

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology, Trichy	2012	Till Date
Assistant Professor	National Institute of Technology, Trichy	2009	2012
Lecturer	National Institute of Technology, Trichy	2007	2009
Assistant Professor	J.J. College of Engineering and Technology, Trichy	2004	2007
Lecturer	J.J. College of Engineering and Technology, Trichy	1998	2004

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph. D	Anna University, Chennai	2014	First Class	Information and Communication Engineering
M.E	Madurai Kamaraj University, Madurai	1997	First Class With Distinction	Microwaves and Optical Engineering
B.E	Madurai Kamaraj University, Madurai	1995	First Class	Electronics and Communication Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/ Institution	From	To
Member in stock verification committee of Transport section	Institute		2013
Faculty Representative for Department and faculty Website updation committee	Department	2015	Till Date
Member in Preparing Department Annual Report	Department	2014	
Department representative for Conclave on Academic Reforms(CAR)-2015	Department	2015	
Member in UG-NBA team	Department	2014	Till date
Faculty in-charge for UG&PG classes	Department	2008	Till Date
In-charge for Fiber Optic Communication lab	Department	2013	Till date

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Ph.D admission process	Department	2014	Till Date
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10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
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12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
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13. Details of Academic Work

- (i) Curriculum Development : Syllabus framed for the UG, PG and Ph.D programme
 UG: EC 206 & ECPC 71 Electronic circuits, EC 219 Applied Electronics (MME),
 EC 407 Fiber Optic Communication Lab, EC 210 Electronic Circuits Lab
 PG: EC 602 Advanced Digital Communication system
 Ph.D : EC 631 Optical Wireless Communication, Radio Over Fiber Systems
- (ii) Courses taught at Postgraduate and Undergraduate levels:
 PG Level : EC602 - Advanced Digital Communication, EC608 - Fiber Optics & Communication Lab
 UG Level : EC 405 Microwave Electronics, EC206 - Electronic Circuits, BEIII102 - Basic Electrical and Electronics Engineering, CC 101 Energy and Environmental Engineering, EC407 - Fiber Optic Communication Lab, EC 409 Microwave Lab, Optical Communication, Digital Communication, Analog Communication systems, Digital Electronics, Linear Integrated Circuits, Communication Systems Lab, Digital Electronics Lab
- (iii) Projects guided at Postgraduate level : **05 Guided; 02 -Ongoing**
- (iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Ms. P. Suganya	Ongoing	Ongoing	Ongoing
Mr. C. Rajesh Kumar	Ongoing	Ongoing	Ongoing
Ms. Jenila. C	Ongoing	Ongoing	Ongoing
Mr. C. Sathish Kumar	Ongoing	Ongoing	Ongoing
Mr. Gnanakumar D	Ongoing	Ongoing	Ongoing

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc.
(mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
6th March, 2002	Educators Seminar cum Training Programme On “Analog, Digital and RF Measurements”	National	Participant	Department of ECE	Thiagarajar College of Engineering and M/S Agilent Technologies, Madurai Tamilnadu.
07/06/04-12/06/04 (one week)	Faculty Development Programme(FDP) on “Antennas and Propagation	National	Participant	Department of ECE	Centre for Faculty Development and Crescent Engineering College, Chennai, Tamilnadu
11/11/05-15/11/05 (one week)	Faculty Development Programme(FDP) on “Instructional Design And Delivery	National	Participant	JJCET, Trichy	Technical Teachers Training Institute (TTTI) and J.J.College of Technology, Tiruchirappalli, Tamilnadu.
02/09/06	Workshop on “Fabrication Of Flexible Microwave-Frequency circuits and Antennas and Their Applications	National	Participant	Department of ECE South Dakota School Of Mines, (SDSMT) USA and Sriramakrishna Engineering College, Coimbatore, India.	
07/09/06-08/09/06	Short Term Course on “MEMS Design Using Intellisuite Software “under TIFACCORE Mission Reach programme on “Wireless Technologies”	National	Participant	Department of ECE, TIFACCORE in WIRELESS Technologies, Thiagarajar College of Engineering and M/S Agilent Technologies, Madurai, Tamilnadu.	TCE madurai

