

1. Details of the Teacher/ Academic :

Name & Date of Birth :	Dr. SANJAY AGRAWAL July 01, 1976
Date of Joining in IGNOU:	December 21, 2011
Current Designation :	Associate Professor in Electrical Engineering
Pay Scale as on date :	13A
Qualifications :	PhD(IIT Delhi), M Tech (Dr. APJAKTU Lucknow), BE (MMMUT, Gorakhpur), PGDDE (IGNOU)

2. Honour/Award/Fellowship/membership of Professional body/ Statutory body (internal/ external) received by the Teacher/ Academic:

Name of the recipient,	Honour /Award/ Fellowship name	Agency name /Name of statutory body/ institution/ Apex body	Period
Dr.Sanjay Agrawal	Bhaskara Advanced Solar Energy fellowship award	DST and Indo US science and technology forum (IUSSTF). Working place: Smart Grid Energy Research Centre, UCLA, Los Angeles, CA,USA	03 Month
Dr.Sanjay Agrawal	Life Member	Institution of Engineers (India)	
Dr.Sanjay Agrawal	Member	IEEE	

3. Books/Book Chapter:

- Co-author/co-editor if any, title, place of publication, publisher, Year, page (no) s, ISBN N

SNo.	Name of Author1/ Editor 1, & Co-author (s) / Co-editor (s) (if any)	Title of chapter/book	Place of publication	Publisher	Year	Total Pages	ISBN No.
1	Sanjay Agrawal (author)	Comparative Analysis of Hybrid Photovoltaic Thermal Air Collectors:	Saarbrucken , Germany	LAP LAMBERT Academic Publishing:GmbH & co.KG,	June 14, 2012	180	ISBN-13: 978-3659154478.

		Design, modeling and Experiment to improve the overall efficiency of PV system		Heinrich-Bocking-str 6-8, 66121, Saarbrucken, Germany (June 14, 2012),			
2	G.N. Tiwari, R.K. Mishra, C.S. Rajoria, Sanjay Agrawal (Co editor)	Proceeding of International Conference on Energy Security, Global warming and Sustainable Climate, SOLARIS-2012	India	I.K. International publishing House Pvt . Ltd, New Delhi	2012	740	ISBN: 978-93-8232-03-9
3.	Sonveer Singh, Sanjay Agrawal (co-author)	Analog and Digital Electronics	India	I.K. International publishing House Pvt . Ltd, New Delhi	2019	620	ISBN 978-93-86768-57-5

4. Research Articles/Publications:

SN o.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	Sanjay Agrawal and G.N. Tiwari	Energy and exergy analysis of hybrid micro-channel photovoltaic thermal module	Solar Energy, Elsevier	85	356-370	2011	ISSN: 0038-092X
2.	Sanjay Agrawal and G.N. Tiwari	Performance evaluation of hybrid modified micro-channel solar cell thermal tile: an experimental validation	International Journal of Engineering, Science and Technology (IJEST)	83	244-254	2011	2141-2839
3.	Sanjay Agrawal and Arvind	Experimental validation of glazed hybrid micro-channel solar cell thermal tile	Solar Energy, Elsevier	85	304-305	2011	0038-092X

	Tiwari						
4.	Sanjay Agrawal, C.S. Rajoria and G.N. Tiwari	Overall thermal energy and exergy analysis of hybrid photovoltaic thermal array	Solar Energy, Elsevier,	86	153 1- 153 8	201 2	037 8- 778 8
5.	Sanjay Agrawal, G.N Tiwari and H.D. Pandey	Indoor experimental Analysis of glazed hybrid photovoltaic thermal tiles air collector connected in series	Energy and Building	53	145- 151	201 2	037 8- 778 8
6.	Sanjay Agrawal and G. N. Tiwari	Exergoeconomic analysis of glazed hybrid photovoltaic thermal module air collector	Solar Energy, Elsevier,	86	282 8- 283 8	201 2	003 8- 092 X
7.	Sanjay Agrawal and G.N.Tiwa ri	Overall energy, exergy and carbon credit earned by different type of hybrid photovoltaic thermal air collectors	Energy Conversion and Management, Elsevier	65	628- 636	201 3	ISS N: 019 6- 890 4
8.	C.S. Rajoria, Sanjay Agrawal and G.N.Tiwa ri	Exergetic and enviroeconomic analysis of novel hybrid PVT array	Solar Energy, Elsevier,	88	110- 119	201 3	003 8- 092 X
9.	Sanjay Agrawal, and G. N. Tiwari	Enviroeconomic analysis and energy matrices of glazed hybrid photovoltaic thermal module air collector	Solar Energy, Elsevier,	92	139- 146	201 3	003 8- 092 X
10.	Sonveer Singh, Sanjay Agrawal, Arvind. Tiwari, I.M. Al- Helat, D.V.Awas thi	Modeling and Parameter Optimization of Hybrid Single Channel Photovoltaic Thermal Module Using Genetic Algorithms”,	Solar Energy, Elsevier,	113	78- 87	201 5	003 8- 092 X
11.	Sanjay Agrawal, and G. N. Tiwari	Performance analysis in terms of carbon credit earned on annualized uniform cost of glazed hybrid photovoltaic	Solar Energy, Elsevier,	115	329- 340	201 5	003 8- 092 X

