

1. Details of the Teacher/ Academic :

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|-----------------------------------|--|
| Name & Date of Birth : | Dr. Shiv Kumar Vyas |
| Date of Joining in IGNOU: | 01-11-1988 |
| Current Designation : | ASSOCIATE PROFESSOR IN ENGINEERING & TECHNOLOGY (AGRICULTURAL & WATER RESOURCES) |
| Pay Scale as on date : | Cell No. 13 Level 13A Rs. 187300/- as on 01-07-2019 |
| Qualifications : | <p>Doctor of Philosophy (2005) Indian Institute of Technology, New Delhi Applied Mechanics Department Thesis Topic: <i>A Small Scale Multiple Effect Distillation (MED) System for Rural Drinking Water Supply</i></p> <p>Master of Science (Agricultural Engineering) with Major: Soil and Water Conservation Engineering), Minor: Agricultural Statistics (1989) Indian Agricultural Research Institute, New Delhi Division of Agricultural Engineering Dissertation Topic: <i>Evaluation of Performance of a Canal Irrigation System – A Case Study</i></p> <p>Bachelor of Technology (Agricultural Engineering) (1984) Govind Ballabh Pant University of Agriculture and Technology, Pantnagar (Nainital) College of Technology</p> |

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/ membership of Professional body/ Statutory body | Agency name /Name of statutory body/ institution/ Apex body | Period |
|------------------------------|--|--|--|
| | Life Member | Indian Society of Agricultural Engineers, India | Life Member |
| | Life Member | National Society of Fluid Mechanics and Fluid Power, India | Life Member |
| | Member | Board of Studies of School of Engineering and Technology, IGNOU | 1991-2001 2005-2011 2015-2017 2019-Contd. |
| | Member | Board of Studies of School of Interdisciplinary and | 2016-2018 |

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| | | Trans- disciplinary, IGNOU | |
| | Member | Academic Council, Indira Gandhi National Open University | 2012-2014 |
| | Member | Board of Studies of School of Journalism and New Media Studies, IGNOU | 2012-2014 |
| | IARI Junior Research Fellowship | Indian Agricultural Research Institute, New Delhi | 1985-1987 |
| | University Bursary Scholarship | Govind Ballabh Pant University of Agriculture and Technology, Pantnagar | 1982-1983 |

3. Books/Book Chapter:

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

| SNo. | Name of Author1/ Editor 1, & Co- author (s) / Co- editor (s) (if any) | Title of chapter/book | Place of publicatio n | Publisher | Year | Total Pages | ISBN No. |
|------|--|--|-----------------------------|--|------|----------------|---------------|
| 1 | jointly with Prof. M. K. Magazine | Unit 12: <i>Ground Water Hydrology</i> , Block 4: Special Topics in Hydrology, ET-532A: Hydrology | New Delhi | Indira Gandhi National Open University | 1999 | 32 | 81-7605-516-6 |
| 2 | jointly with Prof. U. C. Chaube | Unit 13: <i>Flood Estimation</i> , Block 4: Special Topics in Hydrology, ET-532A: Hydrology | New Delhi | Indira Gandhi National Open University | 1999 | 26 | 81-7605-516-6 |
| 3 | jointly with Prof. U. C. Chaube | Unit 14: <i>Flood Forecasting</i> | New Delhi | Indira Gandhi National | 1999 | 16 | 81-7605-516-6 |

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| | | <i>and Flood Warning, Block 4: Special Topics in Hydrology ET-532A: Hydrology</i> | | Open University | | | |
| 4 | jointly with Shri S. K. Govil | Unit 5: Population Pressure, Block 2: Water Demand, ET-534C: Water Resources Planning | New Delhi | Indira Gandhi National Open University | 1999 | 30 | 81-7605-686-3 |
| 5 | jointly with Shri S. K. Govil | Unit 6: Water for Agriculture, Block 2: Water Demand, ET-534C: Water Resources Planning | New Delhi | Indira Gandhi National Open University | 1999 | 22 | 81-7605-686-3 |
| 6 | jointly with Dr. C. K. Jain | Unit 7: Water for Municipal and Industrial Uses, Block 2: Water Demand, ET-534C: Water Resources Planning | New Delhi | Indira Gandhi National Open University | 1999 | 23 | 81-7605-686-3 |
| 7 | jointly with Dr. G. Elumalai | Unit 11: Manpower and Personnel Developmen, Block 3: Planning of Water Resources Projects, ET-534C: Water Resources Planning | New Delhi | Indira Gandhi National Open University | 1999 | 19 | 81-7605-695-2 |
| 8 | jointly with Dr. Indra Mani | Unit 9: Reclamation of Salt | New Delhi | Indira Gandhi National | 2000 | 17 | 81-7605-860-2 |