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28/09/07- 29/09/07	TEQIP(Networking &FDP)- High Intensive Training Programme on RF and Microwave Measurement Equipments”	National	Participant	Department of ECE, Alagappa Chettiar college of Engineering and Technology and M/S Agilent Technologies, Karaikudi, Tamilnadu.	Karaikudi
06/10/2007	National Workshop on ”Emerging Networking Technology& Application EMAP“07	National	Participant	Department of ECE, Kumaruguru College of Technology, Coimbatore, Tamilnadu	KCT coimbatore
29/11/07- 30/011/07	National workshop on ”MATLAB and its Applications”	National	Participant	Department of ECE, National Institute of Technical Teachers Training &Research (NITTTRC), Chennai, Tamilnadu	
02/11/07	Workshop on”WiMAX, 3GAppliocations in Wireless Technologies “under TEQIP community services.	National	Participant	Department of ECE, National Institute of Technology, Tiruchirappalli	
18/12/07- 19/12/07	Workshop on “Special Topics On Microwaves”under TEQIP Networking	National	Participant	Department of ECE, National Institute of Technology, Tiruchirappalli	
11/02/08- 15/02/08	AICTE-QIP course on ”Metallurgy and Materials: Today and Tomorrow”	National	Participant	Department of Metallurgical &Materials Engineering, National Institute of Technology, Tiruchirappalli	
23/02/08	Workshop on “Nanostructures and Devices” under TEQIP community services	National	Participant	Department of Physics, National Institute of Technology, Tiruchirappalli	
28/02/08	Workshop on “Nanomaterials Characterization and their process applications” under TEQIP community services	National	Participant	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli	

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05/03/08-06/03/08	Workshop on “Nanomaterials – Science, Technology “and applications” under TEQIP community services	National	Participant		Department of Metallurgy & material Engineering National Institute of Technology, Tiruchirappalli
05/05/08-09/05/08 (one week)	Continuing Education Programme – Workshop on “PHOTONICS MICROSYSTEMS”	National	Participant		IISc, Bangalore
16 – 28 June,08	AICTE –MHRD- Sponsored Staff Development Programme (SDP)On “FUZZY LOGIC : THEORYAND ENGINEERING PRACTICES”	National	Participant	NITT	
Oct 7-8,2008	Training Programme on Thesis preparation using latex software	National	Participant	NITT	
7-12 July 2008	Induction Training programme on “INSTRUCTIONAL DESIGN AND DELIVERY SYSTEM	National	Participant	NITTTRC, Chennai. NITTTRC, Chennai	
27th Sep, 2008	Workshop on TELEMEDICINE	National	Participant	Department of ECE,NITT	
19-31 January 2009	AICTE –MHRD –Sponsored Faculty Development Programme (SDP)”WEB BASED SYSTEMS: DEVELOPMENT AND APPLICATIONS	National	Participant	NITT	
13-17 July 2009 (one week)	AICTE –MHRD-Short Term Training Programme (STP)” INTRODUCTION TO INTELLIGENT SYSTEMS ENGINEERING	National	Participant	NITT	
7th Sep,2009	NITT-NRDC Regional Seminar”Intellectual Property and Innovation Management in Knowledge Era”.	National	Participant		NITT
30th Oct,2009	Workshop on Optics	National	Participant	Department of Physic	NITT

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13-17 July 2010 (one week)	AICTE-MHRD- Faculty Development Programme (FDP) "RECENT TRENDS IN MICROWAVE INTEGRATED CIRCUITS	National	Participant	Department of ECE,NITT	
28th&29th ,Oct,2011	Workshop on "Wireless Communication and Research issues"	National	Participant		Department of ECE, Thiagarajar College of Engineering, Madurai, Tamilnadu.
11th &12th , FEB 2013	Outbound Experiential Learning Camp for Team Building & Effective Group Dynamics	National	Participant		ADVENTURE ZONE (ISO 9001:2008) chennai

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
International Conference on Emerging Enhancements in Engineering and Technology	International conference	18 th March 2016	Session Chair	Indra Ganesan College of Engg.,Trichy
Technical Programme Committee Member for IEEE conference	Internal conference			
Reviewer for book	"Wireless Communication Networks: 3G and Beyond"-Iti Saha Misra "Optical Fiber Communications"- 4/E-Gerd Keiser Analog and Digital Communication" T.L. Singal	2009 to 2012	Reviewer	-McGraw-Hill -Education Tata McGraw-Hill Education
Reviewer	Some Research articles reviewed for "Transactions on Microwave Theory and Techniques"	2012-2014.	Reviewer	IEEE MTT
Organizer	Two days State Level Workshop for Faculty in" Recent Trends in Microwave and Optical Communicatiou	2-3rd Dec.2004	Organizer	,JJCET,Trichy
Organizer	One Day Workshop	Nov-2,	Organizer	NITT

