certification courses. Steps are taken to strengthen MoUs with leading Industries for seeking bilateral / sabbatical projects to faculty and students.
- Faculty members who are pursuing Ph.D are encouraged to complete to improve the research ambience in the department.
- Apart from In-house consultancy opportunities and consultancy work through alumni entrepreneurs, developing real time projects for industries and Govt. agencies are being approached.

Opportunities

- Academic Autonomy helps in constant updation of curriculum
- More Industry oriented add on courses through MoUs
- Usage of Learning Management System effectively for teaching-learning process
- Industry supported Curriculum design for undergraduate level courses
- A good number of software projects / products have just been developed and lined up for copyrighting

Challenges

- Constant updation of curriculum to meet Industrial needs
- To enhance the quality and standard of laboratories to meet Industry level of expertise
- To enhance the consultancy works through specialized labs
- Short term consultancy work is challenging as the companies expect solution with cutting edge technology in a short duration.

52. Future plans of the department. (Please refer **Appendix C-7**)

