

## Compliance status – PART C

### (Faculty Research and Development)

S.No.	Criteria	Prior to the Accreditation Visit	After the Accreditation Visit	Remarks of the Evaluator (to be left Blank)
1	Improvement in Faculty Development program (FDP)	2011-12: 10 2012-13: 14 2013-14: 20  Total : 44	2014-15: 22 2015-16: 48 2016-17: 32 2017-18 : 81  Total : 183	
2	Relevance of Faculty Development program (FDP)	100%	100%	
3	Improvement in number of Publications	2011: 76 2012: 62 2013: 30  Total : 168	2014: 83 2015: 50 2016: 43 2017 : 96  Total : 272	
4	Quality of Publications	2011:65 2012:55 2013:22  Total : 142	2014: 59 2015: 33 2016: 35 2017 :70  Total : 197	
5	Amount of funded research received	2011-12: 15.96 lacs 2012-13: 9.8 lacs 2013-14: ---  Total : 25.76lacs	2014-15: --- 2015-16: 20.14 lacs 2016-17: --- 2017-18 : 15.21 lacs  Total : 35.35 lacs	
6	Amount of funded consultancy	Nil	Nil	
7	Number of PhD. Produced	2011-12: 03 2012-13: 02 2013-14: 03  Total : 08	2014-15: 01 2015-16: 04 2016-17: 03 2017-18: 01  Total : 09	

<b>8</b>	<b>Number of PhD. Pursuing</b>	<b>2011-12:13</b> <b>2012-13:14</b> <b>2013-14:13</b>  <b>Total : 40</b>	<b>2014-15: 11</b> <b>2015-16: 12</b> <b>2016-17: 12</b> <b>2017-18: 16</b>  <b>Total : 51</b>	
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING****Details of the participants in Faculty development/training activities/STTPs**

S. No.	Name of the Faculty	CAYm1	CAYm2	CAYm3	CAYm4
		2017-18	2016-17	2015-16	2014-15
1	Prof. S.V. Bhooshan	1	1	2	1
2	Prof. Ghanshyam Singh	2	2	2	1
3	Dr. Meenakshi Sood	7	7	7	1
4	Munish Sood	3	2	4	1
5	Dr. Neeru Sharma	0	1	2	1
6	Pradeep Garg	4	2	3	1
7	Pragya Gupta	3	0	2	1
8	Dr. Rajiv Kumar	6	3	2	1
9	Dr. Salman Raju	2	1	2	1
10	Dr. Shruti Jain	10	5	5	1
11	Alok Kumar	2	1	2	0
12	Dr. Shweta Pandit	5	1	2	0
13	Dr. Sunil Datt	5	0	2	0
14	Dr. Ashwani Sharma	3	0	0	0
15	Dr. Nafisuddin Khan	2	0	0	0
16	Dr. Sujit Kumar Patel	0	1	1	0
17	Mohit Garg	3	1	0	0
18	Piyush Okas	0	0	0	0
19	D.S Saini	NA	NA	1	1

20	M. Wajid	NA	NA	3	1
21	Pradeep Chauhan	NA	NA	2	1
22	T.S.Lamba	NA	NA	2	1
23	Vanita Rana	NA	NA	2	2
24	Akhil Ranjan	NA	NA	0	1
25	Bhaskar Gupta	NA	NA	0	1
26	Dr. Jitender Virmani	NA	NA	0	1
27	SVRK Rao	NA	NA	0	1
28	Tapan Jain	NA	NA	0	1
29	Kaushlender Pandey	NA	NA	0	1
30	Dr. Harsh Sohal	4	1	NA	NA
31	Dr. Emjee Puthooran	4	1	NA	NA
32	Dr. Vikas Baghel	4	1	NA	NA
33	Dr. Naveen Jaglan	4	0	NA	NA
34	Dr. Nishant Jain	7	1	NA	NA
	<b>Total</b>	<b>81</b>	<b>32</b>	<b>48</b>	<b>22</b>
	<b>Aggregate</b>	<b>183</b>			

<b>Details of the participants in Faculty development/training activities/STTPs</b>	
<b>Year</b>	<b>Total FDPs/ Training Activities/ STTPs</b>
2014-15	22
2015-16	48
2016-17	32
2017-18	81
<b>Total</b>	<b>183</b>

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2017-18)

Name of the Faculty	Details of the Participation (Courses/ WS/ STC/ Conference attended) (2017-18)	Duration
S V Bhooshan	Member of the Organizing Committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
Ghanshyam Singh	Attended a conference paper in 2017 Fourth International Conference on Image Information Processing (ICIIP-2017), Jaypee University of Information Technology, Wagnaghat.	21 <sup>st</sup> – 23 <sup>rd</sup> Dec' 2017
	Member of the Organizing Committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
Shruti Jain	Attended three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
	Presented a conference paper in 2017 Fourth International Conference on Image Information Processing (ICIIP-2017), Jaypee University of Information Technology, Wagnaghat.	21 <sup>st</sup> – 23 <sup>rd</sup> Dec' 2017
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Attended Short term course on “ <i>Cloud Computing through ICT</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
	Organized three day workshop on “ <i>Bio Medical Signal Processing (Wired techniques v/s Wireless techniques)</i> ” by the experts from ADInstruments, New Delhi at Jaypee University of Information Technology, Himachal Pradesh, India.	Sept 21st – 23rd 2017
	Organized three day workshop on “ <i>Inquiry-Based Biomedical Signal Processing Laboratory: From Practice to Simulation</i> ” by the experts from Biopac, New Delhi, India at Jaypee University of Information Technology, Himachal Pradesh, India.	Sept 21st – 23rd 2017
	Conference General Chair Person of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2017-18)**

	Session Chair in 12th INDIACom: 5th 2018 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India.	March 14 <sup>th</sup> -16 <sup>th</sup> , 2018.
	Organized three day “Institutional visit of M.Sc. Students” of Sambalpur University, Odisha in JUIT Wagnaghat.	Feb 28 <sup>th</sup> to March 2 <sup>nd</sup> 2018
	Chairman, Organized three days Technical Event “ <i>Murious XII</i> ” in collaboration with IEEE student branch, JYC and ACM, JUIT from February 10 <sup>th</sup> - 12 <sup>th</sup> , 2018 at Jaypee University of Information Technology, Himachal Pradesh, India	February 10 <sup>th</sup> - 12 <sup>th</sup> , 2018
Meenakshi Sood	Organised Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Attended Short term course on “ <i>Cloud Computing through ICT</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
	Organized three day workshop on “ <i>Bio Medical Signal Processing (Wired techniques v/s Wireless techniques)</i> ” by the experts from ADInstruments, New Delhi at Jaypee University of Information Technology, Himachal Pradesh, India.	Sept 21st – 23rd 2017
	Organized three day workshop on “ <i>Inquiry-Based Biomedical Signal Processing Laboratory: From Practice to Simulation</i> ” by the experts from Biopac, New Delhi, India at Jaypee University of Information Technology, Himachal Pradesh, India.	Sept 21st – 23rd 2017
	Conference General Chair Person of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Session Chair in 12th INDIACom: 5th 2018 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India.	March 14 <sup>th</sup> -16 <sup>th</sup> , 2018.
	Organized three days Technical Event “ <i>Murious XII</i> ” in collaboration with IEEE student branch, JYC and ACM, JUIT from February 10 <sup>th</sup> - 12 <sup>th</sup> , 2018 at Jaypee University of Information Technology, Himachal Pradesh, India	February 10 <sup>th</sup> - 12 <sup>th</sup> , 2018
Pardeep Garg	Member of the Organizing Committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2017-18)**

	Attended Short term course on “ <i>Cloud Computing through ICT</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
	Attended three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
Pragya Gupta	Member of the Organizing Committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Attended three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
Munish Sood	Member of the Organizing Committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Attended Short term course on “ <i>Cloud Computing through ICT</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
Salman Raju	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2017-18)

	Member of the Organizing Committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
Alok Kumar	Attended Short term course on “Wireless & Mobile Communication” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Attended Short term course on “Cloud Computing through ICT” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
Sunil Datt Sharma	Attended Short term course on “Wireless & Mobile Communication” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Attended Short term course on “Cloud Computing through ICT” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
	Conference Session Chair in 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Member of the organizing committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Attended three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
	Attended three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
	Attended Short term course on “Wireless & Mobile Communication” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
Shweta Pandit	Attended Short term course on “Cloud Computing through ICT” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information	Oct 23-27, 2017

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(Courses/ WS/ STC/ Conference attended) (2017-18)

	Technology, Jaypee University of Information Technology, Wagnaghat.	
	Attended three day workshop on “ <i>Bio Medical Signal Processing (Wired techniques v/s Wireless techniques)</i> ” by the experts from ADInstruments, New Delhi at Jaypee University of Information Technology, Himachal Pradesh, India.	Sept 21st – 23rd 2017
	Attended three day workshop on “ <i>Inquiry-Based Biomedical Signal Processing Laboratory: From Practice to Simulation</i> ” by the experts from Biopac, New Delhi, India at Jaypee University of Information Technology, Himachal Pradesh, India.	Sept 21st – 23rd 2017
Mohit Garg	Member of the Organizing Committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Attended a short term course on Deep Learning and Computational Intelligence in Automation and Control at IIT Kanpur	4 <sup>th</sup> Dec to 8 <sup>th</sup> Dec, 2017
Ashwani Sharma	Attended three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Conference Organizingcommittee member of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
Harsh Sohal	Attended three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
	Member of organising committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September, 21-23, 2017.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2017-18)

	Conference Session Chair in 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
Nafisuddin Khan	Attended three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
	Member of organising committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September, 21-23, 2017.
Naveen Jaglan	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Presented Paper in 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Member of organising committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September, 21-23, 2017.
	Attended Short term course on “ <i>Cloud Computing through ICT</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
Nishant Jain	Member of Technical committee of three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2017-18)

	Attended Short term course on “ <i>Cloud Computing through ICT</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
	Co-Chair for the technical session in 6 <sup>th</sup> IEEE International Conference on Computer Applications in Electrical Engineering, CERA17, Indian Institute of Technology Roorkee.	5 <sup>th</sup> – 7 <sup>th</sup> October, 2017
	Presented a conference paper in 6 <sup>th</sup> IEEE International Conference on Computer Applications in Electrical Engineering, CERA17, Indian Institute of Technology Roorkee.	5 <sup>th</sup> – 7 <sup>th</sup> October, 2017
	Member of organising committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Presented a conference paper in 2017 Fourth International Conference on Image Information Processing (ICIIP-2017), Jaypee University of Information Technology, Wagnaghat.	21 <sup>st</sup> – 23 <sup>rd</sup> Dec’ 2017
Emjee Puthooran	Member of organising committee of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September, 21-23, 2017.
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Attended Short term course on “ <i>Cloud Computing through ICT</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
	Member of Technical committee of three days National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
Vikas Baghel	Attended three days National Symposium on “ <i>Medical Image Acquisition, Processing &amp; Analysis</i> ” at Jaypee University of Information Technology, Himachal Pradesh, India.	20 <sup>th</sup> -22 <sup>nd</sup> November, 2017
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2017-18)

	Attended Short term course on “ <i>Cloud Computing through ICT</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
	Member of organising committee of 4 <sup>th</sup> IEEE “ <i>International Conference on signal processing and control (ISPCC 2017)</i> ”, Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
Rajiv Kumar	Attended three day workshop on “ <i>Bio Medical Signal Processing (Wired techniques v/s Wireless techniques)</i> ” by the experts from ADInstruments, New Delhi at Jaypee University of Information Technology, Himachal Pradesh, India.	Sept 21st – 23rd 2017
	Attended three day workshop on “ <i>Inquiry-Based Biomedical Signal Processing Laboratory: From Practice to Simulation</i> ” by the experts from Biopac, New Delhi, India at Jaypee University of Information Technology, Himachal Pradesh, India.	Sept 21st – 23rd 2017
	Organizing Member of 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPCC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.
	Attended Short term course on “ <i>Wireless &amp; Mobile Communication</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 30- Nov 03, 2017
	Attended Short term course on “ <i>Cloud Computing through ICT</i> ” conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wagnaghat.	Oct 23-27, 2017
	Conference Session Chair in 4 <sup>th</sup> IEEE International Conference on signal processing and control (ISPCC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	September 21-23, 2017.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2016-17)

Name of the Faculty	Details of the participation (Courses/ WS/ STC/ Conference attended) (2016-17)
S V Bhooshan	<ul style="list-style-type: none"> <li>• 2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC), December 22<sup>nd</sup> – 24<sup>th</sup>, 2016, Jaypee University of Information technology, Wagnaghat, Solan, H.P, India .</li> </ul>
Ghanshyam Singh	<ul style="list-style-type: none"> <li>• Resource person at SAAC (ISRO) Ahmedabad, 14-15 Dec. 2016.</li> <li>• 2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC), December 22<sup>nd</sup> – 24<sup>th</sup>, 2016, Jaypee University of Information technology, Wagnaghat, Solan, H.P, India</li> </ul>
Shruti Jain	<ul style="list-style-type: none"> <li>• 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 1-3, 2017.</li> <li>• Organized three days Technical Event “<i>Murious XP</i>” in collaboration with IEEE student branch, JUIT and ACM, JUIT from February 10 - 12, 2017 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• 2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC), December 22<sup>nd</sup> – 24<sup>th</sup>, 2016, Jaypee University of Information technology, Wagnaghat, Solan, H.P, India</li> <li>• Attended 24<sup>th</sup> Himachal Pradesh State Level Children's Science Congress-2016, 15-18 November, 2016, organised by State Council for Science, Technology &amp; Environment, at Govt. Sen Sec. School (Boys) at Nahan, District Sirmour.</li> <li>• Attended Workshop on “Virtual Labs College Cloud Edition Workshop: IIIT Hyderabad,” held at Jaypee University of Information Technology, Wagnaghat, Solan in collaboration with IIIT Hyderabad , May 09-12, 2017</li> </ul>
Rajiv Kumar	<ul style="list-style-type: none"> <li>• 2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC) , December 22<sup>nd</sup> – 24<sup>th</sup>, 2016.</li> <li>• Three day workshop “Virtual Labs College Cloud Edition” in collaboration with IIIT, Hyderabad, 09<sup>th</sup> – 12<sup>th</sup> May, 2017.</li> </ul>
Neeru Sharma	<ul style="list-style-type: none"> <li>• Three day workshop “Virtual Labs College Cloud Edition” in collaboration with IIIT, Hyderabad, 09<sup>th</sup> – 12<sup>th</sup> May, 2017</li> </ul>
Meenakshi Sood	<ul style="list-style-type: none"> <li>• Attended Workshop on “Virtual Labs College Cloud Edition Workshop: IIIT Hyderabad,” held at Jaypee University of Information Technology, Wagnaghat, Solan in collaboration with IIIT Hyderabad , May 09-12, 2017</li> <li>• 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 1-3, 2017.</li> <li>• Organized three days Technical Event “<i>Murious XP</i>” in collaboration with IEEE student branch, JUIT and ACM, JUIT from February 10 - 12, 2017 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> </ul>