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	on”WiMAX, 3G- Appliocations in Wireless Technologies “under TEQIP community services	2007		
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18. Invited Talks delivered

Topic	Date	Inviting Organization
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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian Society for Technical Education (ISTE)	No:LM50602
Life Member	Indian Institution of Electronics and Telecommunication Engineers(IETE)	No:M190641
Member	Institution of Engineers (IE), India	M-139553-4

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore	7-10, 2009 December	IEEE-Asia Pacific Microwave Conference (APMC) 2009 held at Singapore

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
R. K. Jeyachitra and J. Martin Leo Manickam	Tunable and reconfigurable spectrum-sliced microwave photonic filter using parallel Fabry-Perot filters with external delay and windowing	European Journal of Scientific Research	Vol. 103, No.2,	pp.313- 325	June 2013	SJR 0.15
R. K. Jeyachitra and J. Martin Leo Manickam	“Reconfigurable millimeter-wave photonic filter based on spectrum- slicing by cascaded	Asian Journal of Information Technology,	Vol.12, No.6,	pp.170- 175	June 2013	SJR- 0.113 Scopus Indexed

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	Fabry-Perot filters					
R.K.Jeyachitra, and J. Martin Leo Manickam	Reconfigurable spectrum sliced millimetre-wave photonic filter with High Q for V-band High Altitude Platforms (HAPs) for broadband wireless access”	European Journal of Scientific Research	Vol.97,No.2,	pp.281-292	Feb 2013	SJR- 0.15
R.K. Jeyachitra, R. Sukanesh	Highly Selective and Tunable Microwave Photonic Filter Using Parallel Fabry-Pérot Filters for Universal Mobile Telecommunications System Noise and Interference Suppression	IET Communications	Vol.5, issue 8,	1123-1128	2011	0.72
R.K.Jeyachitra, R.Sukanesh	Flexible Tunable Spectrum Sliced Microwave Photonic Filter Using Parallel Fabry- Pérot Filters and Fiber Bragg Grating	Journal of Microwave, Optoelectronics and Electromagnetic Applications (JMoe),				SJR 0.071. Scopus Indexed
R.K.Jeyachitra, R.Sukanesh	Novel High-Q Spectrum Sliced Photonic Microwave Transversal Filter Using Cascaded Fabry-Pérot Filters	International Journal of Microwave and Optical Technology (IJMOT)	Vol.5,no 4,	pp229-234,	July2010	SJR-0.139
R.K.Jeyachitra, R.Sukanesh	A Technical Study on Performance of a Cascaded Incoherent Spectrum Sliced Transversal Photonic Microwave Filter	International Journal of Applied Engineering Research (IAER),	Volume 5, Number 11	pp 1979-1986,	2010	
R.K.Jeyachitra, R.Sukanesh	Performance Enhancement of Spectrum Sliced Photonic Microwave Filter Using Parallel Fabry- Pérot Filters With High Profiled Windowing for WDM-ROF Link	International Journal of Engineering Science and Technology (IJEST)	Vol. 2 Issue 5	pp 1170-1176	May 2010	

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R.K.Jeyachitra, R.Sukanesh	A Cascaded Incoherent Spectrum Sliced Transversal Photonic Microwave Filters-An Analysis	International Journal on Computer Science and Engineering (IJCSE)	Vol. 02, No. 03,	pp 531-535,	May 2010	
R.K.Jeyachitra, R.Sukanesh	“Comparative Study of Techniques Deployed in Spectrum Slicing for Microwave Photonic Filters	“International Journal of Photonics(IJP	Vol.1, No 1-2	pp. 1–10	2009	
R.K.Jeyachitra, R. Sukanesh	Highly Tunable Photonic Microwave Filter Based on a Broadband Optical Source Sliced by Two Cascaded Fabry-Perot Filters	International Journal of Recent Trends in Engineering (IJRTE),	Vol 2, No. 7	pp53-55,	November 2009	

