


# CCS UNIVERSITY, MEERUT

## FACULTY PROFILE

Name	Dr. Anil Kumar Yadav				
Qualifications	NET, Ph.D.				
Designation	Assistant Professor				
Department	Physics				
Address (campus)	Department of Physics, CCS University Meerut-250004				
(residential)	-----				
Contact no.	<b>Office</b>	<b>University extension</b>	<b>residence</b>	<b>Mobile</b>	
	<b>2192</b>	--	--	<b>9627330381</b>	
Fax	-----				
E-mail	<a href="mailto:anilsaciitb@gmail.com">anilsaciitb@gmail.com</a>				
Webpage	-----				

### Educational Qualification

Degree	Institution / University	Year	Subject
Ph.D.	Indian Institute of Technology Bombay	2008-2014	Title of thesis "Superconductivity in some FeSe based superconductors"
M. Sc	University of Allahabad, Allahabad	2004	Physics
B.Sc	University of Allahabad, Allahabad	2002	Physics, Electronics
Research Interests/Specialization		Superconductor/Topological Insulator/Nano-composites/Solar cell	

### Career /Research Experience Profile

Organization	Designation	Duration	Nature of work
Post Doc	Indian Institute of Science, Bangalore	September 2014- March 2015	Growth and Characterization of Topological Insulators
Space Application Centre, ISRO Ahmedabad	Junior Research Fellow	August 2006 – July 2008	Involved for Research and Development in following projects:
			LISS-4 Camera (Resourcesat-2 Project)
			MIP Camera (Chandrayaan-1 Project)
			Wind Tunnel Project

### Teaching Experience

Three months

Research Supervision (Year wise)	Year	Awarded	Submitted	Working
Ph.D.	---			
M. Phil	2015	-	-	Three

### Publications in Indexed / Peer Reviewed Journals

Sl. No.	Year	Title	Journal	Vol.	Page No.	Authors	* Impact Factor
1	2015	Growth and angular dependent resistivity of Nb <sub>2</sub> Pd <sub>0.73</sub> S <sub>5.7</sub> in superconducting single crystal fibers	Material Chemistry and Physics	-	Under Review	<b>Anil K. Yadav,</b> Himanshu Sharma, Ajay D. Thakur, C. V. Tomy	2.129
2	2015	Improvement of superconducting properties	Solid State Communica	206	26-30	<b>Anil K. Yadav,</b> Anup V. Sanchela, Ajay D.	1.698

		in Fe <sub>1+x</sub> Se <sub>0.5</sub> Te <sub>0.5</sub> superconductor by Cr-substitution	tion			Thakur, C. V. Tomy	
3.	2015	Effect of nominal substitution of transition metals for excess Fe in Fe <sub>1+x</sub> Se superconductor	Solid State Communication	202	8-13	<b>Anil K. Yadav</b> , Anup V. Sanchela Ajay D. Thakur, C. V. Tomy	1.698
4	2014	Electrical Transport properties of polycrystalline CVD grapheme on SiO <sub>2</sub> /Si Substrate	Diamond & Related Materials	45	28-33	Anita Kumari, Neetu Prasad, P.K. Bhatnagar, P.C. Mathur, <b>Anil K. Yadav</b> , C.V. Tomy, C.S. Bhatia	1.762
5	2013	Growth, Characterization, Vortex pinning and Vortex Flow of Single Crystals of Iron Chalcogenide FeCr <sub>0.02</sub> Se	Physical Review B	87	174524-9	<b>Anil K. Yadav</b> , Ajay D. Thakur, C. V. Tomy	3.772
6	2011	Magnetization hysteresis and time decay measurements in FeSe <sub>0.5</sub> Te <sub>0.5</sub> : Evidence for fluctuation in mean free path induced pinning	Physical Review B	84	214526-8	P. Das, Ajay D. Thakur, <b>Anil K. Yadav</b> , C. V. Tomy, M. R. Lees, G. Balakrishnan, S. Ramakrishnan, A. K. Grover	3.772
7	2011	Enhanced superconducting properties in FeCr <sub>x</sub> Se	Solid State Communication	151	557-560	<b>Anil K. Yadav</b> , Ajay D. Thakur, C. V. Tomy	1.698