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2016-17)

	<ul style="list-style-type: none"> <li>• 2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC), December 22<sup>nd</sup> – 24<sup>th</sup>, 2016, Jaypee University of Information technology, Wagnaghat, Solan, H.P, India</li> <li>• Participated in the FDP on Signal Processing and its application held during 13-18<sup>th</sup> Jan 2016 at JUIT, Wagnaghat, Solan, H.P, India.</li> <li>• Convener of the FDP on Signal Processing and its application held during 13-18<sup>th</sup> Jan 2016 at JUIT, Wagnaghat, Solan, H.P, India.</li> <li>• 2016 International Conference on Industrial Informatics and Computer Systems (CIICS), American University of Sharjah, Sharjah, March 13-15, 2016.</li> </ul>
Pardeep Garg	<ul style="list-style-type: none"> <li>• Attended Workshop on “Virtual Labs College Cloud Edition Workshop: IIIT Hyderabad,” held at Jaypee University of Information Technology, Wagnaghat, Solan in collaboration with IIIT Hyderabad , May 09-12, 2017</li> <li>• Organized three days Technical Event “<i>Murious XI</i>” as JYC Incharge in collaboration with IEEE student branch, and ACM, at Jaypee University of Information Technology, Himachal Pradesh, India, February 10 - 12, 2017.</li> </ul>
Munish Sood	<ul style="list-style-type: none"> <li>• Attended 2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC), December 22<sup>nd</sup> – 24<sup>th</sup>, 2016, Jaypee University of Information technology, Wagnaghat, Solan, H.P, India.</li> <li>• Attended Workshop on “Virtual Labs College Cloud Edition Workshop: IIIT Hyderabad,” held at Jaypee University of Information Technology, Wagnaghat, Solan in collaboration with IIIT Hyderabad , May 09-12, 2017</li> </ul>
Salman Raju	<ul style="list-style-type: none"> <li>• Attended Workshop on “Virtual Labs College Cloud Edition Workshop: IIIT Hyderabad,” held at Jaypee University of Information Technology, Wagnaghat, Solan in collaboration with IIIT Hyderabad , May 09-12, 2017</li> </ul>
Alok Kumar	<ul style="list-style-type: none"> <li>• Attended one week short term course on “Cyber Crime &amp; Forensic Tools through ICT” held in JUIT Wagnaghat, 6th -10th February, 2017.</li> </ul>
Shweta Pandit	<ul style="list-style-type: none"> <li>• Attended Workshop on “Virtual Labs College Cloud Edition Workshop: IIIT Hyderabad,” held at Jaypee University of Information Technology, Wagnaghat, Solan in collaboration with IIIT Hyderabad , May 09-12, 2017.</li> </ul>
Mohit Garg	<ul style="list-style-type: none"> <li>• Attended a three-day national workshop on Wireless Sensor Networks and Applications at IIIT Noida from 16th March to 18th March 2017.</li> </ul>
Vikas Baghel	<ul style="list-style-type: none"> <li>• Attended Workshop on “Virtual Labs College Cloud Edition Workshop: IIIT Hyderabad,” held at Jaypee University of Information Technology, Wagnaghat, Solan in collaboration with IIIT Hyderabad , May 09-12, 2017</li> </ul>

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2016-17)

Emjee Puthooran	<ul style="list-style-type: none"><li>• Attended Workshop on “Virtual Labs College Cloud Edition,” conducted by IIIT Hyderabad at Jaypee University of Information Technology, Waknaghat, Solan, 9-12, May, 2017</li></ul>
Harsh Sohal	<ul style="list-style-type: none"><li>• Attended Workshop on “Virtual Labs College Cloud Edition Workshop: IIIT Hyderabad,” held at Jaypee University of Information Technology, Waknaghat, Solan in collaboration with IIIT Hyderabad ., 9-12, May, 2017</li></ul>
Nishant Jain	<ul style="list-style-type: none"><li>• Attended a Workshop on College Cloud Edition for Virtual Labs by IIIT Hyderabad at JUIT Waknaghat, 9<sup>th</sup>-12<sup>th</sup> May, 2017</li></ul>
Sujit Kumar Patel	<ul style="list-style-type: none"><li>• Resource person in the workshop on “High-performance VLSI Architectures for Digital Signal Processing Applications: Design and Implementations” September 09-11, 2016, Sponsored by M.P. Council of Science &amp;Technology (MPCST), Bhopal, organized at Jaypee University of Engineering &amp; Technology, Guna, M.P., India.</li></ul>



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2015-16)

S. No	Faculty Name	Details of the Participation (Courses/ WS/ STC/ Conference attended) (2015-16)
1	Alok Kumar	<ul style="list-style-type: none"> <li>• Faculty Development Program on “Signal Processing and Its Applications” held at JUIT during January 13 – 18, 2016</li> <li>• One week Faculty Development Program on “Virtualization &amp; Cloud Computing - Fundamentals &amp; Practical Approach”, at JUIT, Wagnaghat during December 24-30, 2015.</li> </ul>
2	D.S Saini	<ul style="list-style-type: none"> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
3	Ghanshyam Singh	<ul style="list-style-type: none"> <li>• Resource person in six day Faculty Development Program on “Signal Processing and its Applications”, Jan 13-18, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
4	M. Wajid	<ul style="list-style-type: none"> <li>• Faculty Development Program on “Signal Processing and Its Applications” held at JUIT during January 13 – 18, 2016.</li> <li>• Resource person for the Workshop on “Design and Implementation of Logics using FPGA” held from 16th to 23rd November, 2015.</li> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
5	Meenakshi Sood	<ul style="list-style-type: none"> <li>• International Conference on Industrial Informatics and Computer Systems (CIICS), American University of Sharjah, Sharjah, March 13-15, 2016.</li> <li>• 10<sup>th</sup>INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 16<sup>th</sup> – 18<sup>th</sup>, 2016.</li> <li>• Organized three days Technical Event “<i>Murious X</i>” from January 29 - 31, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• Six day Faculty Development Program on “Signal Processing and its Applications”, Jan 13- 18, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• Six day Faculty Development Program on “Virtualization &amp; Cloud Computing - Fundamentals &amp; Practical Approach”, Dec 24- 30, 2015 at Jaypee University of Information Technology, Himachal Pradesh, India</li> </ul>

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2015-16)**

		<ul style="list-style-type: none"> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> <li>• 2015 Third International Conference on Image Information Processing (ICIIP -2015)” from December 21 - 24, 2015 at JUIT Wagnaghat.</li> </ul>
6	Munish Sood	<ul style="list-style-type: none"> <li>• Faculty Development Program on “Signal Processing and Its Applications” held at JUIT during January 13 – 18, 2016</li> <li>• One week Faculty Development Program on “Virtualization &amp; Cloud Computing - Fundamentals &amp; Practical Approach”, at JUIT, Wagnaghat during December 24-30, 2015.</li> <li>• Six day Faculty Development Program on “Signal Processing and its Applications”, Jan 13- 18, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
7	Neeru Sharma	<ul style="list-style-type: none"> <li>• Faculty Development Program on “Signal Processing and Its Applications” held at JUIT during January 13 – 18, 2016</li> <li>• Six day Faculty Development Program on “Virtualization &amp; Cloud Computing - Fundamentals &amp; Practical Approach”, Dec 24- 30, 2015 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> </ul>
8	Pradeep Chauhan	<ul style="list-style-type: none"> <li>• Six day Faculty Development Program on “Signal Processing and its Applications”, Jan 13- 18, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
9	Pradeep Garg	<ul style="list-style-type: none"> <li>• One week Faculty Development Program on “Signal Processing and Its Applications” held at JUIT during January 13 – 18, 2016</li> <li>• One week Faculty Development Program on “Virtualization &amp; Cloud Computing - Fundamentals &amp; Practical Approach ”, at JUIT, Wagnaghat during December 24-30, 2015.</li> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
10	Pragya Gupta	<ul style="list-style-type: none"> <li>• Six day Faculty Development Program on “Signal Processing and its Applications”, January 13<sup>th</sup> to 18<sup>th</sup>, 2016 at JUIT, Wagnaghat, Solan, H.P.</li> <li>• IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), September 24<sup>th</sup> to 26<sup>th</sup> 2015 at JUIT, Wagnaghat, Solan, H.P.</li> </ul>

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2015-16)

11	Rajiv Kumar	<ul style="list-style-type: none"> <li>• Six day Faculty Development Program on “Signal Processing and its Applications”, Jan 13- 18, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
12	S. V. Bhooshan	<ul style="list-style-type: none"> <li>• Resource person six day Faculty Development Program on “Signal Processing and its Applications ”, Jan 13- 18, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India</li> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
13	Salman Raju	<ul style="list-style-type: none"> <li>• Faculty Development Program on “Signal Processing and Its Applications” held at JUIT during January 13 – 18, 2016.</li> <li>• IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), September 24<sup>th</sup> to 26<sup>th</sup>2015 at JUIT, Wagnaghat, Solan, H.P.</li> </ul>
14	Shruti Jain	<ul style="list-style-type: none"> <li>• 10<sup>th</sup>INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 16<sup>th</sup> – 18<sup>th</sup> , 2016.</li> <li>• Organized three days Technical Event “<i>Murious X</i>” from January 29 - 31, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• Six day Faculty Development Programon “Signal Processing and its Applications”, Jan 13- 18, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• Six day Faculty Development Programon “Virtualization &amp; Cloud Computing - Fundamentals &amp; Practical Approach”, Dec 24- 30, 2015 at Jaypee University of Information Technology, Himachal Pradesh, India.</li> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
15	Shweta	<ul style="list-style-type: none"> <li>• Faculty Development Program on “Signal Processing and Its Applications” held at JUIT during January 13 – 18, 2016</li> <li>• Faculty Development program on “Virtualization &amp; Cloud Computing- Fundamentals &amp; Practical Approach”, held at JUIT, Wagnaghat during December 24-30, 2015.</li> </ul>
16	Sunil Datt	<ul style="list-style-type: none"> <li>• Faculty Development Program on “Signal Processing and Its Applications” held at JUIT during January 13 – 18, 2016</li> <li>• IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2015-16)

17	T.S.Lamba	<ul style="list-style-type: none"> <li>• Resource person in six day Faculty Development Programon “Signal Processing and its Applications”, Jan 13- 18, 2016 at Jaypee University of Information Technology, Himachal Pradesh, Indi.a</li> <li>• 2015 IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), Jaypee University of Information Technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.</li> </ul>
18	Vanita Rana	<ul style="list-style-type: none"> <li>• Faculty Development Program on “Signal Processing and Its Applications” held at JUIT during January 13 – 18, 2016.</li> <li>• IEEE International Conference on “Signal Processing, Computing and Control” (ISPCC 2015), September 24th to 26th 2015 at JUIT, Wagnaghat, Solan, H.P.</li> </ul>
19	Sujit Kumar Patel	<ul style="list-style-type: none"> <li>• Resource person in the workshop on “High Performance Digital Signal Processing System Design and Implementation” December 15-17, 2015, Sponsored by <i>IEEE Circuits &amp; Systems</i> (CAS) Society organised at IIT Bhubaneswar, Odisha, India.</li> </ul>

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2014-15)**

<b>S. No</b>	<b>Faculty Name</b>	<b>Details of the Participation (Courses/ WS/ STC/ Conference attended) (2014-15)</b>
1	Akhil Ranjan	• Six days “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.
2	Bhaskar Gupta	• Six days “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.
3	D.S Saini	• Six days “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.
4	Ghanshyam Singh	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
5	Jitender Virmani	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.
6	Kaushlender Pandey	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
7	M. Wajid	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
8	Meenakshi Sood	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
9	Munish Sood	• Six days “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.
10	Neeru Sharma	• Six days “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.
11	Pradeep Chauhan	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
12	Pradeep Garg	• Six days “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
13	Pragya Gupta	• Six days “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
14	Rajiv Kumar	• Six days “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.
15	S. V. Bhooshan	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
16	Salman Raju	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
17	Shruti Jain	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
18	SVRK Rao	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
19	T S Lamba	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
20	Tapan Jain	• Six day “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Courses/ WS/ STC/ Conference attended) (2014-15)

21	Vanita Rana	<ul style="list-style-type: none"><li>• International Conference on Computational Advancement in Communication Circuits and Systems at NIT, Agarpara, Kolkata on 30th Oct., 2014 to 1st Nov., 2014.</li><li>• Six days “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.</li></ul>
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S.No	Name of Faculty	2014				2015				2016				2017				Total
		Jour	Conf	Book Chap	Books	Jour	Conf	Book Chap	Books	Jour	Conf	Book Chap	Books	Jour	Conf	Book Chap	Books	
1	Ajay Kr Agarwal	1																1
2	Akhil ranjan		1															1
3	Alok Kumar									2				6	3			11
4	Ashwani Sharma													2	1			3
5	Bhaskar	2	5				1											8
6	D.C. Kulshreshtha																	0
7	D.S Saini	7	7			4	2											20
8	Emjee P																	0
9	Ghanshyam Singh	11	1		1	10	2			5	3			17	3		2	55
10	Harsh Sohal																	0
11	Jitender Virmani	1					1	1		1								4
12	Kaushlender pandey																	0
13	M. Wajid		2			1				1								4
14	Meenakshi Sood	2	4			1	2				3			4	9			25
15	Mohit Garg														1			1
16	Munish Sood																	0
17	Nafis uddin khan																	0
18	Naveen Jaglan													2	1			3
19	Neeru Sharma					1								2				3
20	Nishant jain																	0
21	Piyush Okas																	0
22	Pradeep Chauhan	1				1												2
23	Pradeep Garg									2					2			4
24	Pragaya Gupta																	0
25	Rajiv Kumar		1			1	1			2	1			1	3			10
26	S V Bhooshan	6	6			2	1			1	1							17
27	Samir Dev Gupta													2	1			3
28	Shruti Jain	7	1			5	3	1		11	5			6	11			50
29	Shweta Pandit	2				2					2			7	3		1	17

