Curriculum Vitae

1. Name **: Dr. SHAHEDUL HAQUE LASKAR**

2. Address : Department of Electronics & Instrumentation Engineering
National Institute of technology Silchar, Pin-788010 (India) (Off)

Email ID : shlaskar@ei.nits.ac.in, shlaskar@gmail.com
Mobile : +919435178423

3. Designation : Associate Professor

4. Qualifications :

University	Degree/Div	Year	Specialization
AMU, Aligarh	B.Sc. Engg/Div I	1986	Electrical Engg
AMU, Aligarh	M.Sc. Engg/ Div I	1988	Instrumentation & Control
AMU, Aligarh	PhD	2013-14	Real-time Power Quality Monitoring by software development

5. Employment record (starting from present position)

University	Designation	Period
AMU, Aligarh, India	Lecturer(Adhoc)	Aug'1989 to April'1990
NIT, Silchar, India	Lecturer	09.09.1991 to 19.01.1996
NIT, Silchar, India	Senior Lecturer	20.01.1996 to 27.05.2006
NIT, Silchar, India	Lecturer(S.G.)	28.05.2006 to 27.05.2009
NIT, Silchar, India	Associate Professor	From 28.05.2009 onwards

6. Other related experience – research, industrial etc.

Organization/Employer	Designation	Period
F/O Engg & Tech, AMU, Aligarh	Research Scholar	From 1989 to 1990
Do	Research Scholar(PhD)	2009-2012
ISVR, Southampton Univ	Academic visitor	June-July'2007

7. Research Project:

Year	Organization	Project Title	Amount received
2005-06	MHRD	TAPTEC Project on "Intelligent Instrumentation Lab"	Rs.7.00 lacs. (completed)

8. Teaching Experiences: Thirty yrs. (30)+

9. Projects/Thesis guided:

(i) B. Tech Projects: 40
(ii) M. Tech Projects/Dissertations guided: 15
(iii) PhD guided: 04(completed) +01(submitted)+ 03 (ongoing)

10. Membership of Scientific & Professional Societies:
SMIEEE, Member IEEEIM, LMISTE, LMISOI.

11. **Honours and Awards**:

i) National merit scholarship,
ii) Science Talent Search Award on Solar Energy,
iii) UGC fellowship for higher studies from 2009- 11,
iv) IEEE Senior Membership.
v) 3 patents awarded

12. **Academic, research and administrative performance and achievements**

i) Teaching (theory & Lab) of different courses
ii) As faculty advisor
iii) As project guide/supervisor
iv) Examination/DUPC related works
v) DPC (Purchase)/Testing of procured instruments
vi) Acted as HOD from 2012-16 & 2019-21
vii) Management of Deptt during Headship
viii) Syllabus development/upgradation
ix) Laboratory Development
x) Departmental Infrastructure management
xi) Administrative duties as & when assigned by the higher authority
xii) As Principal Investigator of Project
xiii) As member of doctoral committees(DC)
xiv) Establishment of CoE of National Instruments, India at NIT Silchar wrt MoU
xv) Organizing and coordinating of few work-shops.
xvi) As reviewers of Different international journals and conference papers.
xvii) As examiner of PhD thesis of other reputed institutes/universities.
xviii) As resource person in invited talks/lectures in different institutes.

13. **Subjects/courses taught**:

(i) Electrical & Electronic measurement, (B.Tech classes)
(ii) Measurement & Instruments, including labs
(iii) Transducer Engineering
(iv) Transducers & sensors
(v) Instrumentation & control
(vii) Biomedical instrumentation
(viii) Advanced Instrumentation
(ix) Industrial Instrumentation
(x) Instrumentation & control in energy systems (M.Tech)
(xi) Advanced Sensing Techniques
(xii) Advanced Sensors Signal processing

14. **Short term courses attended:** Forty (**40**)+

15. **Patents**: Granted (03) + filed & published (03)

(i) Patent granted/awarded on,"A Rotating Magnetic Field Based Ultra Fast Measurement of Speed,"patent no.332662, date of award 21/02/2020;

(ii) Patent granted/awarded on,"Method and Portable Apparatus for Generating Seismic Vibrations and Foreshocks". Patent application no: 202011024909. The patent number allotted is: 358821. Date of award: 18.02.2021;

(iii) Patent awarded on "A Selsyn based Vibration Measurement of Machines", Patent no. 338468; application no. 3470/DEL/2011, date of award: 15/06/2020;

(iv) Patent published on, "A rotating magnetic field based calibration of tachometers", App. No. 2517/DEL/2013; Date of filing: 27/08/2013; Publication date (U/S 11A): 04/10/2013; Date of FER reply; 03.12.2018;

(v) Patent published on, "A Method and Device for Calibration of a Shake Table based on Rotating Magnetic Field," Indian Official Journal of the Patent Office, Patent Application 202011040888, 21 Sept. 2020.