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|--|--------|--|--|-----------------|--|--|--|
| | Mishra | Affected Soils, Block 2 Drainage of Agricultural Lands, ET-537A: Soil Conservation and Agronomy | | Open University | | | |
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4. Research Articles/Publications:

| SNo. | Author/ Co-author (if any) | Title | Name of Journal | Volume | page no. (s) | Year | ISSN No |
|------|---|--|---|--------|--------------|------|---------|
| 1. | P.K. Sen , Padma Vasudevan Sen, Anurag Mudgal, S.N. Singh, S.K. Vyas, & Philip Davies | <i>A small scale Multi-effect Distillation (MED) unit for rural micro enterprises: Part I—design and fabrication</i> | Desalination -The International Journal on the Science and Technology of Desalting and Water Purification, Elsevier B.V. | 279 | 15-26 | 2011 | |
| 2. | Sen, P.K., Sen, Padma V., Vyas, S.K. & Hegde, S. (2004 ^a), | <i>A Small-Scale Multiple Effect Water Distillation System for Rural Sector Part 1: Fabrication, Operation and Economics</i> | Proceedings of the 2nd BSME-ASME International Conference on Thermal Engineering, Dhaka, 2-4 January 2004 | | 588-593 | 2004 | |
| 3. | Sen, P.K., Sen, Padma V., Vyas, S.K. & Hegde, S. (2004 ^b) | <i>A Small-Scale Multiple Effect Water Distillation System for Rural Sector Part 2: Experimentation and Simulation,</i> | Proceedings of the 2nd BSME-ASME International Conference on Thermal Engineering, Dhaka, 2-4 January 2004 | | 594-599 | 2004 | |
| 4. | Sen, P.K., Sen, P.V., | <i>Performance Evaluation of a</i> | Proceedings of 30th National | | 517-523 | 2003 | |

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| | Vyas, S.K. and Hegde, S. (2003) | <i>Small-Scale Multiple Effect Water Distillation Unit,</i> | Conference on Fluid Mechanics and Fluid Power, National Institute of Technology Karnataka, Surathkal (India), December, 2003. | | | | |
| 5. | Sen, P.K., Sen, Padma V. & Vyas, S.K. (2002) | <i>Water Purification by Multi-effect Distillation for Rural Drinking Water Supply</i> | Proceedings of Second International (29th National) Conference on Fluid Mechanics and Fluid Power, IIT Roorkee | 2 | 982- 990 | 2002 | |
| 6. | Sen, P.K., Sen, Padma V., Vyas, S.K. & Kishore, R.K. (2001) | <i>Design and Manufacturing of a Small Scale Water Distillation System for Rural Areas</i> | Proceedings of 28th National Conference on Fluid Mechanics and Fluid Power (Volume-2) Punjab Engineering College, Chandigarh | | 432- 440 | 2001 | |
| 7. | Hegde, S., Manson, D.B., Sen, P.K., Sen, Padma V., & Vyas, S.K. (1999) | <i>Design of Mini Multi-Effect Distillation System for Drinking water Production, , pp 216-221.</i> | Proceedings of 11th ISME Conference on Mechanical Engineering, February 3-5, 1999, IIT Delhi | | 216- 221 | 1999 | |
| 8. | Sen, P.K., Sen, Padma V., Vyas, S.K. & Hegde, S. (1998a) | <i>Producing Drinking Water Using Vapour Compression and Multi-Effect Distillation,</i> | Proceedings of International Workshop on Technology Options for Sustainable Drinking Water System, August 10, 1998, Trivendrum. | | | 1998 | |
| 9. | Sen, Padma V., Sen, P.K., Hegde, S., Vyas, S.K. , Turne r, S. & | <i>Water Demineralisation: Technological Options Part I : An Overview,</i> | Proceedings of National Workshop on Recent Trends in Ion Exchange Technology and Demineralisation | | I-3 – I-12 | 1998 | |

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|-----|---|--|---|----|--------------|------|--|
| | Manson D.B. (1998b) | | Processes, November 10-11, 1998, NTPC, Noida | | | | |
| 10. | Sen, Padma V., Sen, P.K., Hegde, S., Vyas, S.K., Turner, S. and Manson D.B. (1998c) | <i>Water Demineralisation: Technological Options Part II : Demineralisation by Distillation,</i> | Proceedings of National Workshop on Recent Trends in Ion Exchange Technology and Demineralisation Processes, November 10-11, 1998, NTPC, Noida | | I-13 - I-21 | 1998 | |
| 11. | Hegde, S., Vyas, S. K., Sen, Padma V. & Sen, P. K. (2001), | Feasibility Study of a Water Distillation System Using Vapour Compression, | Proceedings of 24th National Conference on Fluid Mechanics and Fluid Power (Volume-2), B. E.College, Howrah (W. B.) | 2 | G-83 – G-90. | 2001 | |
| 12. | Shiv Kumar Vyas and P.B.S. Sarma (1992) | <i>An Analytical Model for Estimation of Flows at various Locations in a canal Command Area,</i> | Irrigation and Power Journal; Central Board of Irrigation and Power, New Delhi, India. (This Journal is now published as <i>Water & Energy International Journal.</i>) | 49 | 125-137 | 1992 | |

5. Policy Documents Reports/ Mimeos:

| SNo. | Title | Institution/ Agency | Year |
|------|---------------------------------------|---------------------|------|
| 1. | Issues for Consideration of VC, IGNOU | IGNOU | 2006 |
| 2. | | | |
| 3. | | | |