		thermal air collector”,					
12.	Sonveer Singh, Sanjay Agrawal , G.N.Tiwari and Deeipka Chauhan	Application of Genetic Algorithm with Multi-objective Function to Improve the Efficiency of Photovoltaic Thermal System”	Solar Energy, Elsevier,	117	153-166	2015	0038-092X
13.	Sonveer Singh, Sanjay Agrawal , Rajit Gadh	Optimization of SCGPVT Array Using Evolutionary Algorithm (EA) and Carbon Credit Earned by the Optimized Array”	Energy Conversion and Management, Elsevier	10	303-312	2015	0196-8904
14.	Sonveer Singh, Sanjay Agrawal ,	Parameter Identification of the glazed photovoltaic thermal system using Genetic Algorithm-Fuzzy System (GA-FS) approach and its comparative study	Energy Conversion and Management, Elsevier	105	763-771	2015	0196-8904
15.	C.S. Rajoria, Sanjay Agrawal and G.N.Tiwari	Exergetic and enviroeconomic comparison of PVT arrays based on optimum air flow configuration,	Solar Energy, Elsevier,	122	1138-1145	2015	0038-092X
16.	C.S. Rajoria, Sanjay Agrawal , Amit K. Dash, G.N. Tiwari, M.S. Sodha	A newer approach on cash flow diagram to investigate the effect of energy payback time and earned carbon credits on life cycle cost of different photovoltaic thermal array systems”	Solar Energy, Elsevier,	124	254-267	2016	0038-092X
17.	Sonveer Singh, Sanjay Agrawal	Design, Modeling and Performance Analysis of Dual Channel Semitransparent Photovoltaic Thermal Hybrid Module in the cold environment	Energy Conversion and Management, Elsevier	114	241-250	2016	0196-8904
18.	C.S. Rajoria, Sanjay Agrawal ,	A Novel investigation of Building Integrated Photovoltaic Thermal (BiPVT) System: a Comparative	Solar Energy, Elsevier,	131	107-118	2016	0038-092X

	Subhash Chandra, G.N. Tiwari, D.S. Chauhan	Study					
19.	Sonveer Singh, Sanjay Agrawal	Efficiency maximization and Performance Evaluation of Hybrid Dual Channel Semitransparent Photovoltaic Thermal Module using Fuzzyfied Genetic Algorithm”,	Energy Conversion and Management, Elsevier	122	449-461	2016	0196-8904
20.	G.S. Chaurasia, Sanjay Agrawal , N. K. Sharma	“A meta-heuristic firefly algorithm based smart control strategy and analysis of a grid connected hybrid photovoltaic/ wind Distributed Generation System”	Solar Energy, Elsevier,	150	265-274	2017	0038-092X
21.	Sumit Sharma, Sanjay Agrawal , G.N. Tiwari	PVT air collector integrated Greenhouse Dryers: A Review	Renewable & Sustainable Energy Reviews, Elsevier	90	142-159	2018	1364-0321
22.	Subhash Chnadra, Sanjay Agrawal , D S Chauhan	Soft computing based approach to evaluate the performance of solar PV module considering wind effect in laboratory condition”	Energy Reports, Elsevier	4	252-259	2018	2352-4847
23.	Subhash Chnadra, Sanjay Agrawal , D S Chauhan	“Effect of Ambient Temperature and Wind Speed on Performance Ratio of Polycrystalline Solar Photovoltaic Module: an Experimental Analysis”	International Energy Journal, RERIC, AIT	2	171-180	2018	1513-718X
24.	Sourav Diwania, Sanjay Agrawal , Anwar S Siddiqui	Performance enhancement of single-channel glazed photovoltaic thermal module using Whale Optimisation Algorithm and its comparative study	International Journal of Ambient Energy, Taylor & Francis	1	1-11	2018	0143-0750