(vi) Patent published on, "An instrument for measurement of seismic vibrations and foreshocks for the prediction of earthquakes," the Patent Office Journal No. 01/2020 Dated 03/01/2020, Application No.201911053683 A, page-66.

16. **Countries/places visited:** i) U.K.(University of Southampton), ii) Jordan, iii) Saudi Arabia, iv) Bangladesh, v) Malaysia, vi) West Germany(Swiss-German Westphalia University), vii) USA (MIT, Howard, 2012; and New York, New Jersey, Miami, Chicago, 2018), viii) Portugal(Lisbon), 2019

17. **Other activities**: Counselling, Participation in different activities of staff & students in campus, Tree plantations, Blood donation, Relief works, Member of various local educational/academic/social activities bodies (District).

18. **Research Interests:**

Instrumentation, Measurements, Sensing technology, Virtual instrumentation, Biomedical instrumentation, Brain Computer Interfacing(BCI), Biometrics, signal acquisition and signal processing, Industrial instrumentation, Vibration & seismic motion measurements, Power quality monitoring, IoT applications, Smart sensors and Intelligent Instrumentation.

19. Awards/Achievements

1. National Merit Scholarship;

2. Science Talent Search award;

3. UGC Fellowship for Research, etc.

4. Patent granted/awarded on,"A Rotating Magnetic Field Based Ultra Fast Measurement of Speed," patent no.332662, date of award 21/02/2020;

5. Patent granted/awarded on,"Method and Portable Apparatus for Generating Seismic Vibrations and Foreshocks". Patent application no: 202011024909. The patent number allotted is: 358821. Date of award: 18.02.2021;

6. Patent awarded on "A Selsyn based Vibration Measurement of Machines", Patent no. 338468; application no. 3470/DEL/2011, date of award: 15/06/2020;

7. Patent awarded on, "A rotating magnetic field based calibration of tachometers", App. No. 2517/DEL/2013; Date of filing: 27/08/2013; Publication date (U/S 11A): 04/10/2013,; Date of FER reply; 03.12.2018;

8. Patents Published: Three (3) new patents on measurement and instrumentation, in the Indian official journal of Patents.

20. Books/Book Chapters published:

1. Dr. S. H. Laskar, A RT Power Quality Monitoring using Virtual Instrumentation, Published by Shree Publishers & Distributors, New Delhi; ISBN No. 978-81-8329-937-4 (2018)

2. Dr. S. H. Laskar, PQ Issues and Monitoring, Published by LA Publishing, Germany; ISBN: 978-613-6-72490-4 (2018)

3. Mali B., Laskar S.H. (2020), PLS-Based Multivariate Statistical Approach for Soft Sensor Development in WWTP. In: Shreesha C., Gudi R. (eds) Control Instrumentation Systems. Lecture Notes in Electrical Engineering, vol 581. Springer, Singapore. Print ISBN: 978-981-13-9418-8.

4. S. H. Choudhury, A. Kumar, Shahedul Haque Laskar, "Investigation of the Fingernail Plate for Biometric Authentication using Deep Neural Networks," Book Chapter published in AI and Deep Learning in Biometric Security, 1st Edition (2021) ImprintCRC Press, Pages33, eBook ISBN9781003003489

