Name of the Faculty	Dr. V. GUNASEKARAN			
Designation	Assistant Professor			
Department	Materials Science, School of Technology			
Date of Joining at CUTN	29 th August 2016			4
Qualifications with Class/Grade	UG		PG	Ph.D.
	B.Sc. (Physics) Madurai Kamaraj University, Madurai First Class with Distinction (84.54 %)	Engineeri PSG Collo Bharathi Coimbat	(Faculty of ng). ege of Tech, ar University, ore.	Ph.D. (Mech. Engg) Jeju National University, Republic of Korea. Best Ph.D. Thesis award and Best outgoing student award from Jeju National University, Republic of Korea.
		M.Phil. F M.S. Uni Tirunelve First Clas M.B.A., Madurai	Physics versity, eli.	Republic of Korea. Ph.D. Thesis Title: Development of Nanoscale Graphitic Devices and the Transport Characterization
Area of Specialization	 ✓ MEMS/NEMS device fabrication and their transport studies. ✓ Electronic transport of 2D materials such as Graphene,MoS₂ etc., ✓ Nanolithography/photolithography/Focused Ion Beam ✓ Nano-hybrids and Nanocomposites for waste-water treatment. ✓ Energy storage devices- Electrochemical Supercapacitors 			
Subjects Teaching	✓ Energy storage devices- Electrochemical Supercapacitors. UG PG			
Judjects reacting	Materials Physics Nanotechnology 1. Materials Sci 2. Nanostructu 3. Nanocompos		cience Engineering ured Materials. osite Materials amics and Quantum Mech.	
Total Experience in Years	Teaching	Industry	. memodyn	Research
Total Experience III Tears	4 years (Full Time)	9 years (F	ull time)	
	, , ,	- '	,	9 years
Papers Published		National: 4 International		
Papers Presented in Conferences	National: 10 International			
Conferences Participated Ph.D/Projects Guided	National: 15 Guided 17 M.Tech students and 2 M.Sc. Students for their final projects. 2 PhD students – ongoing (one PhD student submitted synopsis already)			
Books Chapters Published	2 (International) + 4			, , , //
Professional Memberships	 Life Member in Materials Research Society of India Member in Korean Physical Society Member in Korean Society of Mechanical Engineering Institute of Physics, London, UK. 			
Awards	 JSPS Post-Doc Fellowship, Tohoku University, Japan (2 years). Best Teacher Award from Karunya University, Coimbatore. Best Researcher Award (2 consecutive years) from Karunya University. Best Research Paper Award from Karunya University. Best Achievers' Award from Karunya University, Coimbatore Best Ph.D. Thesis award from Jeju National University, 			

	 Republic of Korea. Best Ph.D. Student Award from Department of Mechanical Engineering Dept, Jeju National University, Republic of Korea Best Outgoing Cadet Award from NCC (National Cadet Corps), Ministry of Defense, India. Best Poster Presentation Award from "10th Asia-Pacific conference on Plasma Science and Technology (APCPST)" and 23rd Symposium on Plasma Science for Materials (SPSM)" held at Lotte Hotel, Jeju, Korea (July 4-8, 2010).
	10. Brain Korea -21 (BK-21) Fellowship by Korean Government.
Grants Fetched	Project Proposal titled "Design and Development of Cost Effective, Novel process for efficient waste water treatment using Graphene-oxide nanoparticles" has been approved and sanctioned by Department of Science and Technology (DST) under the Young Scientist Scheme, Government of India, New Delhi (Project cost Rs. 22.8 Lakhs).
Interaction with Professional	1. Jeju National University, Jeju, South Korea.
Institutions	2. Tohoku University, Japan.
	3. B.S. Abdul Rahman University, Chennai, India.
	4. PSG College of Technology, Anna University, Coimbatore.
International Journal Publications	1. Gunasekaran Venugopal, Ryota Suto, Keiichiro Sashimi, Naoka
*-corresponding author	Nagamura, Koji Horiba, Maki Suemitsu, Masaharu Oshima and Hirokazu Fukidome, "Observation of nanoscopic charge-
(Only selected papers are shown	transfer region at metal/MoS ₂ interface", <i>Material Research Express</i> (<i>IOP</i>), 3 (7), 075004, [2016].
here).	 Gunasekaran Venugopal*, C.V. Jipsa, R. Nivea, Varu Singh, Ashwini Kumar, Azhagurajan Mukkannan, "Nano-dynamic mechanical and thermal responses of single-walled carbon nanotubes reinforced polymer nanocomposite thinfilms", <i>J. Alloys and Compounds</i>, 688, 454-459 [2016].
	3. V. Gunasekaran* , G.H. Park, K.S. Kim, M. Suemitsu, Hirukazu Fukidome, "Observation of insulating and metallic-type behavior in Bi ₂ Se ₃ transistor at room temperature", <i>Nanosystems: Physics</i> , <i>Chemistry, Mathematics</i> , 7 (3), 565-568 [2016].
	4. Gunasekaran Venugopal et al* , "Graphdiyne nanostructures as a new electrode material for electrochemical supercapacitors", International Journal of hydrogen Energy , 41 (3), 1672-1678 [2016].
	5. Gunasekaran Venugopal et al* , "Graphdiyne-ZnO nanohybrids as an advanced photocatalytic material", J. Phys. Chem. C. , (ACS), 119 (38), 22057-22065 [2015].
	6. V. Gunasekaran*, "Graphene oxide (GO)-Fe ³⁺ hybrid nanosheets with