5. Policy Documents Reports/ Mimeos:

SNo.	Title	Institution/ Agency	Year

6. Book Review published :

SNo.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No

7. Presentation/Invited talk/Chair in National or International Seminar/Conference/ Workshops (Please do not mention if it is only participation without presentation)
a) Invited Talk

SNo.	Author/ Co author (if any)	Title of course, /workshop/conference	Name Organizing institute	Conference	City	Date and Year
1		Photovoltaic thermal application	IIT Delhi	QIP Short Term Course	Delhi	December 03, 2011
2		Emerging Trends in Renewable Energy Technology	Uttam Devi Mohan Lal College of Engineering	National Conference	Jaipur	April 21-22, 2012
3		Application of renewable energy sources	IIT Delhi	QIP Short Term Course	Delhi	December 11, 2013
4		Renewable in Science and Engineering	NIT Silchar	Short Term Course	Silchar	January 11, 2013
5		Hybrid photovoltaic technologies	MITS Gwalior	Short Term Course	Gwalior	January 16, 2014
6		Recent Advance in Electronics and Communication Engineering	ITS, Greater Noida	National conference	Greater Noida	March 28, 2014
7		The Role of Engineers as Entrepreneurs in Current Scenario	SIET, SVSU, Meerut	International conference	Meerut	June 28, 2014
8		Advances in Solar Energy Technologies	IIT Delhi	QIP Short Term Course	Delhi	December 09, 2014
9		Advances in Solar	MITS	Short Term	Gwalior	February

		Energy	Gwalior	Course		05, 2015
10		Energy Research and Management	PDM CTM, Bahadurgarh,	workshop cum seminar	Bahadurgarh	July 14, 2015
11		Recent Trends in Alternative Energy Sources	SIT, Mathura	National Level Seminar	Mathura	August 09, 2015
12		Application of Solar Energy	GCET Gr Noida	Seminar	Greater Noida	August 22, 2015
13		Futuristic Trends in Electronics & Renewable Energy	SIET, Gr Noida	Seminar	Greater Noida	October 21, 2015
14		Alternate Energy Sources and Energy Efficiency in India	TERI University, New Delhi	MDP	New Delhi	August 08, 2016
15		Renewable Energy Potential and Status	BVCoE, , New Delhi	National seminar	New Delhi	November 09, 2016
16		Solar Energy Applications	MIT, Gwalior	Short Term Course	Gwalior	March 08, 09, 2017.
17		Adaptive Neural Fuzzy Inference System (ANFIS) and its Application	KIET, Ghaziabad	FDP	Ghaziabad	July 14, 2017
18		Intelligent Management of Renewable Energy Technologies	YMCA UST	FDP	Faridabad	January 19, 2018
19		Recent Advances in Power Electronics and Drive	S.R.M.S. College of Engineering & Technology, Bareilly	FDP	Bareilly	July 12, 2018
20		Challenges & Opportunities; Opportunities in Energy Sector for Smart India	MIT, Moradabad	FDP	Moradabad	September 12, 2018
21		Sustainable & Reliable Solutions to Power Quality Problems in Smart Power System Network	JSS, Noida	FDP	Noida	October 10, 2018
22		Recent Trends in Power System Management	Rajkiya Engineering College, Banda (U.P.)	STC	Banda (U.P.)	November 30, 2018
23		Thermodynamics and its Applications to Solar Energy Systems Design	MIT, Gwalior	STC	Gwalior	March 09, 2019