21. Publications:

International Journals

1. S. H. Choudhury, A. Kumar, Shahedul Haque Laskar, "Investigation of the Fingernail Plate for Biometric Authentication using Deep Neural Networks," Volume 106, 2021, 107344, ISSN 1568- 4946, https://doi.org/10.1016/j.asoc.2021.107344.
2. S. H. Choudhury, A. Kumar, Shahedul Haque Laskar, "Adaptive Management of Multimodal Biometrics—A Deep Learning and Metaheuristic Approach, Applied Soft Computing," Volume 106, 2021, 107344, ISSN 1568- 4946, https://doi.org/10.1016/j.asoc.2021.107344.
3. Rupesh Mahamune, S. H. Laskar. "Classification of the four-class motor imagery signals using continuous wavelet transform filter bank-based two-dimensional images." International Journal of Imaging Systems and Technology. 2021 May 3. Doi: https://doi.org/10.1002/ima.22593
4. Bachhar, T., Sit, S., Laskar, S. H., Sahoo, S., "Investigation of dielectric relaxation in tributyl phosphate from susceptibility and conductivity measurement under microwave field," Bull Mater Sci 44, 120 (2021). https://doi.org/10.1007/s12034-021-02366-w

5. M. A. Siddiqui, MN Anwar, S. H Laskar, M Shamsuzzoha, MR Mahboob, "Closed- Loop Tuning of Cascade Controllers Based on Set-Point Experiment", Journal of Engineering research, Springer, 2020.
6. M. A. Siddiqui, M. N. Anwar, S. H. Laskar, and M. R. Mahboob, "A unified approach to design controller in cascade control structure for unstable, integrating and stable processes," ISA Transactions, pp. 1–16, 2020, doi: 10.1016/j.isatra.2020.12.038. Elsevier
7. M. A. Siddiqui, M. N. Anwar, and S. H. Laskar, "Enhanced control of unstable cascade systems using direct synthesis approach," Chemical Engineering Sciences, 232, pp. 116322, 2021, doi: 10.1016/j.ces.2020.116322. Elsevier
8. M. A. Siddiqui, M. N. Anwar, and S. H. Laskar, "Sliding mode controller design for second-order unstable processes with dead-time," Journal of Electrical Engineering, 71, no. 4, pp. 237–245, 2020, doi: 10.2478/jee-2020-0032. De-Gruyter
9. B. Mali, S. H. Laskar, "Incipient fault detection of sensors used in wastewater treatment plants based on deep dropout neural network," Springer Nature Applied Sciences (2020) 2:2121 | https://doi.org/10.1007/s42452-020-03910-9
10. Pattanayak SS, Laskar SH, Sahoo S (2020). Investigation of organic corn husk-based flat microwave absorber. International Journal of Microwave and Wireless Technologies 1–10. https://doi.org/10.1017/ S1759078720001555
11. Pattanayak, S., Laskar, S.H., & Swagatadeb Sahoo, (2020). Microwave absorption study of dried banana leaves-based single-layer microwave absorber. International Journal of Microwave and Wireless Technologies, 1-10. doi:10.1017/S1759078720000707
12. M. A. Siddiqui, MN Anwar, S. H Laskar, "Tuning of PIDF Controller in Parallel Control Structure for Integrating Process with Time Delay and Inverse Response Characteristic", Journal of Control, Automation and Electrical Systems, Springer, 2020
13. P. Kant, S. H. Laskar, J. Hazarika, and R. Mahamune, "CWT Based Transfer Learning for Motor Imagery Classification for Brain computer Interfaces," J. Neurosci. Methods, vol. 345, no. February, p. 108886, 2020.
14. SH Choudhury, A. Kumar, S. H. Laskar, "Biometric Authentication through Unification of Finger Dorsal Biometric Traits", Information Science, Vol.497, September 2019, Pages 202-218, Elsevier
15. MM Hussain, MMS Beg, MS Alam, S. H. Laskar, "Big Data Analytics Platforms for Electric Vehicle Integration in Transport Oriented Smart Cities: Computing Platforms for Platforms for Electric Vehicle Integration in Smart Cities", International Journal of Digital Crime and Forensics (IJDCF), Vol.11, Issue-3, pages 23-42(2019).
16. J. Hazarika, P. Kant, R. Dasgupta, S. H. Laskar, 2019, EEG Wavelet coherence based analysis of neural connectivity in action video game players in attention inhibition and short-term memory-retention task, Recent Advances in Electrical and Electronic Engineering, Vol. 12 , Issue 4 , Bentham Science, DOI : 10.2174/2352096511666180821111536
17. J. Hazarika, P. Kant, R. Dasgupta, and Shahedul Haque Laskar, 2018, "Neural modulation in action video game players during inhibitory control function: An EEG study using discrete wavelet transform, Biomedical Signal Processing and Control", volume 45, pp. 144-150, Elsevier.
18. B. Mali, S. H. Laskar, 2016, "Control of DO Concentration using PID and Fuzzy Controllers", Journal of Basic and Applied Engineering Research p-ISSN: 2350-0077; e-ISSN: 2350-0255; Volume 3, Issue 7; April-June, 2016, pp. 621-623.
19. S. H. Laskar, Mohibullah, "PQ issues and need of intelligent power quality monitoring in the smart grid environments", Int. journal of Emerging Technology and engineering (IJETAE), ISSN 2250-2459, Vol. 2, Issue 9(2012).
20. S.J. Arif, Imdadullah, Shahedul Haque Laskar, "Instantaneous Angular Speed Measurement for Low Speed Machines", published in the IISTE journal on Innovative Systems design & Engineering (USA), ISSSN 2222-1727(Paper), Vol. 3, No. 5 (2012).
21. N. Sinha, S.H. Laskar, K. Goyal, and P.K. Nair, "Design of a microprocessor based novel braking of three phase induction motor"-Proceedings of IEEE Int. Conf. on Energy

