

**1. Details of the Teacher/ Academic :**

|                                  |   |
|----------------------------------|---|
| <b>Name &amp; Date of Birth</b>  | : Shashi Bhushan Sharma   |
| <b>Date of Joining in IGNOU:</b> | 16/3/1990   |
| <b>Current Designation</b>       | : Associate Professor   |
| <b>Pay Scale as on date</b>      | : 1,87,300.00(level 13A)  |
| <b>Qualifications</b>            | : M.Sc (Engineering), Phd (Engineering Science with specialisation in IT) |

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

| <b>Name of the recipient</b> | <b>Honour /Award/ Fellowship name/ membership of Professional body/ Statutory body</b> | <b>Agency name /Name of statutory body/ institution/ Apex body</b> | <b>Period</b> |
|------------------------------|--|--|---------------|
|                              |  |  |               |
|                              |  |  |               |

**3. Books/Book Chapter:**

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

| <b>SNo.</b> | <b>Name of Author1/ Editor 1, &amp; Co- author (s) / Co- editor (s) (if any)</b> | <b>Title of chapter/book</b>  | <b>Place of publication</b> | <b>Publisher</b> | <b>Year</b> | <b>Total Pages</b> | <b>ISBN No.</b> |
|-------------|--|---|-----------------------------|------------------|-------------|--------------------|-----------------|
| 1           | V.S.P. Srivastava, Shashi Bhushan , Bhupesh Khatri                               | Online Learning Support / Four decades of Distance Education in India, Reflections on Policy and Practice | New Delhi                   | Viva             | 2006        | 10                 | 81-309-0260-5   |

**4. Research Articles/Publications:**

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

|    |                           |   |   |    |    |      |           |
|----|---------------------------|---|---|----|----|------|-----------|
| 1. | 1 <sup>st</sup> Author    | Hybrid approach to energy efficient clustering for heterogeneous wireless sensor network using biography based optimization and K-means   | Preglad Elektrotechniczny (Ukrainian journal)   | 4  | 4  | 2019 | 0033-2097 |
| 2. | 2 <sup>nd</sup> Author    | A multi-objective optimization problems of clustering protocols for WSN using meta-heuristic technique                                    | Herald of advanced information technology   | 01 | 6  | 2018 | 2663-0176 |
| 3. | 1 <sup>st</sup> Author    | GA based model for distributed dynamic fault tolerant channel allocation in cellular networks   | Journal of information and operation management , Bioinfo publication USA                                     | 3  | 3  | 2012 | 0976-7754 |
| 4. | 1 <sup>st</sup> Author    | A hybrid approach to energy efficient clustering of wireless sensor networks  | Journal of technology and design in electronics apparatus   | 2  | 5  | 2018 | 2225-5818 |
| 5. | 1 <sup>st</sup> Author    | Clustering of wireless sensor network based on genetic algorithm [in Ukrainian]   | Journal of elektrotechnical and computer system   | 28 | 6  | 2018 | 2221-3805 |
| 6. | 1 <sup>st</sup> Author    | Improvement in meta-heuristic based clustering for wireless sensor network [ in Ukrainian]  | Journal of project management and development of production   | 2  | 11 | 2018 | 2222-8810 |
| 7. | 1 <sup>st</sup> Author    | Combined meta-heuristic based clustering for energy efficient routing protocols for heterogeneous wireless sensor networks [in Ukrainian] | Scientific works of the Donetsk National technical university, series: Informatics, Cybernetics and Computing | 2  | 4  | 2018 | 1996-1558 |
| 8. | 3 <sup>rd</sup> Co-author | Learning attitudes, motivation and preferences of   | Indian Journal of open learning   | 13 | 19 | 2003 | 0971-2960 |

|     |                        |  |                                 |    |   |      |           |
|-----|------------------------|--|---------------------------------|----|---|------|-----------|
|     |                        | online learners  |                                 |    |   |      |           |
| 9.  | 1 <sup>st</sup> Author | On-line learning of diplomacy ( by invitation)                               | Indian journal of open learning | 13 | 5 | 2003 | 0971-2960 |
| 10. | 1 <sup>st</sup> Author | Design and implementation of FSI( foreign service institute) (by invitation) | Indian Journal of Open learning | 13 | 6 | 2003 | 0971-2960 |

**5. Policy Documents Reports/ Mimeos:**

| SNo. | Title   | Institution/ Agency                                      | Year      |
|------|---|--|-----------|
| 1.   | DCO (Diploma in Computer in Office Management) Programme Design   | IGNOU  | 1990      |
| 2.   | Old MCA Programme guide Design  | IGNOU  | 1994      |
| 3.   | Old BCA Programme Design  | IGNOU  | 1994      |
| 4    | Coordinated the meeting for designing the syllabus of Computer Network (CS-09) and policy guidelines for book based delivery  | IGNOU  | 1997      |
| 5    | Coordinated the meeting for designing the syllabus for the third year old MCA and policy guidelines for book based approach   | SOCIS,IGNOU  | 1998      |
| 6    | Prepared policy guidelines for conducting viva-voce of MCA and BCA projects   | SOCIS, IGNOU   | 1998      |
| 7    | BIT Programme guide Design  | IGNOU  | 2000-2001 |
| 8    | Design of documents related to conducting ,theory , practical classes and monitoring of quality issues of Tele- learning centres (TLCs) (Convener of TLCs task group) | IGNOU  | 2000-2005 |
| 9    | Design of Documents for conducting online training of Indian diplomats  | Foreign Service Institute , Ministry of External Affairs | 2006-2010 |
| 10   | Policy guidelines for Credit transfer Scheme for old BCA and MCA programs   | SOCIS  | 2004-2005 |