30	Solomon Raju	1				1				2								4
31	Sujit Kumar Patel																	0
32	Sunil Datt Sharma					1				1				2	3			7
33	SVRK RAO		1															1
34	T S Lamba																	0
35	Tapan Jain	2	9			1	2											14
36	Vanita Rana					1	1											2
37	Vikas Baghel														1			1
38	Vikas hastir		1															1
39	Miscellaneous																	0
	<b>Grand Total</b>	43	39	0	1	32	16	2	0	26	17	0	0	51	42	0	3	
		83				50				43				96				272

SCOPUS																		
S.No	Name of Faculty	2014				2015				2016				2017				Total
		Jour	Conf	Book Chap	Books	Jour	Conf	Book Chap	Books	Jour	Conf	Book Chap	Books	Jour	Conf	Book Chap	Books	
1	Ajay Kr Agarwal																	0
2	Akhil ranjan																	0
3	Alok Kumar									2				6	3			11
4	Ashwani Sharma													2				2
5	Bhaskar	2	4															6
6	D.C. Kulshreshtha																	0
7	D.S Saini	5	6			4												15
8	Emjee P																	0
9	Ghanshyam Singh	9	1		1	8				5	3			17	3		2	49
10	Harsh Sohal																	0
11	Jitender Virmani	2						1		1								4



12	Kaushlender pandey																	0
13	M. Wajid																	0
14	Meenakshi Sood	2	2			1	2				3			3	1			14
15	Mohit Garg														1			1
16	Munish Sood																	0
17	Nafis uddin khan																	0
18	Naveen Jaglan													2	1			3
19	Neeru Sharma													2				2
20	Nishant jain																	0
21	Piyush Okas																	0
22	Pradeep Chauhan																	0
23	Pradeep Garg														2			2
24	Pragaya Gupta																	0
25	Rajiv Kumar						1			1	1			1	3			7
26	S V Bhooshan	6	6			2	1			1	1							17
27	Samir Dev Gupta													2	1			3
28	Shruti Jain					4	2	1		8	5			3				23
29	Shweta Pandit	2				2					2			7	3		1	17
30	Solomon Raju	1				1				2								4
31	Sujit Kumar Patel																	0
32	Sunil Datt Sharma					1								2	2			5
33	SVRK RAO																	0
34	T S Lamba																	0
35	Tapan Jain	2	8			1												11
36	Vanita Rana					1												1
37	Vikas Baghel																	0
38	Vikas hastir																	
39	Miscellaneous																	0
	<b>Grand Total</b>	31	27	0	1	25	6	2	0	18	17	0	0	47	20	0	3	
		59				33				35				70				197

## PUBLICATIONS-DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

S. N.	AUTHOR(S)	DEPT.	YEAR	TITLE	Publication Type	SCOPUS/SCI/WoS
1	Nancy Singh, Sunil Datt Sharma , Raghu M. Yennamalli	ECE	2017	Identification of Structural Elements in miRNA using Signal Processing Method.	Conference Poster	Newly added and updated om JUIT Website
2	Arti Gupta, Sunil Datt Sharma	ECE	2017	Study of the Tandem Repeats in DNA Sequences using Proposed Algorithm	Conference Paper	Newly added and updated om JUIT Website
3	Amit Kumar Singh, Basant Kumar, Ghanshyam Singh, Anand Mohan	ECE	2017	Medical Image Watermarking: Techniques and Applications	Book	
4	Shweta Pandit, Ghanshyam Singh	ECE	2017	Spectrum Sharing in Cognitive Radio Networks: Medium Access Control Protocol Based Approach.	Book	
5	Ashutosh Sharma, Rajiv Kumar	ECE	2017	A Framework for Pre-Computed Multi-Constrained Quickest QOS Path Algorithm.	Journal Articles	SCOPUS
6	I Verma, P Thakur, Shweta Pandit, K R Jha, Ghanshyam Singh	ECE	2017	Analytical framework of small-gap photoconductive dipole antenna using equivalent circuit mode.	Journal Articles	SCI
7	Prabhat Thakur, Alok Kumar, Shweta Pandit, Ghanshyam Singh, S. N. Satashia	ECE	2017	Performance analysis of high-traffic cognitive radio communication system using hybrid spectrum access, prediction and monitoring techniques.	Journal Articles	SCI
8	Prabhat Thakur, Alok Kumar, Shweta Pandit, Ghanshyam Singh, S. N. Satashia	ECE	2017	Performance analysis of cooperative spectrum monitoring in cognitive radio network.	Journal Articles	SCI
9	Prabhat Thakur, Alok Kumar, Shweta Pandit, Ghanshyam Singh, S. N. Satashia	ECE	2017	Throughput Enhancement in Cognitive Radio Networks Using Channel-Prediction-Probabilities and Improved Frame Structure.	Journal Articles	SCI
10	Amandeep, Shruti Jain, Sahil Bhusri	ECE	2017	CAD for Two Class Classification of Lung Cancer using Statistical Features.	Journal Articles	

11	Shruti Jain	ECE	2017	Classification of EGF and Insulin Receptors using Gabor Wavelet Transform.	Journal Articles	
12	Shruti Jain	ECE	2017	Regression Modeling of Different Proteins using Linear and Multiple Analysis.	Journal Articles	SCOPUS
13	Nancy Singh, Sunil Datt Sharma , Raghu M. Yennamalli	ECE	2017	Modified S-transform as a tool to identify secondary structure elements in RNA.	Journal Articles	SCOPUS
14	Meenakshi Sood	ECE	2017	Effectiveness of Reconstruction Methods in Compressive Sensing for Biomedical Images.	Journal Articles	SCOPUS
15	Meenakshi Sood	ECE	2017	Implementation and Performance Assessment of Compressed Sensing for Images and Video Signals.	Journal Articles	SCOPUS
16	Geetanjali , Hemraj Saini, Ghanshyam Singh	ECE	2017	Aspects of Trusted Routing Communication in Smart Networks.	Journal Articles	SCI-E
17	Sunil Datt Sharma , Rajiv Saxena, Sanjeev Narayan Sharma	ECE	2017	Tandem Repeats Detection in DNA Sequences using Kaiser Window Based Adaptive S-Transform.	Journal Articles	SCOPUS
18	Indu Bala, Manjit Singh Bhamrah, Ghanshyam Singh	ECE	2017	Capacity in fading environment based on soft sensing information under spectrum sharing constraints.	Journal Articles	SCI
19	Prabhat Thakur, Alok Kumar, Shweta Pandit, Ghanshyam Singh, S N Satashia	ECE	2017	Advanced frame structures for hybrid spectrum access strategy in cognitive radio communication systems.	Journal Articles	SCI
20	Bindu Bharti, Ghanshyam Singh	ECE	2017	Analysis of capacity limits over fading environment with imperfect channel state information for cognitive radio network.	Journal Articles	SCI
21	Prabhat Thakur, Alok Kumar, Shweta Pandit, Ghanshyam Singh, S N Satashia	ECE	2017	Performance analysis of high-traffic cognitive radio communication system using hybrid spectrum access, prediction and monitoring techniques.	Journal Articles	SCI

22	Indu Bala, Manjit Singh Bhamrah, Ghanshyam Singh	ECE	2017	Rate and power optimization under received-power constraints for opportunistic spectrum-sharing communication.	Journal Articles	SCI-E
23	Chitra Singh, K R Jha, Varinder Singh, Ghanshyam Singh	ECE	2017	Cross-polarization reduction of microstrip antenna using microwave absorbers.	Journal Articles	SCI-E
24	Isha Malhotra, K R Jha, Ghanshyam Singh	ECE	2017	Analysis of highly directive photoconductive dipole antenna at terahertz frequency for sensing and imaging applications.	Journal Articles	SCI
25	Prabhat Thakur, Alok Kumar, Shweta Pandit, Ghanshyam Singh, S N Satashia	ECE	2017	Spectrum mobility in cognitive radio networks using spectrum prediction and monitoring techniques.	Journal Articles	SCI
26	U. Bashir, Kumud R. Jha, Ghanshyam Mishra, Ghanshyam Singh, Satish K. Sharma	ECE	2017	Octahedron shaped linearly polarized antenna for multi-standard services including RFID and IoT.	Journal Articles	SCI
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189	Kaushlendra Kumar Pandey	ECE	2014	Implementation of Energy-Efficient Cooperative Communication for Multi-hop WSN.	Abstract	

<b>STATISTICS_ECE</b>						
<b>Year</b>	<b>Books</b>	<b>Book Chapters</b>	<b>Journal Articles</b>	<b>Conference Papers</b>	<b>Abstract/ Poster Presentations/ Invited Lectures in Conferences</b>	
<b>2014</b>	<b>1</b>	<b>0</b>	<b>25</b>	<b>20</b>	<b>1</b>	<b>47</b>
<b>2015</b>	<b>0</b>	<b>2</b>	<b>23</b>	<b>13</b>	<b>0</b>	<b>38</b>
<b>2016</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>	<b>1</b>	<b>37</b>
<b>2017</b>	<b>2</b>	<b>0</b>	<b>35</b>	<b>30</b>	<b>0</b>	<b>67</b>
	<b>3</b>	<b>2</b>	<b>107</b>	<b>75</b>	<b>2</b>	<b>189</b>

# Department of Electronics and Communication Engineering, JUIT

## Publications

2014

**S V Bhooshan**

### Journal

1. Harbinder Singh, Vinay Kumar, and Sunil Bhooshan, "A Novel Approach for Detail-Enhanced Exposure Fusion Using Guided Filter," *The Scientific World Journal*, vol. 2014, Article ID 659217, 8 pages, 2014. doi:10.1155/2014/659217.
2. Harbinder Singh, Vinay Kumar, and Sunil Bhooshan, "Weighted Least Squares Based Detail Enhanced Exposure Fusion," *ISRN Signal Processing*, vol. 2014, Article ID 498762, 18 pages, 2014. doi:10.1155/2014/498762.
3. Tapan Jain, Davinder Singh Saini, Sunil Vidya Bhooshan (2014). Cluster Head Selection in a Homogeneous Wireless Sensor Network Ensuring Full Connectivity with Minimum Isolated Nodes. *Journal of Sensors*, 2014 (2014), Article ID 724219-8p. <http://dx.doi.org/10.1109/TVT.2014.2334605>

**D S SAINI**

### Journal

1. Same rate and pattern recognition search of orthogonal variable spreading factor code tree for wideband code division multiple access networks. I
2. Top down code search to locate an optimum code and reduction in code blocking for CDMA networks.
3. B. Gupta , and D. S. Saini , "Moment generating function-based pairwise error probability analysis of concatenated low density parity check codes with Alamouti coded multiple input multiple output-orthogonal frequency division multiplexing systems", *IET Commun.* , Vol. 8(3) , Feb. 2014, p. 399 – 412. (IET), IF:.637

## **Conference**

1. Utilizing mobile station capacity and reduction in code blocking.
2. BER performance comparison of MIMO system with STBC and MRC over different fading channels.
3. Transmit power optimization in Cognitive Radio Networks using game theoretic approach.

## **Bhasker Gupta**

### **Journals**

1. Bhasker Gupta and Davinder Singh Saini, "Moment Generating Function-Based Pairwise Error Probability Analysis of Concatenated Low Density Parity Check Codes with Alamouti Coded Multiple Input Multiple Output-Orthogonal Frequency Division Multiplexing Systems", IET Communications, Vol, 8, No. 3, PP. 399-412, Feb. 2014.

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1. Pallvi Chawla and Bhasker Gupta , " BER Analysis of Single/Multi-User LTE and LTE- A Systems ", Proc. 4<sup>th</sup> IEEE International Advance Computing Conference (IACC-14), ITM University Gurgaon, India, pp, Feb 21-22, 2014.
2. Pallvi Chawla and Bhasker Gupta , " SINR, MGF and PEP based BER performance analysis of multi-user MIMO systems ," Proc. 2014 Recent Advances in Engineering and Computational Sciences (RAECS), pp.1-6, 6-8 March 2014.

## **Meenakshi Sood**

### **Journal**

1. Aditya Ahuja, Kamal Dewan, Nikita Gupta and Meenakshi Sood, "Enhancing the competence of enterprise network using contemporary networking paradigms" Transactions on Networks and Communications, Volume 2 No 5, Oct (2014); pp: 201-213 DOI: 10.14738/tnc.25.565 URL: <http://dx.doi.org/10.14738/tnc.25.565>

## Conference

1. Meenakshi Sood and Sunil V. Bhooshan, “ Modular Based Dynamic Analysis of EEG Signals Using Non-Linear Feature” IEEE 3rd International Conference on Parallel, Distributed and Grid Computing 11-13 Dec 2014, JUIT Waknaghat, Solan. pp. 186-190  
DOI: 10.1109/PDGC.2014.7030739 Print ISBN: 978-1-4799-7682-9

## Shruti Jain

### Journal :

1. Shruti Jain, “Design and Simulation of Fuzzy System Using Two Stage CMOS Operational Amplifier”, Journal of Active and Passive Electronic Devices, 2014, 9(4), 329-338.
2. Shruti Jain, “Implementation of Triangular Membership Function using Current Differencing Buffered Amplifier”, International Journal Of Current Engineering And Scientific Research (IJCESR), Technical Research Organization India (TROI), 2014, 1(3), 21-24.
3. Shruti Jain, “Implementation of Fuzzy System using Operational Transconductance Amplifier for ERK pathway of EGF/ Insulin leading to Cell Survival/ Death”, J Pharm Biomed Sci, 2014, 4(8), 701-707.
4. Shruti Jain, “Design and Simulation of Fuzzy Implication Function of Fuzzy System Using Two Stage CMOS Operational Amplifier”, International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), 150-155, 7(2): Dec 2013- Feb 2014. (Impact factor 1.23)
5. Shruti Jain, “Design and simulation of fuzzy membership functions for the fuzzification module of fuzzy system using operational amplifier”, International Journal of Systems, Control and Communications (IJSCC), 69-83, 6(1):2014.
6. Aastha Afsar, Rohit Chauhan, Somya Verma, Shruti Jain, “Energy Harvesting Using Thermoelectric Materials” , International Journal of Advanced Information Science & Technology, 32(32), 28-37, Dec 2014.

7. Raman Gupta, Sandeep Singh, Kashish Garg, Shruti Jain, “Indigenous Design of Electronic Circuit for Electrocardiograph”, International Journal of Innovative Research in Science, Engineering and Technology, 3(5), 12138-12145, May 2014.

### **Conferences:**

1. Shruti Jain, “Design of Sigma and Anti sigma membership functions using Operational Transconductance Amplifier”, Oct 15-16, 2014, pp 29, National Seminar on Recent Trends in VLSI and Embedded Systems (RTVES-2014), at Jaipur National University, Jaipur, Rajasthan, India.