6. Book Review published :

| SNo. | Author/ Co-author (if any) | Title | Name of Journal | Volume | page no. (s) | Year | ISSN No |
|------|----------------------------|-------|-----------------|--------|--------------|------|---------|
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(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)

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

| SNo. | Author/ Co author (if any) | Title of presentation, /Talk/Lecture | Name Organizing institute | Conference | City | Date and Year |
|------|----------------------------|--------------------------------------|---------------------------|------------|------|---------------|
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8. Study Tour Organised/ Participated/ Attachment Organized/Internship:

| SNo. | Details of the tour | Name of coordinating body | Duration |
|------|---------------------|---------------------------|----------|
| 1. | | | |

9. Consultancy assignment (if any):

| SNo. | Organization/ agency | Cost, title of consultancy | Duration |
|------|----------------------|----------------------------|----------|
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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 |
|------|---|--------------|---------------------|--|
| 1 | Directorate General of Shipping, Mumbai under Ministry of Shipping, Government of India | Rs.10 Lakh | 2006-2016 | Completed |
| 2 | Hero MotoCorp Limited, India (Formerly, Hero Honda Motors Limited) | Rs.62.2 Lakh | 2004-2013 | Co-cordinator with Project Coordinator Prof. Manoj Kulshrestha (Project still continues) |

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

| SNo. | Name and enrolment no: | Year of registration | Year of completion/ award |
|------|------------------------|----------------------|---------------------------|
| 1. | | | |
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12. Details of Programmes/ Courses coordinated/ written/ edited/ translated:

| SN o. | Programme | Course | Unit (print)/ Audio/Video/ eSLM | Coordinated/Written / Edited (content/ language/ format)/ Translated | Period |
|-------|---|---|---|---|------------|
| 1 | B. Tech. (Civil -Water Resources Engineering) - BTWRE and B. Tech. (Civil – Construction Management) - BTCM. These programmes were initially launched as the Advanced Diploma in Water Resources Engineering and Advanced Diploma in Construction management. | ET-536A : Hydraulic Structure-I ET-536B/ ET-535B : Hydraulic Structure-II ET-532A :Hydrology ET-531B :Soil Science ET-531B : Soil Science | i) Energy Dissipators – A Programme on Hydraulics-Video 24 Minutes ii) Irrigation Channels Video 22 Minutes iii) Discharge Measurement in Streams -Video 20 Minutes iv) Determination of Physical & Chemical Properties of Soils-Video 26 minutes v) Determination of Moisture Content in Soils -Video 21 Minutes | Coordinated B. Tech. (Civil -Water Resources Engineering) - BTWRE Programme. Jointly written Eight Units and Edited several units/blocks of the programmes including BTCM programme | 1989-Cond. |
| 2 | Certificate in Motorcycle Service and Repair (CMSR) | NET-001 : Starter Kit NET-002 : Motorcycle Service and Maintenance NET-003 : Motorcycle Repair and | -Introduction to Service Sector -The Motorcycle -Entrepreneurship Development -Tools and Equipment -Motorcycle Servicing - Service and Maintenance Procedures -Motorcycle Repairing | Editing and Vetting of Hindi version of course material Co-ordinated the programme with Prof. Manoj Kulshrestha | 2005-2014 |

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| | | Troubleshooting | -Basic Troubleshooting of Motorcycle -General Safety and Service Tips | | |
| 3 | B.Sc. (Nautical Science) -BNS; Advance Diploma in Nautical Science - ADNS; Diploma in Nautical Science | 108 Credits worth Programmes | | Coordinated the Programme along with Dr. Ashish Agarwal who was the Co-ordinator (upto 2009 barring about 02 months when he Coordinated the programme Earlier to my taking over as the Coordinator, Prof. Gayatri Kansal Coordinated the programme. | 2006-2016 |
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13. Training programmes designed and conducted, duration and dates

| SNo. | Programme | Dates | Place | Number of Participants |
|------|-----------|-------|-------|------------------------|
| | | | | |

14. Details of Counselling sessions conducted:

| SNo. | Programme | Course | Place | Dates | Duration | Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other) |
|------|-----------|--------|-------|-------|----------|---|
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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 |
|------|---|---|--------------|
| 1. | Member | Have worked as a member in several Committees as assigned by the University relating to the Convocation, Construction and Maintenance Division, | |

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

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| | | Vigilance, Material Production and Distribution Division etc. | |
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17. Administrative position/s held in the University (even as in charge)

| SNo. | Designation | Period |
|-------------|---|---------------|
| | Project Coordinator (IGNOU-DGS Project) | 2006-2016 |
| | Project Co-coordinator (IGNOU-HHML Project) | 2005-2014 |

18. Any other contribution/information

Conceived and established a feature rich Telephone Exchange (EPABX) for IGNOU with 1500 lines expandable to 3000 lines starting from the proposal to supervision of execution and its functioning and maintenance guidance. Have been also contributing in resolving/ representing legal issues relating to the School.

Signature of Teacher /Academic**Signature of Director/ Head**