b) Session Chair

SNo.	Author/ Co author (if any)	Title of course, /workshop/conference	Name Organizing institute	Conference	City	Date and Year
1		12 th IEEE INDICON	JMI, New Delhi	Conference	New Delhi	Dec 17- 20, 2015
2		International Conference i.e. CIPTECH-16	KIET, Ghaziabad	Conference	Ghaziabad	November 18, 2016
3		IEEE International Conference on "Communication, Control and Intelligent System (CCIS-2016)	GLA University Mathura	Conference	Mathura	November 20, 2016
4		International Conference on Electrical, Computer and Electronics (UPCON-2017)	GLA University Mathura	Conference	Mathura	October 28, 2017
5		International Conference on Signals Machines and Automation (SIGMA 2018)	Netaji Subhas Institute of Technology, New Delhi	Conference	New Delhi	February 24, 2018
6		1st International Conference on Signal Processing VLSI and Communication Engineering,	Delhi Technological University	Conference	New Delhi	March 30, 2019

8. Study Tour Organised/ Participated/ Attachment Organized/Internship:

SNo.	Details of the tour	Name of coordinating body	Duration

9. Consultancy assignment (if any):

SNo.	Organization/ agency	Cost, title of consultancy	Duration

(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)

10. Details of Institution/ Government/ Industry / own Institution Sponsored Research Projects (including Programme Evaluation) and Amount (Both completed and ongoing):

SNo.	Agency	Amount	Duration with dates	Status i.e. ongoing/ completed

11. Details of PhD and MPhil Scholars (including those awarded degree):

S.No.	Name and enrolment no:	Year of registration	Year of completion/ award
1	Dr. Sonveer Singh, 130140675 (Subhasrti University, Meerut)	2013	2016
2	Dr. Deepika Chauhan, JNU/RS/2013/ET119 (JNU, Jaipur)	2013	2017
3	Dr. Subhash Chandra,15- 9130003 (GLA University, Mathura)	2015	2018
4	Mr. G. S. Chaurasia, PhD/12/EE/1695 (Dr AKTU, Lucknow)	2012	Submitted
5	Mr. Amit Dash, Phd/13/EE/1345 (Dr AKTU, Lucknow)	2013	Pursuing
6	Mr. Saurav Diwania, 16PHDEE019 (Jamia Millia Islamia, New Delhi)	2016	Pursuing

12. Details of Programmes/ Courses coordinated/ written/ edited/ translated:

SNo.	Programme	Course	Unit (print)/ Audio/ Video/ eSLM	Coordinated/Written/ Edited (content/ language/ format)/ Translated	Period
1	Masers in Agri- Business Management Programme (SOA)	Non conventional Energy and clean Development Mechanism (NAME-039)	Unit IV, Wind Energy Utilization Technology	written	October 14, 2016

(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)

2	M.Sc. (Environmental Science)(SOITS)s	Sustainable Natural Resource Management	Unit 3: Solar and Hydropower Energy	written	June 12, 2019
3	Certificate in Motor Cycle Service and Repair (CMSR)	Motorcycle Repair and troubleshooting	Unit 1: The Motorcycle Transmission and Electrical System Unit 2: Basic Repair and Troubleshooting of Motorcycle. Unit 3: General Safety and Services Tips	Edited	November 2017
4	B.Tech in Electrical Engineering (BTELVI). (183credits)			Coordination (Academic)	January 2012- June 2019
5	B.Tech in Electronics & Communication Engineering (BTECVI). (183credits)			Coordination (Academic)	January 2012- June 2019
6	Diploma in Electrical Engineering (DELVI). (135credits)			Coordination (Academic)	January 2012- June 2019
7	Diploma in Electronics & Communication Engineering (DECVI). (135credits)			Coordination (Academic)	January 2012- June 2019

- Courses/ Units translated and period
- Audio programmes (title, Course, period)
- Video programmes (title and Course, period)

13. Training programmes designed and conducted, duration and dates

SNo.	Programme	Dates	Place	Number of Participants
1	Energy Conservation and Renewable Energy	April 22, 2014	IGNOU, New Delhi	60