### **Ghanshyam Singh**

#### **Book**

1. K R Jha and G Singh, “Terahertz Planar Antennas for Next Generation Communication” Springer: Switzerland (ISBN: 978-3-319-02340-3). <http://dx.doi.org/10.1007/978-3-319-02341-0>

#### **Journal**

1. Garima Bharti, K R Jha, and G Singh, “A synthesis technique of single square loop frequency selective surface at terahertz frequency,” OPTIK: International Journal for Light and Electron Optics, vol. 125, no. 21, pp. 6428-6435, 2014.

[http://dx.doi.org/HYPERLINK\"http://dx.doi.org/10.1016/j.ijleo.2014.08.009](http://dx.doi.org/HYPERLINK\)10.1016/j.ijleo.2014.08.009.

2. K R Jha and G Singh, “Effect of unit-cells of the frequency selective surface as superstrate on the directivity of rectangular microstrip antennas” Journal of Computational Electronics, vol. 13, no. 2, pp. 496-502, 2014. [http://dx.doi.org/HYPERLINK\"http://dx.doi.org/10.1007/s10825-014-0560-5](http://dx.doi.org/HYPERLINK\)
3. Vivek K Dwivedi and G Singh, “Moment Generating Function based performance analysis of maximal ratio combining diversity receivers in the generalized-K fading channels”,



- Wireless Personal Communication, vol. 77, no. 3, pp. 1959-1975 Jan. 2014.  
<http://dx.doi.org/10.1007/s11277-014-1618-1>
4. Shweta Pandit and G Singh, "Throughput maximization with reduced data loss rate in cognitive radio network," Telecommunication Systems, vo. 57, no. 2, pp 209-215, October 2014.<http://dx.doi.org/10.1007/s11235-013-9858-z>
  5. Indu Bala, Manjit Singh Bhamrah, and Ghanshyam Singh, "Ergodic Capacity Analysis for Underlay Cognitive Radio System," International Journal of Mobile Network Communications & Telematics ( IJMNCT) Vol. 4, No.6,December 2014
  6. Garima Bharti, K R Jha, and G Singh, "A synthesis technique of single square loop frequency selective surface at terahertz frequency," OPTIK: International Journal for Light and Electron Optics, (Online) July 2014. <http://dx.doi.org/10.1016/j.ijleo.2014.08.009>
  7. Shweta Pandit and G Singh, "Backoff algorithm in cognitive radio MAC- protocol for throughput enhancement," IEEE Trans. Vehicular Technology, June 2014. <http://dx.doi.org/10.1109/TVT.2014.2334605>
  8. Garima Bharti, K R Jha, G Singh, and Rajeev Jyoti, "Azimuthally periodic wedge shaped metal vane loaded circular ring frequency selective surface," Int. J. of Microwave and Wireless Technologies, (Online) April 2014. <http://dx.doi.org/10.1017/S1759078714000488>
  9. Indu Bala, M S Bhamrah, G Singh, "Analytical modelling of Ad-Hoc cognitive radio environment for optimum power control", Int. Journal of Computer Applications, vol. 92, no. 7, pp. 19-22, April 2014. <http://dx.doi.org/10.5120/16021-5023>

## **Pradeep Kumar**

### **Journal**

1. P. Kumar, "Computation of Resonant Frequency of Gap-coupled Circular Ring Microstrip Patch Antennas", Int. J. of Automation and Computing, vol. 11, no. 6,pp. 671-675, 2014 (springer).
2. P. Kumar and J. L. Masa Campos, "Dual Polarized Microstrip Patch Antennas for Ultra Wideband Applications", Microwave and Optical Technology Letters, vol. 56, no. 9, pp. 2174-2179, 2014 (Wiley).

## **Rajiv Kumar**

### **Conferences**

1. Rajiv Kumar, Sumit Vardhan, Vipul Sharma, "A Dependable Routing Framework for Seamless Traffic Flow over the Computer Network," IEEE International Conference on Reliability Optimization and Information Technology, Faridabad, India, Feb. 6-8,2014.

## **M. Wajid**

### **Conferences**

1. Goel Abhilasha Rani, Akhil Ranjan, Mohammad Wajid (2014). VLSI architecture and implementation of statistical multiplexer. Proceedings of the Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity[Ghaziabad, India : 28- 29 November 2014], pp.360-363.
2. Mohammad Wajid, Abhilasha Rani Goel (2014). Pixel Probability Based Estimation of Skew Angle for Text Images. Proceedings of the International Conference on Advances in Computing and Communications [4th : Cochin, India : 27-29 August 2014], pp.105-108..

## **Vanita Rana**

### **Conferences**

1. V. Rana, "Spectrum Assignment In Cognitive Radio Environment Using Game Theory : A Survey" in National conference on Recent Advances in Information Technology" at SUSEC, Tangori (Mohali) on 25 Nov. 2014.
2. V. Rana, "Investigation of Random Diagonal Code Set for FO-CDMA System" in National conference on Recent Advances in Information Technology" at SUSEC, Tangori (Mohali) on 25 Nov. 2014.

## **Salman Raju**

### **Journal**

1. Salman Raju Talluri, Sunil Vidhya Bhooshan, "Analysis on some other models of transmission lines for CRLH meta-materials" International Journal of Advanced Research in Computer and Communication Engineering, Vol.3, Issue 7, July 2014
2. Salman Raju Talluri, Sunil Vidhya Bhooshan, "Effect of non-linearity on delays and velocities in a CRLH-MTM transmission line model" International Journal of Advanced Research in Computer and Communication Engineering, Vol.3, Issue 10, October 2014

### **Sunil Datt Sharma**

#### **Conference**

1. S.D.Sharma, Rajiv Saxena, S.N.Sharma (2014), "Role of Transforms in Genomic Data Analysis," Int. Conf. on Advances in Pure and Applied Mathematics (ICAPAM-2014), JLN Govt. College, Haripur, Manali, India. (7-9 march)

### **Nafis uddin Khan**

#### **Journal**

1. Nafis uddin Khan, K. V. Arya and Manisha Pattanaik, "Edge Preservation of Impulse Noise Filtered Images by Improved Anisotropic Diffusion", Multimedia Tools and Applications, Volume 73, pp. 573-597, 2014 (Indexed in SCIE and Scopus) Impact Factor 1.346, Citation Index 06, SNIP 1.240, SJR 0.646.
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### **Tapan Jain:**

#### **Journals**

1. Tapan Jain , Davinder Singh Saini , Sunil Vidya Bhooshan (2014)Cluster Head Selection in a Homogeneous Wireless Sensor Network Ensuring Full Connectivity with Minimum Isolated Nodes. Journal of Sensors , Vol. 2014, Article ID 724219, 10.1155/2014/724219.

## **Conference**

1. Tapan Jain , Davinder Singh Saini , Sunil Vidya Bhooshan ( 2014) Performance Analysis of Hierarchical Agglomerative Clustering in a Wireless Sensor Network using Quantitative data. Proceedings of the International Conference on Information Systems & Computer Networks. [Mathura: 1-2 March, 2014]
2. Tapan Jain , Davinder Singh Saini , Sunil Vidya Bhooshan (2014) Increasing Lifetime of a Wireless Sensor Network Using Multiple Sinks .Proceedings of the International Information Technology: New Generations [11 : Las Vegas, USA : 7-9 April, 2014], pp.616-619.. Google Citation
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## **Jitendra Virmanai**

### **Journal**

1. Virmani, J., Kumar, V., Kalra, N. and Khandelwal, N., ‘ Neural network ensemble based CAD system for focal liver lesions using B-mode ultrasound’ , Journal of Digital Imaging, Vol. 27, No.4, pp. 520-537, 2014.

# **Department of Electronics and Communication Engineering, JUIT**

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1. Tapan Jain, Davinder Singh Saini, Sunil VidyaBhooshan (2015). Lifetime Optimization of a Multiple Sink Wireless Sensor Network through Energy Balancing. Journal of Sensors, 2015 (Article ID 921250), 6p.-. Google Citation

#### **Davinder Singh Saini**

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1. Quantized-Non Quantized Code Tree Partitioning and Reduction in Internal-External Fragmentation.

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2. Implementation of MPLS routing in traditional LEACH.

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##### **Journals**

1. Meenakshi Sood and Sunil V. Bhooshan, "Parameter-selective based CAD system for epileptic seizure classification", International Journal of Applied Engineering Research, July 2015, 10 (10) pp. 25389 - 25408 . Scopus Indexed Print ISSN 0973-4562, Online ISSN 1087—1090

2. Mohd. Abbas Murtaza, Ruchita Gupta, Meenakshi Sood, “Resilient Real-time Hand Gesture Recognition System” International Journal of Advanced Information Science and Technology (IJAIST) Vol.37, No.37, May 2015, ISSN: 2319:2682.

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1. Meenakshi Sood and Sunil V. Bhooshan, “Prognosis of Epileptic seizures using EEG signals” International Conference on Image Information Processing (ICIIP -2015) Jaypee University of Information Technology, pp.12-16, December 21-24, 2015

Print ISBN:978-1-5090-0147-7 ,Doi: /10.1109/ICIIP.2015.7414711

2. Meenakshi Sood and Sunil V. Bhooshan, “ Hierarchical Computer Aided Diagnostic System for Seizure Classification” Proceedings of the 9th INDIACom; INDIACom-2015; IEEE Conference ID: 35071, 2<sup>nd</sup> IEEE International Conference on “Computing for Sustainable Global Development”, 11<sup>th</sup> – 13<sup>th</sup> March, 2015, (BVICAM), New Delhi (INDIA), 1925 – 1930 Print ISBN: 978-9-3805-4415-1

### **Shruti Jain**

#### **Book Chapter**

1. Shruti Jain, “Design and Simulation of Fuzzy System Using Operational Transconductance Amplifier”, pp 265-273, Smart Innovation, Systems and Technologies, Springer, Volume 31, 2015

[http://link.springer.com/chapter/10.1007/978-81-322-2205-7\\_25](http://link.springer.com/chapter/10.1007/978-81-322-2205-7_25)

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1. Shruti Jain, D. S. Chauhan, “Mathematical Analysis of Receptors For Survival Proteins”, International Journal of Pharma and Bio Sciences (IJPBS),6(3), 164-176 : 2015.
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5. Ritendra Mishra, Shruti Jain, C. Durga Prasad, “A Review On Piezoelectric Material As A Source Of Generating Electricity And Its Possibility To Fabricate Devices For Daily Uses Of Army Personnel” , International Journal of Systems, Control and Communications (IJSCC) 6(3), 212-221, 2015.

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1. Shruti Jain , “Mathematical Analysis and Probability Density Function of FKHR pathway for Cell Survival /Death” , Aug 1-2, 2015, pp 84-93, Control System and Power Electronics – CSPE 2015, Bangalore 2015
2. Shruti Jain, D.S.Chauhan, “Linear and Non Linear Modeling of Protein Kinase B/ Akt”, July 3-4 2015, pp 81-88 , International Conference on Information and Communication Technology for Sustainable Development (ICT4SD - 2015), Ahmedabad, India.
3. Shruti Jain, D.S.Chauhan, “Linear and Non Linear Modeling of Protein Kinase B/ Akt”, July 3-4 2015, pp 81-88 , International Conference on Information and Communication Technology for Sustainable Development (ICT4SD - 2015), Ahmedabad, India.

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1. Indu Bala, Manjit Singh Bhamrah, G Singh, “Capacity in fading environment based on soft sensing information under spectrum sharing constraints”, Wireless Network, (Online), Dec. 2015. <http://dx.doi.org/10.1007/s11276-015-1172-0>
2. Garima Bharti, K R Jha, and G Singh, “Terahertz frequency selective surface for future wireless communication systems”, OPTIK: International Journal for Light and Electron Optics, vol. 126, no. 24, pp. 5909-5917, December 2015. <http://dx.doi.org/10.1016/j.ijleo.2015.09.038>

3. Garima Bharti, K R Jha, G Singh, and Rajeev Jyoti, "Planar tri-band frequency selective surface with transmission in S-band and reflection in Ka/Ku-band", *Radioelectronics and Communication Systems*, vol. 58, no. 11, pp. 479-486, Nov. 2015. <http://dx.doi.org/10.3103/S0735272715110011>
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11. P K Gupta and G Singh, "A novel human computer interaction aware algorithm to minimize energy consumption," *Wireless Personal Communication*, vol. 81, no. 2, pp 661-683, March 2015.<http://dx.doi.org/10.1007/s11277-014-2151-y>
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14. Garima Bharti, K R Jha, G Singh, and Rajeev Jyoti, "Azimuthally periodic wedge shaped metal vane loaded circular ring frequency selective surface," *Int. J. of Microwave and Wireless Technologies*, vol. 7, no. 1, pp. 95-106, Feb. 2015. <http://dx.doi.org/10.1017/S1759078714000488>
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16. I Bala, MS Bhamrah, V Rana, N Jain, G Singh, "Adaptive Power Control Scheme for the Cognitive Radio System Based on Receiver Sensitivity", in Koushik Maharatna, Goutam Kumar Dalapati, P K Banerjee, Amiya Kumar Mallick, Moumita Mukherjee, ed. "Computational Advancement in Communication Circuits and Systems," New Delhi: Springer, pp. 69-79, 2015.(ISBN: 978-81-322-2273-6).
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1. P. Kumar and J. L. Masa Campos, "Waveguide Fed Circular Microstrip Patch Antenna for Ku Band Applications", *Microwave and Optical Technology Letters*, vol.57, no. 3, pp. 585-589, 2015. (Wiley).

## **Rajiv Kumar**

### **Journals**

1. Ashutosh Sharma, Rajiv Kumar, "Realistic Comparison of Performance Parameters of Static and Dynamic Unicast Routing over Mesh Topology," *International Journal of Scientific & Engineering Research (IJSER)*, Volume 6, Issue 12, Dec 2015.

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1. Rajiv Kumar, Piotr A Cholda, "A Framework for Continuity of Mission-Critical Network Services," *IEEE International Conference on Advanced Networks and Telecommunication*, Kolkata, India, Dec. 15-18, 2015.