Management and Power Delivery (EMPD), Singapore, 21-23 Nov.,1995.Page(s): 620-623 vol.2. ISBN: 0-7803-2981-3; D.O.I.:10.1109/EMPD. 1995.500798.

22. S.H. Laskar, M.S.J. Ashgar, "A frequency invariant digital phase angle meter", AMSE transactions, AMSE Press, Vol.5, No.2,1990, pp. 57-64. .....

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National Journals:

1. S. J. Arif, Shahedul Haque Laskar, Syed Mohammad Hamza and T. Rasul "A Method and Device for Calibration of a Shake Table based on Rotating Magnetic Field," Indian Official Journal of the Patent Office, Patent Application 202011040888, 21 Sept. 2020.
2. S. J. Arif, M. S. J. Asghar, S. H. Laskar, "A Selsyn Based Vibration Measurement of Machines," The Patent Office Journal, Application No. 3470/DEL/2011, Indian Official Journal of the Patent Office, Issue No.16/2012, p-6142, April. 20, 2012.
3. S. J. Arif, S. H. Laskar, SM Hamza, SH Choudhury, "Method and Portable Apparatus for Generating Seismic Vibrations and Foreshocks", the Patent Journal of India, issue no. 32/2020, application no. 202011024909, 07 August, 2020
4. S. H. Laskar, S. J. Arif, "An instrument for measurement of seismic vibrations and foreshocks for the prediction of earthquakes," the Patent Office Journal No. 01/2020 Dated 03/01/2020, Application No.201911053683 A, page-66.
5. B. Mali, S. H. Laskar, 2018, "Soft Sensor for Estimation and Identification of Reduced Dimensional Quality Control Inputs", Journal of Instrumentation Technology and Innovations, Vol. 7, No.3, pp. 24-29, STM Journals.
6. S.J. Arif and Shahedul Haque Laskar, "A Rotating Magnetic Field Based High Resolution Measurement of Velocity and Acceleration of Seismic Vibration," Patent Application number 778/DEL/2011A, Indian Official Journal of the Patent Office, Issue No. 17/2011, p-7116, Apr. 29, 2011.
7. S.J. Arif and Shahedul Haque Laskar, "A Rotating Magnetic Field Based Ultra-Fast Measurement of Speed," Patent Application No.777/DEL/2011A, Indian Official Journal of the Patent Office, Issue No. 18/2011, p-8219, May 06, 2011.

International Conferences:

1. Rupesh Mahamune, S. H. Laskar. "Feature Extraction Techniques for the Classification of Four-Class Motor Imagery-Based EEG Data: A Comparison." In 2nd International Conference on Microelectronic Devices, Circuits and Systems (ICMDCS 2021), organized by the Department of Micro and Nanoelectronics, School of Electronics Engineering, VIT University, Vellore, 11th to 13th February 2021.
2. M. A. Siddiqui, M.N. Anwar and S. H. Laskar, "PID Controller Tuning of Cascade Control Systems using Frequency Response Matching and Dominant Pole Placement Method", 2020 IEEE 19th International Power Electronics and Motion Control Conference (PEMC) , Gliwice, Poland, 20th & 24th April 2021
3. B. Mali, S. H. Laskar, "Deep learning based automatic maintenance of soft sensors used in wastewater treatment plants," IEEE Int. Conf., 2020 IEEE-HYDCON,(India), pp.1-6., Sept, 2020
4. M. A. Siddiqui, S. H Laskar, M. N. Anwar and M. Naseem, "A Model-Free PI/PID Controller based on Direct Synthesis Approach to achieve Disturbance Rejection", 45th Annual Conference of the IEEE Industrial Electronics Society (IECON2019), Lisbon, Portugal, Oct. 14-17, 2019.
5. S. S. Pattanayak, S. H. Laskar, and Swagatadeb Sahoo, "Modelling of Dried Banana Leaves based Microwave Absorber over 1-7 GHz Frequency Range", TENCON - The IEEE Region 10 Conference, Kolkata, 17-20th October, 2019 (accepted)

6. S. S. Pattanayak, S. H. Laskar, and Swagatadeb Sahoo, "Modelling Agricultural Residue based Microwave Absorber under X-band Frequency", TENSYMP - The IEEE Region 10 Symposium, Kolkata, 7-9th June, 2019.
7. S. S. Pattanayak, S. H. Laskar, and Swagatadeb Sahoo, "Microwave Absorption Properties of Building Material Marble", 5th International Conference for Convergence in Technology (I2CT), IEEE Conference, The Gateway Hotel, XION Complex, Wakad Road, Pune, India. Apr 06-08, 2019.
8. S. S. Pattanayak, S. H. Laskar, and Swagatadeb Sahoo, "Modelling Coconut Fiber Coir and Charcoal Powder Made Microwave Absorber over X-band Frequency", 5th International Conference for Convergence in Technology (I2CT), IEEE Conference, The Gateway Hotel, XION Complex, Wakad Road, Pune, India. Apr 06-08, 2019.
9. M. A. Siddiqui, M. N. Anwar, and S. H. Laskar, "A Simple Tuning Approach for PID Controller based on Direct Synthesis and Root locus," 3rd International Conference on Computing Methodologies and Communication (ICCMC 2019), Erode, India, 27-29, March 2019.
10. S. S. Pattanayak, S. H. Laskar, and Swagatadeb Sahoo, "A Review on Microwave Absorber Using Agricultural Residues", International Conference In Recent Trends on Electronics & Computer Science (ICRTECS-2019), NIT Silchar, 18-19th March 2019.
11. R. Mahamune and S. H. Laskar, "A review on artefacts removal techniques for Electroencephalogram signals", IEEE/2nd International Conference on Innovations in Electronics, Signal Processing and Communication (IESC), organized by NIT Meghalaya, Shillong, March 01-02, 2019.
12. S. Sahoo, R. A. Laskar, J.K. Das, S. H. Laskar, "Gear Fault Diagnosis and Classification Using Machine Learning Classifier", 3rd International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence (ISMSI 2019), Male, Maldives, 23-24 February 2019.
13. P. Kant, J. Hazarika, S.H. Laskar, Wavelet transform based approach for EEG feature selection of motor imagery data for brain-computer interfaces, 3rd International Conference on Inventive Systems and Control (ICISC 2019), IEEE, 10-11, January 2019, Coimbatore, India.
14. M. N. Anwar, M. A. Siddiqui, S. H. Laskar, and A. Yadav, "PIDA Controller Design for Higher Order Stable Process with Inverse Response Characteristic," in 2018 International Conference on Computational and Characterization Techniques in Engineering and Sciences, (Lucknow) CCTES 2018, pp. 236–240.
15. MA Siddiqui, MN Anwar, S H Laskar, "PID Controller Tuning of Cascade Control Systems
16. B. Mali, S. H. Laskar, "PLS-Based Multivariate Statistical Approach for Soft sensor development in WWTP," Control Instrumentation Systems-Proceedings of XV Control Instrumentation System Conference, Manipal, Oct 26-27, 2018.
17. B. Mali, S. H. Laskar, "Soft Sensor for Estimation and Identification of Reduced Dimensional Quality Control Inputs," XIV Control Instrumentation System Conference, Manipal, Nov 3-4, 2017.
18. B. Mali, S. H. Laskar, "Control of DO Concentration using PID and Fuzzy Controllers," presented at Int. Conf. on Recent Advances in Mechanical, Electrical, Electronics, Civil, Computer Science and Information Technology 2016, New Delhi, May 28, 2016.
19. S. H. Laskar, Sanaullah and Mohibullah, "Power quality monitoring in sustainable energy systems", published in the proc. of IEEE International Symposium on Sustainable Systems and Technology (ISSST 2012), held at Boston (USA) during 16-18 May 2012.
20. S. H. Laskar, Mohibullah, "Power Quality Monitoring by Software Development", International conference on Electrical Power System Engineering, organized by World Academy Of Science at Penang, Malaysia, during 24-26 FEB'2010, Proceedings 62,2010, pp.586-591.