(B) Conferences/Workshops/Symposia Proceedings

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Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
C.Rajesh Kumar, R.K.Jeyachitra	Performance Comparison of Space Shift Keying MIMO Techniques for Visible Light Communication	Accepted	Accepted		Karpagam College of Engineering, Coimbatore	2016
P. Suganya, R.K.Jeyachitra	Design Of Hybrid VLC-RF based broadband access network	Proc. International Conference on Research in Engineering, Computers and Technology			National Institute of Technology, Trichy	2016
A. Anusree, R.K.Jeyachitra	Performance analysis of a MIMO VLC (Visible Light Communication) using different equalizers	Proc. Of the 2016 IEEE International Conference on Wireless Communications, Signal Processing and Network (WiSPNET)	43- 46	Advancement in Information Communication towards the creation of Smart World	Chennai	2016
R.K. Jeyachitra, Dr. (Mrs.) R. Sukanesh,	A 40GHz Band Millimeter-Wave Photonic FilterBased on Spectrum Slicing by Cascaded Fabry-Perot Filters	International Conference On Recent Advancements In Electrical Sciences (ICRAES'10)			K.S.R. College Of Engineering, Tiruchengode, India	2010
R.K. Jeyachitra, Dr. (Mrs.) R. Sukanesh, Sailesh Ajmera	Flexible Tunable Spectrum Sliced Microwave Photonic Filter using Parallel Fabry-Perot filters”	IEEE-Asia Pacific Microwave Conference (APMC) 2009			Singapore	2009
Sneha Priya , R.K.Jeyachitra,	”Acid Rain: A novel Purification Method of Rain Water” presented on	Recent Advances in Environmental Protection RAEP 2009 International Conference and Exhibition,			Agra, India.	,2009
R.K.Jeyachitra, Varun Baxi	Hybridization of Solar Energy and Wind Energy	Recent Advances in Environmental Protection RAEP 2009 International Conference and Exhibition,			Agra, India.	,2009
R.K.Jeyachitra, Amogh Anand Vaishampayan,	Conservation of the Gangas River Dolphin Using CritterCAM Technology	Recent Advances in Environmental Protection RAEP 2009 International Conference and Exhibition,			Agra, India.	,2009
R.K. Jeyachitra, R. Sukanesh	”Performance Analysis of Spectrum Sliced Photonic Microwave Filter Using Parallel Fabry-Pérot Filters for ROF Link	”Proceedings of IETE-National Conference on Information Communication and Intelligent Systems(NCICIS 2011),				2011

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Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
R.K.Jeyachitra, D.Sriramkumar, Krishna Bharath	THZ photonics and its Applications”	Advanced Communication systems – ICACS-2007			Coimbatore	2007
Dr. (Mrs.) R. Sukanesh, R.K. Jeyachitra, et.al	Investigation on the techniques deployed in Spectrum Slicing for Microwave Photonic Filters	IEEE - International Conference on Computing, Communication and Networking (ICCCN2008)			Karur	2008
Dr. (Mrs.) R. Sukanesh, R.K. Jeyachitra, et.al,	“Optical CAD tools for Microwave Photonic Filters	International Conference on Mechanical and Electronics Engineering (ICMEE2009)			Chennai	2009
R.K.Jeyachitra, V.Sudha, D, sriramkumar, V.Syam sudarbabu	A Full Duplex Radio Over Fiber Transport System	IETE Conference on RF&Wireless (ICORN RFW-08).	24		Bangalore	2008
R.Sukanesh, R.K.Jeyachitra, D.Sriramkumar	Simultaneous all Optical Frequency up conversion using OFWM-HNL- High conversion efficiency PCF for WDM ROF applications	IETE Conference on RF&Wireless (ICORN RFW-08).	13		Bangalore	2008
D.Sriramkumar, R.K.Jeyachitra, Krishna Bharath,	”Evolution of Photonic crystal fiber quality in Electronics and Communication	All India Seminar on “Challenges for quality and Reliability” organized by National Institute of Technology,Rourkela	pp 207-213		Orissa,India	2006
R.K.Jeyachitra, D.Sriramkumar	Emerging Trends in ROF Technology for Broadband Wire/Wireless access systems	National Conference on “Emerging Trends in Communication Systems			Tiruvannamalai, Tamilnadu	2006

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(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
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