## **Neeru Sharma**

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- 1 Divya Joshi, Neeru Sharma, "Spectrum Sensing for Cognitive Radio Using Hybrid Matched Filter Single Cycle Cyclostationary Feature Detector", *International Journal of Information Engineering and Electronic Business*, Volume 7, Issue 5, September 2015, pp. 13-19. DOI: 10.5815/ijieeb.2015.05.03

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## **Salman Raju**

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1. Ankur Thakur, Salman Raju Talluri, "Comparative analysis on an exponential form of pulse with an integer and non-integer exponent to use in pulse compression with better resolution in range and velocity", International Journal of Engineering Research and Applications (IJERA), vol. 5, no.11,pp.104-110, 2015.
2. Salman Raju Talluri, "Delay properties of a transmission line model with non linear Miller loading" International Journal of Applied Engineering Research, Vol.10, Number 14, 2015.
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1. Shweta Pandit and G. Singh, "An overview of spectrum sharing techniques in cognitive radio communication system," Wireless Networks, Published Online Dec. 2015, DOI 10.1007/s11276-015-1171-1

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1. P. K. Meher, B. K. Mohanty, S. K. Patel, S. Ganguly and T. Srikanthan, "Efficient VLSI architecture for decimation-in-time fast Fourier transform of real-valued data", IEEE Transaction on Circuits and Systems-I, Regular Papers, vol.62, no.12, pp.2836-2845, Dec. 2015.
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1. A.K. Singh, S. Rajoriya, S. Nikhil, Tapan Jain (2015). Design constraint in single-hop and multi-hop wireless sensor network using different network model architecture. Proceedings of the International Conference on Computing, Communication & Automation [Noida, India : 15-16 May 2015], pp.436-441.
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### **Jitendra Virmani**

#### **Book Chapter**

1. PCA-PNN and PCA-SVM Based CAD Systems for Breast Density Classification.

#### **Conference Paper**

1. Reduction of Speckle noise from Medical Images using Principal Component Analysis Image Fusion

### **Bhasker Gupta**

#### **Conference Paper**

1. Performance evaluation of linear/non-linear precoding schemes for downlink multi-user MIMO systems.

# Department of Electronics and Communication Engineering, JUIT

## Publications

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#### Shruti Jain

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5. Sahil Bhusri , Shruti Jain, Jitendra Virmani, “Breast Lesions Classification using the Amalagation of morphological and texture features “ International Journal of Pharma and BioSciences (IJPBS), 7(2) B , 617-624, Apr-Jun 2016.
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10. Shruti Jain, “Mathematical Analysis using Frequency and Cumulative Distribution functions for Mitogenic Pathway”, Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS),7(3), 262-272: May - Jun 2016.
11. Paras Goyal, Sachin Arora, Dalchand Sharma, Shruti Jain, “Design and Simulation of Gaussian Membership function”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering , 4(2), pp 26-28: 2016.

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2. Ritendra Mishra , Shruti Jain , C Durgaprasad, “Analysis of Piezoelectric Buzzers as Vibration Energy Harvesters ”, March 16<sup>th</sup>- 18<sup>th</sup>, 2016, pp 2476-2480, 10th INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.
3. Sahil Bhusri , Shruti Jain, Jitendra Virmani, “Classification of Breast Lesions based on Laws’Feature Extraction Techniques ”, March 16<sup>th</sup>- 18<sup>th</sup>, 2016, pp 2523-2527, 10th INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.
4. Shailja Rana , Shruti Jain, Jitendra Virmani, “Classification of Kidney Lesions using Gabor Wavelet Texture Features”, March 16<sup>th</sup>- 18<sup>th</sup>, 2016, pp 2528-2532, 10th INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.

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2. Prabhat Thakur, G Singh, and S N Satasia, "Spectrum sharing in cognitive radio communication system using power constraints: A technical review", Perspectives in Science, vol. 8, pp. 651-653, Sept. 2016. <http://dx.doi.org/10.1016/j.pisc.2016.06.048>
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### Shruti Jain

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2. Amandeep, Shruti Jain, Sahil Bhusri, “CAD for Two Class Classification of Lung Cancer using Statistical Features”, International Journal of Pharmaceutical Sciences Review and Research (IJPSRR), 45(2), pp 55-60, 2017
3. Shruti Jain, “ Parametric and Non Parametric Distribution Analysis of AkT for Cell Survival/Death” , International Journal of Artificial Intelligence and Soft Computing, 6(1), 43- 55, 2017.
4. Shruti Jain, “Regression modelling of different proteins using linear and multiple analysis”, Network Biology. 7(4), 80-93, 2017.
5. Shruti Jain, “Implementation of Marker Proteins Using Standardised Effect”, Journal of Global Pharma Technology (JGPT), 9(5), 22-27: 2017.
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- 1 Dogra J, Sood M, Jain S and Prashar N (2017). Segmentation of Magnetic Resonance Images of Brain using Thresholding Techniques, In 4th IEEE International Conference

- on signal processing and control (ISPCC), Jaypee University of Information technology (Waknaghat, Solan: 21-23 September 2017). p.311-315.
- 2 Prashar N, Jain S, Sood M and Dogra J (2017). Review of Biomedical System for High Performance Applications. In 4th IEEE International Conference on signal processing and control (ISPCC), Jaypee University of Information technology (Waknaghat, Solan: 21- 23 September 2017). p.300-304.
  - 3 Sahil Bhusri , Shruti Jain, “Classification of Breast Lesions Using Texture Ratio Vector Technique”, March 1st - 3rd , 2017, pp 6289-6293, Proceedings of the 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.
  - 4 Radhika Thakur, Shruti Jain, “ FPGA Implementation of Adder Circuit using Quaternary Signed Digit Number System”, March 1st - 3rd , 2017, pp 6273-6277, Proceedings of the 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.
  - 5 Amandeep, Shruti Jain, Sahil Bhusri, “CAD System for Non Small Cell Lung Carcinoma using Laws’ Mask Analysis”, March 1st - 3rd , 2017, pp 6285-6288, Proceedings of the 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.
  - 6 Shreya Sharma, Shruti Jain, Sahil Bhusri , “ Classification of Breast Lesions using Gabor Wavelet Filter for Three Classes” March 1st - 3rd , 2017, pp 6282-6284, Proceedings of the 11th INDIACom- 4th 2017International Conference on “Computing for Sustainable Global Development”, BVICAM, New Delhi.
  - 7 Shruti Jain , “Analysis & Simulation of Electrical Parameters of Fuzzy System Using Different Types of Current Amplifiers with Different Membership Functions for AkT Pathway”, Dec 21-23, 2017, pp , 2017 Fourth International Conference on Image Information Processing, ICIIP 2017, Jaypee University of Information technology, Waknaghat, Solan, H.P, India.
  - 8 Radhika Thakur, Shruti Jain, Meenakshi Sood “FPGA Implementation of Unsigned Multiplier Circuit Based on Quaternary Signed Digit Number System” , 4th IEEE International Conference on signal processing and control (ISPCC 2017), Jaypee University

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- 11 Akanksha Maheshwari, Shubham Gupta, Shruti Jain “Implementation of Carry Free Addition using Quaternary Signed Digit”, March 1<sup>st</sup> - 3<sup>rd</sup> , 2017, pp 6268-6272, Proceedings of the 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.

## **Ashwani Sharma**

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1. A. Sharma, Mohd. D. Ansari and R. Kumar, "A Comparative Study of Edge Detectors in Digital Image Processing," in proceedings of 2017 Fourth International Conference on Signal Processing, Computing and Control (ISPCC), Wagnaghat, pp. , September 2017. (Scopus)
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1. Shweta Pandit and Ghanshyam Singh, "Spectrum Sharing in Cognitive Radio Networks: Medium Access Control Protocol Based Approach" Springer International Publishing, DOI 10.1007/978-3-319-53147-2, eBook ISBN 978-3-319-53147-2, 2017.

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### **Mohit Garg**

#### **Conference**

1. Mohit Garg, “Model Order Reduction and Approximation Analysis for Control System Design”, Proceedings of 4th IEEE International Conference on Signal Processing, Computing and Control, ISPCC 2k17, 21st -23rd Sept, 2017, Jaypee University of Information Technology, Waknaghat, India.(ISBN: 978-1-5090-5837-2)

### **Nishant Jain**

#### **Conference**

1. Nishant Jain, Vinod Kumar, “Alpha-trimmed First Order Statistics for the Classification of Liver US Images”, Proceedings of 6<sup>th</sup> IEEE International Conference on Computer Applications in Electrical Engineering, CERA17, 5<sup>th</sup> – 7<sup>th</sup> Oct, 2017, Indian Institute of Technology Roorkee.
2. Nishant Jain, Vinod Kumar, “Approach Towards Automatic Segmentation of Diaphragm from Ultrasound Images”, Proceedings of Fourth International Conference on Image Information Processing (ICIIP -2017), 21<sup>st</sup> -23<sup>rd</sup> Dec, 2017, Jaypee University of Information Technology Waknaghat.

### **Sunildatt Sharma**

#### **Journal**

1. Sharma, S. D., Saxena, R., & Sharma, S. N. (2017). Tandem repeats detection in DNA sequences using Kaiser Window based adaptive S-transform. *Bio-Algorithms and Med-Systems*, 13(3), 167-173.
2. Nancy Singh, Sunil Datt Sharma , Raghu M. Yennamalli (2017). Modified S-transform as a tool to identify secondary structure elements in RNA. *Bio-Algorithms and Med-Systems*, 13 (4), 187-193

### **Conference**

1. Sanyogita Sharma, Pardeep garg, Sunildatt Sharma “Performance analysis of window functions for exon prediction in DNA sequences, in IEEE conference on communication, computing and automation, May 2017.
2. Nancy Singh , Sunil Datt Sharma , Ragothaman M.Yennamalli “Identification of Structural Elements in miRNA using Signal Processing Method”, Presented a poster in Annual Symposium of the Indian Biophysical Society 2017, at IISER Mohali, Punjab, 23 march 2017
3. Pardeep Garg, Sunildatt Sharma, and S. N. Sharma,(2017) “Tandem Repeats Detection in DNA Sequences Using P-Spectrum Based Algorithm”, proceeding of IEEE Conference on Information and Communication Technology (CICT-2017) at ABV Indian Institute of Information Technology, Gwalior, November 2017.
4. Study of the Tandem Repeats in DNA Sequences using Proposed Algorithm (It is published in conference proceeding and it is not online yet)

### **Nafis Uddin Khan**

#### **Journal**

1. Veervrat Singh, Rajiv Tripathi, Rahul Pachauri and Nafis uddin Khan, “Fuzzy C-Means++ Based Low Power Consumption Routing Protocol for Wireless Sensor Networks in Smart Cities”, *Informatica: An International Journal of Computing and Informatics*, Accepted for publication, 2017 (Article in press), ISSN: 0350-5596.

## **Alok Kumar**

### **Journals**

- 1) Prabhat Thakur, Alok Kumar, Shweta Pandit, Ghanshyam Singh, S N Satashia, "Performance analysis of high-traffic cognitive radio communication system using hybrid spectrum access, prediction and monitoring techniques," *Wireless Networks*, Published Online, Jan 2017. DOI 10.1007/s11276-016-1440-7.
- 2) P. Thakur, A. Kumar, S. Pandit, G. Singh and S. N. Satashia, "Advanced Frame Structures for Hybrid Spectrum Access Strategy in Cognitive Radio Communication Systems," *IEEE Communications Letters*, vol. 21, no. 2, pp. 410-413, Feb. 2017.
- 3) Prabhat Thakur, Alok Kumar, Shweta Pandit, Ghanshyam Singh, and S. N. Satashia, "Spectrum mobility in cognitive radio network using spectrum prediction and monitoring techniques," *Physical Communication*, vol. 24, no. 1-8, 2017.
- 4) Prabhat Thakur, Alok Kumar, Shweta Pandit, Ghanshyam Singh, and S. N. Satashia, "Performance analysis of cognitive radio networks using channel-prediction-probabilities and improved frame structure, *Digital Communications and Networks*," DOI <https://doi.org/10.1016/j.dcan.2017.09.012>, Sep. 2017.
- 5) P Thakur, A Kumar, Shweta Pandit, G Singh, and S N Satashia, "Performance analysis of cooperative spectrum monitoring in cognitive radio network" *Wireless Networks*, Dec. 2017, DOI: 10.1007/s11276-017-1644-5.
- 6) P Thakur, A Kumar, Shweta Pandit, G Singh, and S N Satashia, "Throughput enhancement in cognitive radio networks using channel-prediction-probabilities and improved frame structure," *Digital Communication and Network*, Sep. 2017. <https://doi.org/10.1016/j.dcan.2017.09.012>.

### **Conference**

- 1) A Kumar, P Thakur, Shweta Pandit, and G Singh, "Performance analysis of different threshold selection schemes in energy detection for cognitive radio communication systems," *Proc. 2017 Fourth International Conference on Image Information Processing (ICIIP -2017)*, Wakhaghat, India, Dec. 2017.

- 2) A Kumar, P Thakur, Shweta Pandit, and G Singh, "Fixed and dynamic threshold selection criterion in energy detection for cognitive radio communication systems," Proc. 10<sup>th</sup> IEEE International Conference on Contemporary Computing (IC-3), Noida, Aug. 2017.
- 3) P Thakur, A Kumar, Shweta Pandit, G Singh, and S N Satashia, "Effect of imperfect spectrum monitoring on cognitive radio network performance," Proc. 2017 IEEE Fourth International Conference on Image Information Processing (ICIIP -2017), Wakhaghat, India, Dec. 2017.

### **Neeru Sharma**

#### **Journal**

- 1) Pallvi Chawla and Neeru Sharma, "A Robust Approach of Embedding Watermark Blocks in Digital Video for Copyright Protection using Zero Padding Algorithm", Journal of Telecommunication, Electronic and Computer Engineering, Vol 9, Issue 3-6, pp. 23-27.
- 2) Pallvi Chawla and Neeru Sharma, "YCbCR Colour Watermark Embedding in Digital Video for Copyright Protection using Zero Padding", Journal of Telecommunication, Electronic and Computer Engineering, Vol 9, Issue 3-6, pp. 19-22.

#### **Conference**

- 1) Pallvi Chawla and Neeru Sharma, "5G Vision- Performance Analysis and Benefits", 2<sup>nd</sup> International Conference on Recent Innovations in Computer Science and Information Technology.