14. Details of Counselling sessions conducted:

SNo.	Programme	Course	Place	Dates	Duration	Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other)
	DELVI	OIEE-001	IGNOU, New Delhi	March 26, 2013	One hr	Radio counselling
	BTME	BME-006	IGNOU, New Delhi	May 20, 2014	One hr	Radio counselling
	CETM	OEY-002	IGNOU, New Delhi	September 01, 2017	One hr	Radio counselling
	CETM	OEY-002	IGNOU, New Delhi	December 08, 2017	One hr	Radio counselling
	CETM	OEY-002	IGNOU, New Delhi	April 13, 2018	One hr	Radio counselling
	CETM	OEY-002	IGNOU, New Delhi	July 13, 2018	One hr	Radio counselling
	BTELVI	BIEL-022	IGNOU, New Delhi	May 20, 2012	45 Minute	Teleconferencing
	BTELVI	BIEL-022	IGNOU, New Delhi	May 20, 2012	45 Minute	Teleconferencing
	BTELVI	BIEE-014	IGNOU, New Delhi	January 20, 2013	45 Minute	Teleconferencing
	CETM	OEY-001	IGNOU, New Delhi	February 17, 2013	45 Minute	Teleconferencing
	BTELVI	BIEE-014	IGNOU, New Delhi	April 21, 2013	45 Minute	Teleconferencing
	CETM	OEY-001	IGNOU, New Delhi	May 15, 2013	45 Minute	Teleconferencing
	BTELVI	BIEL-022	IGNOU, New Delhi	September 15, 2013	45 Minute	Teleconferencing
	CETM	OEY-002	IGNOU, New Delhi	October 10, 2013	45 Minute	Teleconferencing
	CETM	OEY-	IGNOU,	April 20, 2014	45 Minute	Teleconferencing

		002	New Delhi			
	BTELVI	BIEL-022	IGNOU, New Delhi	May 18, 2014	45 Minute	Teleconferencing

15. Details of Patents granted (if any):
16. Contribution to IGNOU's corporate life:

SNo.	Chairperson/ Member of Committee	Name of the Committee	Date/ period
	Member	Committee to shortlist the candidate for engagement to the post of Junior Consultant (Civil/Electrical) for CMD	November 18, 2013
	Member	Member of selection committee for engagement to the post of Junior Consultant (Civil/Electrical) for CMD	December 10, 2013
	Member	Committee for determination of cost benefit analysis of procurement, AMC/CAMC or hiring CCTV and allied services for IGNOU	July 31, 2014
	Member	Committee for procurement of electrical items for day to day maintenance of temporary blocks at IGNOU campus	May 05, 2014
	Member	Committee for negotiation of rate of AMC for the lift installed in Block no 15 campus, Maidan Garhi, New Delhi	October 08, 2014
	Member	Committee for negotiation of rate of AMC for the lift installed in Block no 15 campus, Maidan Garhi, New Delhi	October 28, 2014
	Member	Committee for negotiation of rate of AMC for the lift installed in Block no 15 campus, Maidan Garhi, New Delhi	December 04, 2014
	Member	Committee for determination of cost benefit analysis of procurement, AMC/CAMC or hiring CCTV and allied services for IGNOU	December 11, 2014
	Member	Committee for determination of cost benefit analysis of procurement, AMC/CAMC or hiring CCTV and allied services for IGNOU	December 18, 2014
	Member	Tender for opening and evaluation committee for furniture items	September 02, 2015
	Member	Tender opening and evaluation committee	Oct 06, 2015
	Member	Evaluation of technical bids for the online tenders of Centrifugal motor pump and motor set	September 27, 2016
	Member	Committee for Refreshment for organization of Convocation, Foundation day, G. Ram Reddy Memorial lecture.	November 2013-2018

(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)

	Member	Inter School Group for Industry Interaction/Tie ups and NSQF compliance for skill development programme	December 08, 2016
	Member	Committee for Refreshment for organization of New Year programme on January 02, 2017	December 15, 2016
	Member	Evaluation of technical bid for centrifugal pump set	Aug 31, 2016
	Member	Meeting for survey the local market and purchase electrical items for day to day maintenance of IC building at HQ and AGVC.	November 09, 2016
	Member	Committee to investigate in the matter of Tender Service Provider	September 24, 2018
	Member	Committee for “Finding the Facts” in respect of Chand Sharma, Asstt. Engineer (Elect.), for non to execute the official work,	July 10, 2019

17. Administrative position/s held in the University (even as in charge)

SNo.	Designation	Period

18. Any other contribution/information

Signature of Teacher /Academic

Signature of Director/ Head