<b>Publication in Conference Proceeding</b>							
Sl. No.	Year	Theme of Conference	Venue	Title of Publication	ISBN	Page No.	Authors
1	2015	Solid State Physics Symposium	VIT, Bellure, Tamilnadu India	Anisotropic Superconducting Properties of FeSe <sub>0.5</sub> Te <sub>0.5</sub> Single crystals	0094-243X	130023-3	<b>Anil K. Yadav</b> , Varun K. Kushwaha, C. V. Tomy
2	2013	Spintronics Materials: Nanostructures and Devices (SMND)	Kongo Engineering College, Erode, Tamilnadu, India	Effect of off-stoichiometry at the Fe-site in FeSe <sub>0.5</sub> Te <sub>0.5</sub> superconductor	1875-3892	109-117	<b>Anil K. Yadav</b> , Ajay D. Thakur, C. V. Tomy
3	2013	Solid State Physics Symposium	IIT Bombay, Mumbai	Vortex Pinning Mechanism in Single Crystal of Iron Arsenide Superconductor SrFe <sub>1.7</sub> Co <sub>0.3</sub> As <sub>2</sub>	0094-234X	1174-2	Ajay D. Thakur, <b>Anil K. Yadav</b> , A. Thamizhavel, C. V. Tomy, S. Ramakrishnan and A. K. Grover
4	2013	Solid State Physics Symposium	IIT Bombay, Mumbai	Single Crystals of Iron Chalcogenide Superconductor FeCr <sub>0.02</sub> Se: Growth, Characterization and Vortex Pinning Properties	0094-234X	1158-2	<b>Anil K. Yadav</b> , Ajay D. Thakur, C. V. Tomy

5	2012	Solid State Physics Symposium	SRM University Chennai	Pinning Mechanism in Iron Chalcogenide Superconductor $\text{FeSe}_{0.5}\text{Te}_{0.5}$	0094-234X	897-898	Ajay D. Thakur, <b>Anil K. Yadav</b> and C. V. Tomy
6	2012	Solid State Physics Symposium	SRM University Chennai	Role of excess Cr at Fe site in $\text{FeCr}_x\text{Se}$ and $\text{FeCrSe}_{0.5}\text{Te}_{0.5}$	0094-234X	902-903	<b>Anil K. Yadav</b> , Ajay D. Thakur, C. V. Tomy
7	2009	Solid State Physics Symposium	MS University Baroda, Vadodara Gujarat, India	Observation of the Fishtail Effect and magnetic relaxation measurements in a Single Crystal of the superconductor $\text{FeSe}_{0.5}\text{Te}_{0.5}$	978-81-8372-054-0	819-820	<b>Anil K. Yadav</b> , C.V. Tomy, G. Balakrishnan, S. Ramakrishnan and A.K. Grover

### Books/Monographs

Sl. No.	Year	Title/Sub Title	Publisher	Place of Publication	Type of Book	Authors
1	2008	Development of large size Schlieren Imaging System (Prototype model) for Hypersonic wind tunnel project (HWTP)	SAC/SEDA/H WTP/14/07/20 08/30	Space Application Centre, ISRO, Ahmedabad	Monograph	Pradeep Kumar, <b>Anil K. Yadav</b>
2	2007	Interferometry Aided Alignment & MTF Measurement of LISS-4 (Resourcesat-2) Three Mirror Bench Telescope	SAC/EOSG/OS D/10/1/2007/03	Space Application Centre, ISRO, Ahmedabad	Monograph	Pradeep Kumar, M.P. Trivedi, <b>Anil K. Yadav</b>