### **Salman Raju Talluri**

#### **Journal**

- 1) Thakur, Ankur, and Salman Raju Talluri. "Comparative analysis on pulse compression with classical orthogonal polynomials for optimized time-bandwidth product." Ain Shams Engineering Journal (2017).(in press)



## **Ghanshyam Singh**

### **Book**

- 1) Amit K Singh, Basant Kumar, G Singh and Anand Mohan, "Medical Image Watermarking: Techniques and Applications" Springer: Switzerland, July. 2017. (ISBN-13: 978-3319576985)

### **Journals/Magazine**

- 1) Indu Bala, Manjit Singh Bhamrah, G Singh, "Capacity in fading environment based on soft sensing information under spectrum sharing constraints", Wireless Network, vol. 23, no. 2, pp. 519-531, Feb. 2017. <http://dx.doi.org/10.1007/s11276-015-1172-0>
- 2) Bindu Bharti and G Singh, "Analysis of capacity limits over fading environment with imperfect channel state information for cognitive radio network", Annals of Telecommunications, (Online) Jan. 2017.
- 3) Chitra Singh, K R Jha, Varinder Singh, and G Singh, "Cross-polarization reduction of microstrip antenna using microwave absorbers", International Journal of RF and Microwave Computer-Aided Engineering, (Online) Jan. 2017.
- 4) Analytical framework of small-gap photoconductive dipole antenna using equivalent circuit mode.
- 5) .Rate and power optimization under received-power constraints for opportunistic spectrum-sharing communication.
- 6) Analysis of highly directive photoconductive dipole antenna at terahertz frequency for sensing and imaging applications.
- 7) Octahedron shaped linearly polarized antenna for multi-standard services including RFID and IoT.
- 8) Wide stopband harmonic suppressed low-pass filter with novel DGS
- 9) Small Signal Modeling of Scaled Double-Gate MOSFET for GHz Applications

## **Naveen Jaglan**

### **Journal**

- 1) N. Jaglan, S. D. Gupta, B. K. Kanaujia and S. Srivastava “Design of band notched antenna with DG-CEBG structures”, International Journal of Electronics, Taylor and Francis, vol. 105, pp. 58-72, June 2017 DOI: 10.1080/00207217.2017.1340977 (SCI, I.F. (2016)=0.729)
- 2) N. Jaglan, S. D. Gupta, B. K. Kanaujia and S. Srivastava, “Design and development of efficient EBG structures based band notched UWB circular monopole antenna”, Wireless Personal Communication, Springer, vol. 96, pp. 5757-5783, Oct 2017 DOI: 10.1007/s11277-017-4446-2 (SCI, I.F. (2016) = 0.951)

### **Conference Paper**

- 1) Singal, D. kedia, N. Jaglan and S. D. Gupta, “Performance analysis of MIMO-OFDM system with transceivers hardware impairments”, IEEE International Conference on signal processing computing and control (ISPCC) 2017, JUIT Waknaghat, pp. 102-105. 10.1109/ISPCC.2017.8269658 (IEEE Xplore).(Indexed in Scopus)

### **Vikas Baghel**

#### **Conference**

- 1) Vikas Baghel, Paramanand Sharma, “Efficient Pulse Compression using Convolutional Neural Network”, International Conference on Advance Studies in Engineering and Sciences (ICASSES-17), pp.109-114, 02 December 2017.

# Department of Electronics and Communication Engineering, JUIT

## Publications

### AY- 2018

#### Naveen Jaglan

##### Journals

- 1) N. Jaglan, S. D. Gupta, B. k. Kanaujia, S. Srivastava and E. Thakur, “Triple Band Notched DG-CEBG structure based UWB MIMO/Diversity antenna,” Progress in Electromagnetics research C , vol. 80, pp 21-37, 2018.

#### Shruti Jain

##### Journals

1. Navdeep Prashar, Jyotsna Dogra, Meenakshi Sood, Shruti Jain, “Removal of Electromyography Noise from ECG for High Performance Biomedical Systems ”,Network Biology. 8(1), 12-24, 2018.
2. Jyotsna Dogra, Navdeep Prashar, Shruti Jain, Meenakshi Sood, “Improved Methods for Analyzing MRI Brain Images”, Network Biology. 8(1), 1-11, 2018.

##### Conferences

1. Ashish Saini, Nitesh Kumar, Aditya Raj, Shruti Jain “Performance Analysis of Cascaded Denoising Block for ECG Signal Analysis using Different Filters”, March 14<sup>th</sup> - 16<sup>th</sup>, 2018 , pp 2251-2256, Proceedings of the 12<sup>th</sup> INDIACom; INDIACom-2018; IEEE Conference ID: 42835, 2018 5<sup>th</sup> International Conference on “Computing for Sustainable Global Development”, BharatiVidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA).

## **Meenakshi Sood**

### **Journals**

1. Jyotsna Dogra, Navdeep Prashar, Shruti Jain, Meenakshi Sood, “ Improved methods for analyzing MRI brain images” Network Biology, 2018, 8(1): 1-11
2. Navdeep Prashar, Jyotsna Dogra, Meenakshi Sood, Shruti Jain, “Removal of electromyography noise from ECG for high performance biomedical systems” Network Biology, 2018, 8(1): 12-24

## **Nafis Uddin Khan**

### **Conferences**

1. Aditya Mohan and Nafis uddin Khan, “Dataset expansion and accelerated computation for image classification: A practical approach” accepted for presentation in International Conference on Advances in Computing and Data Sciences (ICACDS 2018) to be held in Uttaranchal University, Dehradun, India on 20th and 21st April 2018.

## 2017-18 ( 1 July 17 to January 2018)

Name of faculty	Name of students	Title of the paper	Name of journal/ conference	Month, year	Vol (no)	Page no	DOI/ISB N
Shruti Jain	Shreya Sharma, Sahil Bhusri	Two Class Classification of Breast Lesions using Statistical and Transform Domain features	Journal of Global Pharma Technology (JGPT)			18-24	
<b>Shruti Jain,</b>	Amandeep, Sahil Bhusri	CAD for Two Class Classification of Lung Cancer using Statistical Features	International Journal of Pharmaceutical Sciences Review and Research (IJPSRR)			55-60	
Meenakshi Sood	Parth Sethi, Rubal Sharma, Divyanshu Raghuvanshi	Sign Language Analysis and Recognition to Aid Specially Abled Communicators.	International Conference on Computing for Sustainable Global Development,			6294-6297	
Meenakshi Sood	Surbhi Sharma, Pankhuri Aggarwal, Aditya Parmar	Sun tracking solar panel.	the 4th International Conference on Computing for Sustainable Global Development			6304-6307	
Meenakshi Sood	Antriksh Ojha, Iresh Rastogi, Aeshna Chawla	Prognostication of Epilepsy by EEG Signals using Wavelets.	International Conference on Computing for Sustainable Global Development				
Sunil Datt Sharma , Raghu M. Yennamalli	Nancy Singh	<u>Modified S-transform as a tool to identify</u>	Algorithms and Med-Systems journal	2017	Vol-13(4)	187-193	DOI: <a href="https://doi.org/10.1515/bams">https://doi.org/10.1515/bams</a>

		<u>secondary structure elements in RNA. Bio-</u>					<a href="#">-2017-0023</a>
Pardeep Garg, Sunildatt Sharma	Sanyogita Sharma, ,	Performance Analysis of Window Functions for Exon Prediction in DNA Sequences,	IEEE Conference on Communication, Computing and Automation,	2017			<b>DOI:</b> <a href="#">10.1109/CCA.A.2017.8229816</a>
Alok Kumar	Akhil Sood, Dilpreet	Wi-Fi sysytem	ISPCC 2017	2017			

## 2016-17 ( 1 July 16 to 30 June 2017)

Name of faculty	Name of students	Title of the paper	Name of journal/ conference	Month, year	Vol (no)	Page no	DOI/ISB N
Shruti Jain	Sahil Bhusri	Classification of Breast Lesions Using Texture Ratio Vector Technique	Proceedings of the 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM;	March 1st - 3rd , 2017		6289-6293	
Shruti Jain	Radhika	FPGA Implementation of Adder Circuit using Quaternary Signed Digit Number System	Proceedings of the 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM;	March 1st - 3rd , 2017		6273-6277	
Shruti Jain	Amandeep	CAD System for Non Small Cell Lung Carcinoma using Laws' Mask Analysis	Proceedings of the 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM;	March 1st - 3rd , 2017		6285-6288	
Shruti Jain	Shreya Sharma	Classification of Breast Lesions using Gabor Wavelet Filter for Three Classes	Proceedings of the 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global	March 1st - 3rd , 2017		6282-6284	

			Development, BVICAM;				
Shruti Jain	Sahil Bhusri	Analysis of Breast Lesions Using Laws' Mask Texture Features	2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India	December 22 <sup>nd</sup> - 24 <sup>th</sup> , 2016		6289-6293	
Shruti Jain, Jitendra Virmani,	Shailja Rana	SVM-Based Characterization of Focal Kidney Lesions from B-Mode Ultrasound Images	Journal of Pharmaceutical, Biological and Chemical Sciences	July- Aug, 2016	7(4)	837- 846	
Shruti Jain, Jitendra Virmani	Sahil Bhusri	Classification of breast lesions using the difference of statistical features	Research Journal of Pharmaceutical , Biological and Chemical Sciences	July- Aug 2016	7 (4)	1365-1372	
Shruti Jain, Jitendra Virmani	Shailja Rana	Classification of Focal Kidney lesions using Wavelet-Based Texture Descriptors	International Journal of Pharma and Bio Sciences	7(3) B	July-Sep 2016.	646-652,	
Shruti Jain	Akanksha Dhiman, Ambesh Singh,	Design of Lead II ECG Waveform and Classification Performance for	<i>Research Journal of Pharmaceutical, Biological and Chemical Sciences</i>	7(4)	July-Aug 2016	1226-1231	



	Shwetanjali Dubey	Morphological features using Different Classifiers on Lead II					
Menakshi Sood	Urvashi Charu Bhardwaj,	Medical image compression using compressed sensing	11th INDIACom: 4th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.		1-3 March 2017	6258-6262	
Menakshi Sood	Charu Bhardwaj, Urvashi	Performance evaluation of compressive signal sensing	11th INDIACom: 4th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.		1-3 March 2017	6253-6257	
Meenakshi Sood	BhawnaChandel, Iresh Rastogi	Noise removal from ecg signal using filters	11th INDIACom: 4th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.		1-3 March 2017	6263-6267	

Meenakshi Sood	Antriksh Ojha, Iresh Rastogi, Aeshna Chawla,	Prognostication of epilepsy by EEG signals using wavelets	11th INDIACom: 4th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.		1-3 March 2017	6304-6307	
Meenakshi Sood	Surbhi Sharma, Pankhuri Aggarwal , Aditya Parmar,	Sun tracking solar panel	11th INDIACom: 4th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.		1-3 March 2017		
Meenakshi Sood	Parth Sethi, Rubal Sharma, Divyanshu Raghuvanshi	Sign Language Analysis and Recognition to Aid Specially Abled Communicators	11th INDIACom: 4th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.		1-3 March 2017	<b>6294-6297</b>	
Shruti Jain	Nikita Bansal,	Hardware Optimization and	11th INDIACom: 4th International Conference		1-3 March	6251-6254	

	Kanika Thakur, Priya Verma	Implementation of ECG circuit on FPGA	on Computing for Sustainable Global Development, BVICAM, New Delhi.		2017		
Shruti Jain	Akanksha Maheshwari, Shubham Gupta	Implementation of Carry Free Addition using Quaternary Signed Digit	11th INDIACom: 4th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.		1-3 March 2017	6268-6272	
Shruti Jain	Kaushik Raj Singh, Ossein Sharma . Mansi Kathuria	Design of Energy Harvesting Generators from Waste Heat of Home Chimney using Thermocouples	11th INDIACom: 4th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.		1-3 March 2017	6278-6281	



## 2015-16 ( 1 July 15 to 30 June 2016)

Name of Faculty	Name of Students	Title of the Paper	Name of Journal/ Conference	Month, year	Vol(no.)	Page no	DOI
Meenakshi Sood	Mohd. Abbas Murtaza, Ruchita Gupta	Resilient Real-time Hand Gesture Recognition System	International Journal of Advanced Information Science and Technology (IJAIST)	May 2015	37(37)		
M. Wajid	M. Sharma	Digital Image Separation Algorithm Based on Joint PDF of Mixed Images	<i>Image Processing &amp; Communications (IPC)</i>	Jan 2016	20(1)	5-12	
Salman Raju Talluri	Ankur Thakur	Comparative analysis on an exponential form of pulse with an integer and non-integer exponent to use in pulse compression with better resolution in range and velocity.	International Journal of Engineering Research and Applications (IJERA)	2015	5(11)	pp:104-110	
Neeru Sharma	Divya Joshi	Spectrum Sensing for Cognitive Radio Using Hybrid Matched Filter Single Cycle Cyclostationary Feature Detector	IJIEEB	September 2015	7 (5)	Pp: 13-19	Doi: 10.5815/ijieeb.2015.05.03
Shruti Jain, Jitendra Virmani	Sahil Bhusri	Classification of Breast Lesions based on Laws' Feature Extraction Techniques	10th INDIACom: 3rd 2016 International Conference on	March 16 <sup>th</sup> -18 <sup>th</sup> , 2016		pp 2523-2527	

			Computing for Sustainable Global Development, BVICAM, New Delhi.				
Shruti Jain, Jitendra Virmani	Shailja Rana	Classification of Kidney Lesions using Gabor Wavelet Texture Features	10th INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.	March 16 <sup>th</sup> -18 <sup>th</sup> , 2016		pp 2528-2532	
Shruti Jain, Jitendra Virmani	Sahil Bhusri	Breast Lesions Classification using the Amalagation of morphological and texture features	International Journal of Pharma and BioSciences	Apr-Jun 2016	7(2) B	617-624	
Shruti Jain	Paras Goyal, Sachin Arora, Dalchand Sharma	Design and Simulation of Gaussian Membership function	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2016	4(2)	pp 26-28:.	DOI: <a href="https://doi.org/10.17148/IJIREE/CE.2016.4208">10.17148/IJIREE/CE.2016.4208</a>
Shruti Jain	Akshay Kataria, Palak Kaistha	Utilization of Exhaust Heat from Automotive Using Thermopile	10th INDIACom: 3rd 2016 International	March 16 <sup>th</sup> -18 <sup>th</sup> , 2016		2484-2487	

			Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.				
Meenakshi Sood	Rahul Saxena, Tarunam Mahajan, Pragma Sharma,	BRAILLE HAND GLOVE - A Real time translation and communication device	10th INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.	March 16th - 18th, 2016			
Menakshi Sood	Arjun Chauhan, Basudha Dewan, Pushp Bajaj	Interactive module for dyslexic students	10th INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.	March 16th - 18th, 2016			

## 2014-15 ( 1 July 14 to 30 June 2015)

Name of faculty	Name of students	Title of the paper	Name of journal/ conference	Month, year	Vol(no)	Page no	Doi/url
Meenakshi Sood	Aditya Ahuja, Kamal Dewan, Nikita Gupta	Enhancing the competence of enterprise network using contemporary networking paradigms	Transactions on Networks and Communications	Oct (2014)	2 (5)	pp: 201-213	DOI: 10.14738/tnc.25.565 URL: <a href="http://dx.doi.org/10.14738/tnc.25.565">http://dx.doi.org/10.14738/tnc.25.565</a>
Shruti Jain	Aastha Afsar, Rohit Chauhan, Somya Verma	Energy Harvesting Using Thermoelectric Materials	International Journal of Advanced Information Science & Technology	Dec 2014	32(32)	28-37	<a href="http://ijaist.com/index.php/pub/item/108-energy-harvesting-using-thermoelectric-materials">http://ijaist.com/index.php/pub/item/108-energy-harvesting-using-thermoelectric-materials</a> DOI: 10.1563
Shruti Jain	Deepali Samtani, Naman Kumar Patel, Aditya Gupta	Design of Universal Gates Based on Reversible Logic'	International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS)	Dec 2014-Feb 2015	11(2)	174-178	