- effective sonocatalytic degradation of Reactive Red 120 and study of their kinetic mechanism", *Ultrasonics Sonochemistry*, 24, 123-131 (2015).
- 7. **Gunasekaran Venugopal***, "Removal of heavy metal ions from pharma-effluents using graphene-oxide nanosorbents and study of their adsorption kinetics", *J. Indus. Engg. Chem.* 30, 14-19 (2015).
- 8. **Gunasekaran Venugopal et al***, "Enhanced photocatalytic efficacy of organic dyes using beta-tin tungstate-reduced graphene-oxide nanocomposites" *Materials Chemistry and Physics*, Vol. 145, 108-115(2014).
- 9. **Gunasekaran Venugopal**, Sang-Jae Kim, "Fabrication of nanoscale three-dimensional graphite stacked-junctions by focused-ion-beam and observation of anomalous transport characteristics" *Carbon* Vol. 49, 8, 2766-2772, (2011).
- 10. **Gunasekaran Venugopal et al***, "Understanding the Adsorption Property of Graphene-oxide with Different Degrees of Oxidation Levels" *Powder Technology*, Vol. 257, 141-148 (2014) .
- 11. **V. Gunasekaran et al*,** "Study on inorganic oxidants assisted sonocatalytic degradation of resazurin dye in presence of β-SnWO₄ nanoparticles", *Materials Science in Semiconductor Processing*, Accepted inpress (2014).
- 12. **V. Gunasekaran et al***, "Effect of oxygenated functional groups on Photoluminescence properties of graphene-oxide nanosheets" *Materials*

	Science in Semiconductor Processing, Vol. 10, 174, 179 (2014)			
	Science in Semiconductor Processing, Vol. 19, 174-178 (2014) 13. Gunasekaran Venugopal*, K. Karthikeyan, SJ. Kim, "An investigation on high-temperature electrical transport properties of graphene-oxide nano-thinfilms", Applied Surface Science, Vol. 280, 903-908 (2013)			
	14. V. Gunasekaran et al, "Phenylhydrazones of Piperidin-4-ones as AND, OR, NOR, NAND, and INH Molecular Logic Gates, <i>Applied Spectroscopy</i> , Vol. 67, 9, 1042-1048 (2013).			
	15. Gunasekaran Venugopal*, K. Karthikeyan, R. Mohan, Sang-Jae Kim, "An Investigation of electrical transport characterization of Graphene oxide Thinfilms" <i>Materials Chemistry and Physics</i> " Vol. 132, 29-33, 2012.			
	16. Gunasekaran Venugopal* , Sang-Jae Kim, "Investigation of Transfer characteristics of High performance Graphene Flakes" " <i>Journal of Nanoscience and Nanotechnology</i> ", 13, 3515-3518 (2013).			
	17. Gunasekaran Venugopal* , S-J. Kim , "Temperature dependent transfer characteristics of graphene field effect transistors fabricated using photolithography" <i>Current Applied Physics</i> , Vol. 11, S381-S384, (2011).			
	18. Gunasekaran Venugopal* , S-J. Kim, "Investigation of electrical transport characteristics of nano-scale stacks fabricated on thin graphite layer" <i>Thin Solid Films</i> , Vol. 519, (2011) 7095-7099.			
	19. Gunasekaran Venugopal , Sang-Jae Kim, "Fabrication and Characteristics of Nanoscale stacked-tunneling-junctions of thin graphite flake," <i>Japanese Journal of Applied Physics</i> , Vol. 50, (2011) 06GE06.			
	20. Gunasekaran Venugopal , S-J. Kim, "Nanoscale stack fabrication approach towards three dimensional stack of graphene sheets using focused ion beam", <i>Journal of Nanoscience and Nanotechnology</i> . (2011) (in Press).			
Conferences Attended				
	International: More than 30 Papers presented in International Conferences held in various countries (Including Korea, Japan, USA).			
	National : More than 15 papers in India.			
	Invited Talks: 10 (delivered in India, Korea, and Japan)			
Contact Details	Dr. V. Gunasekaran			
Contact Details	Assistant Professor			
	Department of Materials Science			
	School of Technology			
	Central University of Tamil Nadu,			
	Neelakkudi, Kangalancherry (Po)			
	Thiruvarur- 610 005, Tamil Nadu, India			
	Mobile No.+91-98947 89648			
	Email: gunasekaran@cutn.ac.in			