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National Conferences

1. S.H. Laskar, Mohibullah, "Power Quality Issues and Impacts of Poor Power Quality on Global Economy with a reference to India", National Conference][CON, EED, AMU, Aligarh, Feb 12-13, 2011.
2. S. H. Laskar, Jamil Ahmad, "Oxford Solar Initiative and the Oxford Climate Change Action Plan", National Conference on Renew. Energy 2010 (NCRE2010) 23–25 March 2010, Tezpur University, Tezpur.
3. S. H. Laskar, "An Intelligent instrumentation System based on LabVIEW for Detection and Monitoring of Earthquake", organized by CED, NIT Silchar during 18-20 Oct'2008.
4. S.H. Laskar, "LabVIEW based DAS for Experimental Methods and Instrumentation in Temperature Measurement during Heat Transfer and Fluid Flow in Process Industries," pp.428-436-published in the proc. Of the national seminar of AHTF, organized by the Z. H. College of Engineering & Technology, AMU, Aligarh, under experimental techniques & instrumentation, 16-17, Sept'2006).
5. S.H. Laskar, M.S. J. Asghar, "A frequency deviation transducer for the measurement of speed of rotating machines"-All India conference on Applied Instrumentation, sponsored by IE(India),IIT, Roorkee (Feb'14-15,1992).
6. S.H. Laskar, W. Ahmed, "Improvements in a new technique for capacitance measurements"-5th All India symposium on Instrumentation (Dec'28-29, 1987) at Lucknow (UP).

ANNEXTURE I

Few selected Short-term Courses attended (Total attended around 40):

1. From July 5th to 17th'1993,"Advanced microprocessor based system design on protection, instrumentation & control at REC, Silchar.
2. From Dec'1 to 13th'1994, on "Power semiconductor devices", at IIT, Kanpur.
3. From Feb' 12th to 16th '1996 on "Recent trends in casting & welding technology" at REC, Silchar.
4. From July 15th to Aug'4th'1996, on "Induction training programme" at Academic staff college AMU, Aligarh.
5. From Feb17th to 23rd '1997 on "Institutional Planning & Management " at REC Silchar.
6. From Jan'4th to 16th'1999, on "Mathematical Theory of Fluid Film Lubrication with special emphasis on Non-Newtonian Fluid "at REC, Silchar.
7. From Jan'17th to 28th' 2000 on "Biomedical Engineering" at Electrical Engg Deptt, Silchar Polytechnic. Silchar.
8. Patent Awareness Workshop (sponsored by TIFAC, New Delhi) on 10.05.2002.
9. Educational Utilization Programme on standardization, product certificate and quality system (sponsored by BIS, New Delhi) on 19.09.02.
10. From Dec'15th to 20th, 2003, on"Earth Quake Resistant Design" at NIT, Silchar.
11. "Soft Computing Techniques and Applications", from 15th to 18th May'2006, NIT, Silchar.
12. Power quality workshop, KKWAG, Nashik (2008).
13. Symposium on wireless sensors organized by ETC, NITS (2009).
14. Symposium on "Advances in Instrumentation and Control", organized by Electrical Engineering Department, ZHCOET, AMU, Aligarh on (2010).
15. LabVIEW Mechatronics, Mechanical Engg Dept, AMU, Aligarh 2011.
16. Research and Training on Biomedical Signal Processing from 3rd Jun to 13th Jul 2007 at ISVR, University of Southampton (UK).
17. Training on Effective Teaching from 30th Apr to 4th May 2012 at NIT Silchar.
18. Training on LabVIEW basics-a preparatory for CLAD exam from 16th Sep to 18th September, 2012 at NIT Silchar. ....etc.....