### 2013-14 ( 1 July 13 to 30 June 2014)

Name of faculty	Name of students	Title of the paper	Name of journal/ conference	Month, year	Vol (no)	Page no	DOI/ISBN
<b>Meenakshi Sood</b>	Aditya Ahuja, Nikita Gupta, Kamal Dewan	Deploying Pragmatic Techniques for Campus Network Design	Proceedings of SARC-IRF International Conference New Delhi, India	12th April-2014		36-41	ISBN: 978-93-84209-03-2.
	Amandeep Goyal, Naina Singh	Texture Based Classification for Face Recognition	Proceedings of 4 <sup>th</sup> SARC-IRF International Conference New Delhi, India	27 <sup>th</sup> April-2014		45-48	ISBN: 978-93-84209-08-7
Shruti Jain	Raman Gupta, Sandeep Singh, Kashish Garg	Indigenous Design of Electronic Circuit for Electrocardiograph	International Journal of Innovative Research in Science, Engineering and Technology	May 2014	3(5)	12138-12145	

### 2012-13 ( 1 July 12 to 30 June 2013)

Name of faculty	Name of students	Title of the paper	Name of journal/ conference	Month, year	Vol (no)	Page no	DOI/ISBN
Shruti Jain	Hemank Mehta, Naina	Effect of Current Feedback	International Journal of Advanced Research	April 2013	3(4)	1081-1087	

	Aggarwal, Kunal Dutt	Operational Amplifiers using BJT and CMOS	in Computer Science and Software Engineering				
Shruti Jain	Arpit Kuthiala, Abhimanyu Gupta, Ankur Aggarwal	Voltage feedback v/s Current feedback Operational Amplifier Using BJT and CMOS	International Journal of Advances in Computing and Information Technology	April 2013	2(2),	9-16	

**DEPATRMENT OF ELECTRONICS AND  
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**h-Index of Faculty**

<b>S.No</b>	<b>Name of Faculty</b>	<b>h-index</b>	<b>Citation</b>
1	Alok Kumar	4	26
2	Ashwani Sharma	8	228
3	Bhaskar	4	120
4	D.S Saini	11	428
5	Emjee P	2	9
6	Ghanshyam Singh	21	1823
7	Harsh Sohal	3	80
8	Jitender Virmani	13	557
9	Kaushlender pandey	1	5
10	M. Wajid	3	37
11	Meenakshi Sood	5	70
12	Mohit Garg	0	0
13	Munish Sood	2	18
14	Nafis uddin khan	5	62
15	Naveen Jaglan	3	35
16	Neeru Sharma	3	17
17	Nishant jain	2	6
18	Pradeep Chauhan	2	12
19	Pradeep Garg	1	5
20	Rajiv Kumar	2	6
21	S V Bhooshan	8	243
22	Samir Dev Gupta	6	102
23	Shruti Jain	7	202
24	Shweta Pandit	7	114
25	Salman Raju	1	6
26	Sujit Kumar Patel	3	102
27	Sunil Datt Sharma	3	34
28	T S Lamba	1	7
29	Tapan Jain	5	70
30	Vikas Baghel	6	93
	<b>Grand Total</b>		<b>150.5666667</b>

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
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<https://scholar.google.co.in/citations?user=ssl6ThoAAAAJ&hl=en&oi=ao>

<https://scholar.google.co.in/citations?user=dV19mvUAAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=16238169500>

<https://scholar.google.co.in/citations?user=bafrSFkAAAAJ&hl=en&oi=ao>

<https://scholar.google.co.in/citations?user=AIV68TgAAAAJ&hl=en&oi=ao>

<https://scholar.google.co.in/citations?user=YWZP3y0AAAAJ&hl=en&oi=ao>

<https://www.scopus.com/authid/detail.uri?authorId=56801526300>

<https://scholar.google.co.in/citations?user=0fPB7EcAAAAJ&hl=en&oi=sra>

<https://scholar.google.co.in/citations?user=a4FliCYAAAAJ&hl=en&oi=ao>

<https://www.scopus.com/authid/detail.uri?authorId=6602372521>

<https://scholar.google.co.in/citations?user=m43OxV4AAAAJ&hl=en&oi=sra>

<https://scholar.google.co.in/citations?user=Scogja0AAAAJ&hl=en&oi=ao>

**(I) Details as provided in the SAR previously**

Name of the faculty	Project Title	Project Type Research/Consultancy	Funding Agency	Amount	Duration	Remarks
<b>Dr.Ghanshyam Singh</b>	Design and Analysis of Frequency Selective Surface at Ka/Ku Band for	Research	Space Application Centre, ISRO, Ahmedabad	15.96 Lacs.	2011-2014	Completed
<b>Dr.Shruti Jain</b>	Fabrication of energy Harvesting Prototypes using Piezoelectric Materials	Research	DRDO	9.8 Lacs.	2012-2015	Completed

**(II) Details after evaluation (till the date of compliance report)**

Name of the faculty	Project Title	Project Type Research/Consultancy	Funding Agency	Amount	Duration	Remarks
<b>Dr. Ghanshyam Singh</b>	Mathematical Modeling of spectrum Sharing Techniques in cognitive radio networks.	Research	ISRO	11.10 Lacs	2015-2017	Sanctioned
	Analysis and Design of a Dielectric Rod Resonator Antenna Array at Terahertz Frequency.	Research	DRDO	16.90 Lacs		Under Review
<b>Dr. Rajiv Kumar</b>	Reliability Modeling and Optimized Planning of Risk-based Resilient Networks".	Research	DST Ministry of Sc and Tech Poland	9.04 Lacs	2015-2018	Sanctioned

<b>Dr Shruti Jain</b> <b>Dr. Meenakshi Sood</b>	Design and analysis of a thermoelectric generator for energy harvesting system from waste heat for the state of HIMACHAL PRADESH	Research	State council for Science, Technology & Env, H.P.	5.24 lacs	2017-19	Sanctioned
<b>Dr. Meenakshi Sood</b>	Identification of commercial crop diseases using image processing techniques & its environmental effects for the farmers of Himachal Pradesh with feedback system using IOT and android application	Research	Department of Environment, Science & Technology H.P	9.97 lacs	2017-19	Sanctioned

Date: 20/4/15

ORDER

Subject: Implementation of Indo-Polish joint Project entitled: "Reliability Modeling and Optimized Planning of Risk-based Resilient Networks." coordinated by **Prof. Rajiv Kumar**, Assistant Professor, Jaypee University of Information Technology, Department of Electronics and Communication Engineering, Wagnaghat, Solan-173234, Himachal Pradesh with his British counterpart **Piotr Cholda**, Assistant Professor, AGH University of Science and Technology Department of Telecommunications Al. Mickiewicza 30, 30-059 Krakow

Sanction of the President is hereby accorded for DST- Polish joint Project entitled: "Reliability Modeling and Optimized Planning of Risk-based Resilient Networks." under the MoU with Polish at a total cost of **Rs.9,04,000/- (Rupees nine lakh four thousand only)** for a period of two years as under:-

Item of Expenditure	Amount		
	First year	Second year	Total
<b>1. Mobility of scientists</b> (Two visits from each side each year) <ul style="list-style-type: none"><li>For visit of Indian scientists to Polish</li><li>For visit of Polish Scientists to India</li></ul> (as calculated below in para 7 below)	Rs 1,88,000	Rs 1,88,000	Rs 3,76,000
<b>2. Consumables</b>	Rs 1,44,000	Rs 1,44,000	Rs 2,88,000
<b>3. Contingency</b>	Rs 60,000	Rs 80,000	Rs 1,40,000
	Rs 50,000	Rs 50,000	Rs 100,000
<b>Year wise Cost</b>	Rs 4,42,000	Rs 4,62,000	
<b>Total cost</b>	<b>Rs.9,04,000/-</b>		

Sanction of the President is hereby accorded for release of 1<sup>st</sup> installment **Rs.4,42,000/- (Rupees four lakh forty two thousand only)** to Jaypee University of Information Technology, Department of Electronics and Communication Engineering, Wagnaghat, Solan-173234, Himachal Pradesh.

3. DDO DST shall draw an amount of **Rs.4,42,000/- (Rupees four lakh forty two thousand only)** from PAO DST and shall arrange to disburse the same by means of electronic transfer (E-transfer) in favour of the Vice Chancellor, Jaypee University of Information Technology, Department of Electronics and Communication Engineering, Wagnaghat, Solan-173234, Himachal Pradesh as details given below:-

Account Holders name/ designation	Jaypee University of Information Technology,
Name of Bank	Punjab National Bank,
Bank Branch	JUIT, Wagnaghat, Distt-Solan, HP-173234
Bank Account Number	0427032100000010
IFSC Code	PUNB0637100
MICR Code	171024077
E-Mail	rajiv.kumar@juit.ac.in

4. The expenditure involved is debitable to:-
- Demand No. 87-Department of Science and Technology
  - Major Head-3425 B-Other Scientific Research
  - 60 others - Minor Head 60.798 International Co-operation S&T Co-operation with other Countries
  - 12.00.31 Grants-in-aid during the current financial year 2015-16(PLAN).

5. The Project will be coordinated by **Prof. Rajiv Kumar**, Assistant Professor, Jaypee University of Information technology, Department of Electronics and Communication Engineering, Wagnaghat, Solan-173234, Himachal Pradesh with his Polish counterpart **Piotr Cholda**, Assistant Professor, AGH University of Science and Technology Department of Telecommunications Al. Mickiewicza 30, 30-059 Krakow and will be presumed to commence from the date of issue of this sanction.





6. **Prof. Rajiv Kumar**, Assistant Professor, Jaypee University of Information technology, Department of Electronics and Communication Engineering, Wahnaghat, Solan-173234, Himachal Pradesh is required to submit technical progress report periodically (at least once in six months) and a final report at the end of project.

7. As and when required, proposal for a visit under the project should be sent to DST at least six weeks prior to the initiation of the visit. The grant for exchange visit is to be operated subject to the condition that the prior approval of this Department would be obtained on all project related visits to be undertaken by the scientists from either side in connection with the implementation of the project on a case to case basis before any expenditure is incurred in this regard. Break up for proposed expenditure on each exchange visit will be calculated broadly as below:

a) Break up of expenditure on each visit of Indian Scientists visiting collaborative Institute is calculated broadly as below:

1) International Fare Sloan-Cracow-Solan By excursion/economy class (cheapest available fare)	Rs 80,000
2) Medical Insurance (Silver class)	Rs 4,000
3) Domestic Travel related to visit	Rs 2,000
4) Visa Fee (as per actuals)	Rs 8,000
Total:	Rs 94,000

b) Break up of expenditure on each visit of Polish scientists and project staff visiting the Indian collaborative Institute (for an average duration of two weeks):

a. Per diem@ Rs 2500 *14 days	Rs 35,000
b. Accommodation @ Rs 2500 *14 days	Rs 35,000
c. Local Transport	Rs 2,000
Total:	Rs 72,000

8. Local hospitality including cost for the stay of Indian scientists in Polish for the total duration is to be met by the receiving side as per the provision of MoU between Department of Science & Technology and Polish.

9. "The institute will maintain separate audited accounts for the project and the **amount of grant will be kept in a bank account earning interest**. The interest earned should be reported to DST while submitted the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant".

10. It must be ensured that the final statement of expenditure, utilization certificate and project completion report is submitted within one year after the scheduled dated of completion of the project.

11. As per MoF instructions, it has been decided that in all cases of air travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the officials may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferable be an alliance partner of Air India.

12. No re-appropriation will be allowed from one item/sub head of expenditure to another item sub head of expenditure and copies of claims may be called by DST if required. This sanction order has been issued in current financial year 2015-16 and is valid up to 31-03-16 only. For incurring any expenditure in next financial year (2016-17) PI should apply to DST for carry forward of unspent balance to 2016-17 during April 2016 for seeking carry forward approval/sanction order. **Indian Project coordinator should furnish the requisite utilization certificate immediately at the end of the each financial year (ending 31<sup>st</sup> March) along with the audited statement of expenditure and progress report.**

13. The account of the grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institution is called upon to do so, as laid down under Rule 211 (i) of General Financial Rules.

14. This issues under the power delegated to this Departments and with the concurrence of the Director IFD vide Dy No.C/130/IFD/2015-16 dated:08/04/2015.





15. This sanction order has been noted at Sl. No. 71 in Grant register.

16. No UC/SE is due from, Jaypee University of Information Technology, Department of Electronics and Communication Engineering, Waknaghat, Solan-173234, Himachal Pradesh against this project



(S.K.Varshney)  
Scientist "G"

To,

The Pay & Accounts Officer, Department of Science & Technology, New Delhi-110016

**Copy to:**

1. Principal Director of Audit, AGCR Bldg., IP Estate, New Delhi-110002
2. Cash Section (3 copies), DST
3. I.F. Division/Accounts Section, DST
4. Sanction Folder
5. **Prof. Rajiv Kumar**, Assistant Professor, Jaypee University of Information technology, Department of Electronics and Communication Engineering, Waknaghat, Solan-173234, Himachal Pradesh
6. **Vice Chancellor**, Jaypee University of Information Technology, Department of Electronics and Communication Engineering, Waknaghat, Solan-173234, Himachal Pradesh
7. **Finance Officer**, Jaypee University of Information Technology, Department of Electronics and Communication Engineering, Waknaghat, Solan-173234, Himachal Pradesh



(S.K.Varshney)  
Scientist "G"

No. Env. S&T (F)/ R&D Project/ 2017 <sup>4657</sup>  
**Department of Environment, Science & Technology**  
Paryavaran Bhawan, Near US Club, Shimla-171001

From: - **The Director -cum- Special Secretary (Env. S&T) to the Government of Himachal Pradesh, Shimla-1.**

To

✓ **Dr. Meenakshi Sood,**  
Assistant Professor (Senior Grade), Deptt. of ECE,  
Jaypee University of Information Technology, Wagnaghat,  
Solan, Himachal Pradesh, India.

Dated: Shimla-1. the <sup>7th</sup> 12 February, 2018.