### \* Symposium / Seminar / Conference / Workshop (Presentation)

Sl. No.	Theme of Conference	Co-author	National/International	Venue	Time/Duration	Title
1	Solid State Physics	<b>Anil K. Yadav</b> , Varun K. Kushwaha and C. V. Tomy	National	VIT, Bellure, Tamilnadu India	December 16-20 2014	59 <sup>th</sup> DAE, Solid State Physics Symposium
2	Strongly Correlated Electron Systems	<b>Anil K. Yadav</b> , Ajay D. Thakur and C. V. Tomy	International	University of Tokyo, Tokyo Japan	August 5-9, 2013	International Conference on Strongly Correlated Electron Systems (SCES-2013)
3	Solid State Physics	<b>Anil K. Yadav</b> , Ajay D. Thakur and C. V. Tomy	National	IIT Bombay, Mumbai India	December 3-7, 2012	57 <sup>th</sup> DAE, Solid State Physics Symposium
4	Material and Mechanism of Superconductivity	<b>Anil K. Yadav</b> , Ajay D. Thakur and C. V. Tomy	International	Omni Shoreham Hotel, Washington D.C USA	July 29- August 3, 2012	Material and Mechanism of Superconductivity Conference (M2S)
5	Condensed Matter and Material Physics	<b>Anil K. Yadav</b> , Ajay D. Thakur and C. V. Tomy	National	Advance Material and its Applications	March 3-5, 2012	3 <sup>rd</sup> National Conference on Condensed Matter and Material Physics (CMMP)
6		<b>Anil K. Yadav</b> , Ajay D. Thakur and C. V. Tomy	International	Kalasalingam University, Tamil nadu	March 4-5, 2011	Interanational Conference on Advance Material and its Applications (ICAMA-2011)
7	Spintronics Materials	<b>Anil K. Yadav</b> , Ajay D. Thakur,	National	Kongo Engineering College, Erode,	March 3-4, 2011	Spintronics Materials:

		C. V. Tomy		Tamilnadu, India		Nanostructures and Devices (SMND)
8	Magnetic Materials	<u>Anil K. Yadav</u> , Ravi Prakash, C.V.Tomy	International	SINP, Kolkata, India	October 25-29, 2010	International Conference on Magnetic Materials (ICMM-2010)
9	Solid State Physics Symposium	Pradip Das, <u>Anil K. Yadav</u> , C.V.Tomy, G. Balakrishnan, S. Ramkrishnan, A.K. Grover	National	MS University Baroda, Vadodara Gujarat, India	December 14-18, 2009	54 <sup>th</sup> DAE, Solid State Physics Symposium

**\* Symposium / Seminar / Conference / Workshop / Summer School/Orientation Course/ Refresher Course Attended**

Sl. No.	Theme	Venue	Duration/Time	National/International
1	Workshop on Cryogenic Facility Management	TIFR Mumbai	7-11 January, 2014	National
2	Pulse Laser Deposition: Thin films and Nanostructure	IIT Madras	December 2-4, 2009	National
3	Workshop on Photonics	IIT Bombay	26-30 August, 2008	National

**\* Symposium / Seminar / Conference / Workshop / Summer School Orientation Course /Refresher Course Organized**

Sl. No.	Theme	Venue	Duration/Time	National/International
	----			

**Professional Association**

Sl. No.	Name of Association/Society	Type of Membership
1	-----	

**Projects (Major / Minor)**

Title/ Subject of Research Project	Major / Minor	Period	Total Grant/Funds Received(Rs.)	Name of Sponsoring/Funding Agency	Outcome of the Project	Co-PI
FIST Level-1	Major	2010-2015	190.0 Lakhs	DST GoI	On Progress	-

**Honors / Awards/Fellowship**

Sl. No.	Year	Other Details
1	Sep 2014 March 2015	UGC-Dr. D.S. Kothari Fellowship for Post Doc at IISc Bangalore
2	Feb to July 2014	RA Fellowship from IRCC IIT Bombay
3	August 2013	IIT Bombay travel grant support to attend the conference at Tokiyo, Japan
4	August 2012	DST travel grant award for attending conference at Washington, USA
5	June 2010- July 2013	CSIR-SRF Fellowship to continue PhD
6	July 2008- June 2010	CSIR-JRF Fellowship to pursue PhD
7	September 2006- June 2008	DST Fellowship to work as JRF at SAC, ISRO Ahmedabad

**Any Other Relevant Information**

--		
----	--	--