**Subject: Research & Development Projects 2017-18 - PAEC Meeting reg.**

Madam,

This is in reference to the meeting held on 09.02.2018 at the Department of Environmet, Science & Technology, Shimla, Himachal Pradesh regarding the H.P. specific research and development projects. In this regard, it is to inform that your project titled "Identification of diseases of tomato using image processing techniques for the farmers of Himachal Pradesh with feedback system using IOT and Android application" with a total budget outlay of Rs. 9,96,750/- has been approved by the Project Approval and Evaluation Committee (PAEC) with certain additional conditions which have been specified in the minutes of meeting. The minutes of meeting are also enclosed herewith for you kind perusal.

You are requested to go through the conditions specified in the minutes. If the conditions are accepted, you may appear in the office of the Director, Department of Environmet, Science & Technology Paryavaran Bhawan, Near US Club, Shimla on dated: 27.02.2018 at 11:00 AM along with Rs. 100/- (Rs. One Hundred Only) Stamp Paper and three extra Judicial Paper for signing of MoU. It is requested that both PI and Co-PI may remain present during the MoU signing of the R&D project.

Yours sincerely,



**(D.C. Rana)**  
**Director**

Department of Environment, S&T  
Himachal Pradesh, Shimla-171001  
Phone No. 0177-2656559  
(dc.rana04@nic.in)

**Encl:** As above.





**H.P. Council for Science, Technology & Environment (HIMCOSTE), Shimla**

**B-34, SDA Complex, Kasumpti, Shimla – 171009**

Phone: 0177-2620998, 2621992 Fax: 0177-2620998

Website: www.hpscste.gov.in & Email: stc-hp@nic.in

SCSTE/F(8)-1/2017 5085-5086 (2 No)

Dated: 28/12/17

To

**Dr. Shruti Jain**

Assistant Professor

Department of Electronics and Communication

Jaypee University of Information Technology, Waknaghat,

Distt Solan, H.P-173234

**Subject: Sanction Order for HP Specific Research & Development Projects 2017-18**

Sir/Madam,

HIMCOSTE is pleased to inform you that your Project Proposal "Design and analysis of a Thermoelectric Generator for Energy Harvesting System from Waste Heat for the State of Himachal Pradesh" has been approved for financial support.

Please find enclosed herewith the **Sanction Order** for the project proposal submitted by you to HIMCOSTE Shimla. Kindly send your consent and acknowledge the receipt through hard copy & email at [aparnansarin@yahoo.com](mailto:aparnansarin@yahoo.com) and [kaulmanoj7@yahoo.com](mailto:kaulmanoj7@yahoo.com) immediately.

Thanking you

Yours sincerely

(Kunal Satyarthi, IFS)

**Joint Member Secretary**

HIMCOSTE, Shimla (H.P.)

Endst No.- SCSTE/F(8)-1/2017

**Copy for information to:**

**The Vice Chancellor, Jaypee University of Information Technology, Waknaghat, Distt. Solan, H.P-173234.**

Dated:

(Kunal Satyarthi, IFS)

**Joint Member Secretary**

HIMCOSTE, Shimla (H.P.)





## H.P. Council for Science, Technology & Environment (HIMCOSTE), Shimla

B-34, SDA Complex, Kasumpti, Shimla – 171009

Phone: 0177-2620998, 2621992 Fax: 0177-2620998

Website: www.hpscste.gov.in & Email: stc-hp@nic.in

SCSTE/F(8)-1/2017 5085-86

Dated: - 29/12/17

### SANCTION ORDER

**Subject:** Financial Sanction of the research project titled "Design and analysis of a Thermoelectric Generator for Energy Harvesting System from Waste Heat for the State of Himachal Pradesh"-Reg.

**Principal Investigator (PI):**

Dr. Shruti Jain(PI)

Jaypee University of Information Technology,

Waknaghat, Distt Solan

H.P-173234

**Co-PI:**

1. Dr. Meenakshi Sood

Sanction of the H.P. Council for Science, Technology & Environment (HIMCOSTE) is hereby accorded to the above mentioned project at a total cost of Rs. 5,24,000/- (Rupees Five Lakhs Twenty Four Thousand only) for a duration of two years from the date of sanction. The items of expenditure for which the total allocation of Rs. 5,24,000/- has been approved for a period of two years, are given below:

S.No.	Head	First Year (in Rs.)	Total (in Rs.)-2 Yrs.
1.	Remuneration (Rs.) 1 Project Associate@Rs.15000/-PM	1,80,000/-	3,60,000/-
2.	Consumables	50,000/-	1,00,000/-
3.	Travel	20,000/-	40,000/-
4.	Other Costs	12,000/-	24,000/-
<b>Total Cost</b>		<b>2,62,000/-</b>	<b>5,24,000/-</b>

#### NOTE:

- (a) If the Institute/ Organisation or/and Principal Investigator(PI) agrees to execute the project as per the budget mentioned above and according to terms and conditions stated below, kindly send three (3) copies of the final project proposal duly filled up; signed & stamped and approved by the Head of the Institution/ organisation to the HIMCOSTE within 15 days from today positively.



(b) You are also requested to send Bank Account Details, IFSC/RTGS Code & emails of Head of the institution or the DDO/Accounts Officer and of Principal Investigator through details as provided below wherever the grant is to be transferred:-

Particulars	Head of the Institution	DDO/Account Officer	Principal Investigator (PI)
Account Name			
Account Number			
Bank Name & Branch			
IFSC/RTGS Code			

(c) **Scheduled Caste Areas:**

- (i) Research & Development Project would be implemented in Scheduled Caste concentration areas which should wholly or partially benefit the SC families.
- (ii) Either the villages having 40% or more SC population or villages having 90 SC persons or more are to be selected. Identification of most appropriate villages have to be carved out of the latest Census data (2011-CENSUS by Directorate of SCs/OBCs & Minority Affairs, H.P.) published District/ Tehsil wise.
- (iii) Work Area would be the following villages/ panchayats under the Vigyan Gram scheme of HIMCOSTE:

Sr. No.	Name of the District	Name of the Panchayat	Name of the Block
1.	Shimla	Piplidhar (Bainsh)	Basantpur
2.	Sirmour	Matal Bakhog	Rajgarh

The grant will be regulated in accordance with the provisions contained in the guidelines, terms & conditions for 'HP Specific Research & Development Projects 2017-18' and other related instructions of the HIMCOSTE. The Grant is also subject to the HP General Financial Rules, as amended from time to time and in particular to the following conditions after sanctioning of the project as under:

*AHP*

**Terms & Conditions of the Grant**

1. The expenditure involved is debit able to  
Fund for 'HP Specific Research & Development Projects 2017-18'  
This release is being made under the specific category:



(a) SCSP Scheme

2. The Sanction has been issued with the approval of the competent authority under delegated powers and vide diary no. SCSTE/ F(8)-1/2017, dated 28/12/17 for a total cost of Rs. 5,24,000/-.
3. Sanction of the grant is subject to the conditions as contained in the Guidelines & Terms & Conditions as available at website ([www.hpscste.gov.in](http://www.hpscste.gov.in)) and also stated in this Sanction Order.
4. The amount of Rs.5,24,000/- will be drawn by the Assistant Controller/AC(F&A) of the HIMCOSTE and will be disbursed by means of RTGS transaction as per the Bank details to be provided by the Principal Investigator in two equal instalments subject to certain conditions.
5. While providing operational flexibility among various subheads, it should be ensured that not more than the approved specified amount sub head/ item wise should be spent at any time.
6. The entire project cost will be funded by HIMCOSTE, Shimla and the funds for execution of the project will be released in TWO equal instalments. 50% advance payment after allotment of project and providing of revised proposals, bank account details etc. and the remaining 50% after submission of Utilization Certificate for the first instalment and project deliverables and based on progress of the work to be reviewed by the Project Evaluation Committee (PEC).
7. The money would not be diverted for any other purpose under any circumstance; even for temporary periods.
8. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and HIMCOSTE Shimla will have no liability to meet the budget etc. beyond the duration of the project.
9. Payment towards wages/remuneration as well as other contractual obligations shall be made through bank accounts of recipients and strictly as per Govt. norms; notifications etc.
10. The Institute/Organisation should submit evidence of deposit of TDS/Service Tax and copy of PF and ESI contributions of employees in case of contract payments and CST in case of purchase of leviable goods.
11. The accounts of the project shall be open to inspection by sanctioning authority/ audit whenever the institute/organisation is called upon to do so.
12. The institute/organisation will furnish to the HIMCOSTE Shimla, Utilization Certificate and an audited statement of accounts pertaining to the grant immediately after the end of one year/ after mid/half of the project duration but not later than 31<sup>st</sup> January, 2019 and for 2<sup>nd</sup> instalment before 31<sup>st</sup> January 2020.
13. The institute/organisation will maintain separate audited accounts for the project. It is expedient to keep a part or whole of grant in a bank account earning interest. The interest earned should be reported to the HIMCOSTE Shimla. The interest thus earned



will be treated as a credit to the institute to be adjusted towards further instalment of the grant.

14. As this is the first grant being released for the project, no previous UC is required.
15. The Institute/organisation is advised to adopt research ethics and corruption mitigation strategies while utilizing the funds.
16. The expenditure should not exceed beyond the approved allocation of funds under any circumstances.
17. The financial support provided by HIMCOSTE Shimla should be duly acknowledged at all the forums, publications and proceedings whenever the research project is published or presented. The PI will place and highlight the role of HIMCOSTE Shimla in each major activity/ programme (Logo, Pamphlets, Equipments in laboratories, Display in Field work etc.) under this project besides mentioning the grants received by HIMCOSTE, Shimla.
18. Assets acquired wholly or substantially through grants shall not be disposed off with out obtaining prior approval of State Council.
19. Periodic review and inspection of the project will be done by HIMCOSTE Shimla team and PI should intimate the Council beforehand about their important milestones activities proposed especially the field activities viz. trainings, site visit etc. in advance. In addition, the HIMCOSTE Shimla may designate Scientist/Specialist or an expert panel to visit the institute/organisation periodically to review the progress of the work being carried out and to suggest suitable measures to ensure realisation of the objectives of the project. During the implementation of the project the institute will provide all facilities to the visiting Scientist/specialist or the expert panel by way of travel, accommodation etc. at the time of their visit.
20. Patents, trademarks, copyrights etc. of any nature should acknowledge financial approval of HIMCOSTE Shimla. Technology; equipment; protocols; or innovations tool developed; if any would be in joint ownership of HIMCOSTE Shimla and the PI or/and the institute/organisation.
21. Commercialisation of technology OR transfer of technology or process of production would be done in association with/under intimation to and after obtaining prior approval of HIMCOSTE Shimla.
22. The HIMCOSTE Shimla reserves the right to terminate the project at any stage if it is convinced that the grant has not been properly utilised or appropriate progress is not being made.
23. If the PI to whom a grant for a project has been sanctioned wishes to leave the Institution where the project is based, the Institute/ PI will inform the same to the HIMCOSTE Shimla and the CO-PI will ensure successful completion of the project, before relieving the PI.
24. For permanent, semi-permanent assets acquired solely or mainly out of the project grants, an audited record in the form of a register in the prescribed format shall be

*Handwritten signature/initials*



maintained by the Institute. The term "Assets" include (a) the immovable property acquired out of the grant; and (b) movable property of capital nature where the value exceeds Rs 10,000/-. The Institute is required to send to the HIMCOSTE Shimla a list of assets acquired from the grant. The grant shall not be utilised for construction of any building unless specific provision is made for that purpose. Full infrastructural facilities by way of accommodation, water, electricity, communication etc. for smooth implementation of the project shall be given by the Institute.

25. Any un-spent balance out of the amount sanctioned must be surrendered to the HIMCOSTE Shimla through a crossed Cheque/ Demand Draft drawn in favour of Drawing & Disbursing Officer, HIMCOSTE Shimla.
26. The project would become operational from the date of receiving funds by the Institution.

o/c

*[Handwritten Signature]*

**Kunal Satyarthi, IFS**  
Joint Member Secretary  
HIMCOSTE Shimla

**Copy forwarded for information and necessary action to:**

1. Head of the organisation/institute.
2. Principal Investigator
3. AC (F&A) HIMCOSTE Shimla.
4. Accounts Sanction, HIMCOSTE Shimla.
5. R&D Section.

o/c

*[Handwritten Signature]*  
7/22/14

**Kunal Satyarthi, IFS**  
Joint Member Secretary  
HIMCOSTE Shimla



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING****List of PhD. Produced**

<b>S.No.</b>	<b>Thesis Title</b>	<b>Research Scholar</b>	<b>Date</b>
1	Peak To Average Power Ratio Reduction In Orthogonal Frequency Division Multiplexed Systems	Alok Joshi	13.Dez.14
2	Medium Access Control Protocol For Spectrum Sharing In Cognitive Radio Communication System	Shweta Pandit	21.Dez.15
3	Analysis And Design Of Frequency Selective Surface For Transmission In S-Band Reflection In Ku-Ka Band For Satellite Communication	Garima Bharti	28.Dez.15
4	Analysis And Classification Of Eeg Signals For Detection Of Epileptic Seizures	Meenakshi Sood	16-Feb-16
5	Lifetime Optimization Of A Single And Multiple Sinks Wireless Sensor Network Ensuring Maximum Coverage And Connectivity	Tapan Kumar Jain	16.Mär.16
6	New Techniques For Multi-Exposure Image Fusion Based On Known Edge Preserving Filters	Harbinder Singh	01.Sep.16
7	Energy Harvesting Using Piezoelectric Elements To Power Microelectronic Devices	Ritendra Rajkumar Mishra	21.Jän.17
8	Analysis Of Transmission Line Models With Non-Linear Elements For Opposite Phase And Group Velocities	Salman Raju Talluri	01.Apr.17
9	Analysis Of Mimo System Over A Composite Fading Channel	Keerti Tiwari	24.Nov.17

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**List of Current PhD Scholars**

<b>S.No</b>	<b>Enrollment No.</b>	<b>Name of Candidate</b>	<b>Date of Joining</b>
1	126002	Isha Malhotra	July'12
2	146001	Pallvi Chawla	July'14
3	156001	Alok Kumar	Jan'16
4	156002	Prabhat Thakur	Jan'16
5	166001	Ashutosh Sharma	July'16
6	166002	Pradeep Garg	Sep'16
7	166004	Jyotsna Dogra	Jan'17
8	166005	Navdeep Prashar	Jan'17
9	176005	Charu Bhardwaj	July'17
10	176002	Dinesh Kumar	July'17
11	176006	Kirti	July'17
12	176004	Neelam Kumari	July'17
13	176008	Urvashi	July'17
14	176001	Ekta Thakur	July'17
15	176009	Dinesh Kumar	July'17