**6. Book Review published :**

| SNo. | Author/ | Title | Name of | Volume | page | Year | ISSN |
|------|---------|-------|---------|--------|------|------|------|
|------|---------|-------|---------|--------|------|------|------|

|  | <b>Co-author (if any)</b> |  | <b>Journal</b> |  | <b>no. (s)</b> |  | <b>No</b> |
|--|---------------------------|--|----------------|--|----------------|--|-----------|
|  |                           |  |                |  |                |  |           |

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

| <b>SNo.</b> | <b>Author/ Co author (if any)</b> | <b>Title of presentation, /Talk/Lecture</b>   | <b>Name Organizing institute</b>   | <b>Conference</b>        | <b>City</b>           | <b>Date and Year</b> |
|-------------|-----------------------------------|---|--|--------------------------|-----------------------|----------------------|
| 1           | First and corresponding author    | GA based packet dropping scheme for wireless multimedia cellular Network (the paper was presented by the 3 <sup>rd</sup> co-author) | 2 <sup>nd</sup> IEEE International Symposium on wireless systems the conference on Intelligent Data Acquisition and Advanced Computing Systems Offenbourg, Germany | International Conference | Offenbourg, Germany   | 11-12 September 2014 |
| 2           | First and corresponding author    | QoS Techniques in Multimedia wireless Cellular Network  | IEEE Conference on Issues and Challenges in Intelligent Computing Technique-2014   | National Conference      | Ghaziabad, UP         | 2014                 |
| 3           | First and corresponding author    | Energy Efficient Clustering Protocols for Heterogeneous Wireless Sensor Networks; A Hybrid Approach using GA and K-means            | Second IEEE International Conference on Data Stream Mining and Processing (DSMP-2018)  | International Conference | Lvov, Ukraine         | 2018                 |
| 4           | First and corresponding author    | Increasing the Efficiency of Data Transmission in Wireless Sensor Networks  | International Scientific and Practical Internet Conference, Vinitsa, VNTU, 2018  | International Conference | Vinitsa, VNTU Ukraine | 2018                 |
| 5           | First and                         | Improving the   | 2 <sup>nd</sup> International  | International            | Odessa                | 2017                 |

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|    |                                |  |   |  |                 |                                 |
|----|--------------------------------|--|---|--|-----------------|---------------------------------|
|    | corresponding author           | Quality of Sensor Networks   | Scientific and Practical Conference, Odessa, 2017   | Conference   |                 |                                 |
| 6  | First and corresponding author | Energy Efficient Hybrid Clustering Protocols for Wireless Sensor Network Using Meta-heuristic Techniques | Sixth Ukrainian-German Conference on "Information, Culture, Techniques"                                       | International Conference                               | Ukraine         | 22 <sup>nd</sup> September 2018 |
| 7  | Single Author                  | A New Approach to Design of Assignments  | XV Annual Conferences of Asian Association of Open Universities   | International Conference                               | New Delhi       |                                 |
| 8  | Single Author                  | Program Slicing and a Literature Survey of its applications  | XXXIV Annual National Convention of Compute society of India  | National Conference                                    | Mumbai          | 1999                            |
| 9  | 2 <sup>nd</sup> Author         | Curriculum Evaluation for Employability A Case Study of IGNOU MOA Program                                | The 23 <sup>rd</sup> Annual Conference of Asian Association of Open Universities,                             | International Conference                               | Tehran Iran     | 2009                            |
| 10 | Co-authors                     | Research Direction in Mobile Computing   | National Conference on Modern Trends in Information Technology  | National Conference                                    | Delhi           | 13-14 January 2009              |
| 11 | Single Presenter               | Current research challenges in WSN   | Deptt. of CSE, JIIT   | National workshop on WSN and its applications          | Noida, UP       | 17/03/2017                      |
| 12 | Single Presenter               | Introduction to Wireless Network   | Odessa National Polytechnic university, Ukraine, Ternopil University , Ukraine and Siegen University, Germany | <b>International Summer school on Wireless Network</b> | Odessa ,Ukraine | 7/7/2011                        |
| 13 | Single presenter               | QoS in IP cellular network using   | Odessa National Polytechnic university,   | <b>International Summer school on</b>                  | Odessa ,Ukraine | 6/7/2011                        |

|    |  |  |   |  |           |                                 |
|----|--|--|---|--|-----------|---------------------------------|
|    |  | evolutionary technique   | Ukraine, Ternopil University , Ukraine and Siegen University, Germany | <b>Wireless Network</b>  |           |                                 |
| 14 | Single presenter                               | Software Tools for creating interactive multimedia for online learning | Mauritius Institute of Education, Mauritius                           | <b>International workshop on Interactive multimedia for online learning</b>  | Mauritius | 4-8 June, 2007                  |
| 15 | Single presenter (nominated by the university) | Educational Technology: Theory, Policies, Future Trends and Standards  | Netaji Subash Open University, Calcutta                               | National seminar on the Use of IT in Open and Distance Learning System of Higher Education and Mapping in the New Millennium | Calcutta  | 3 <sup>rd</sup> March, 2004     |
| 16 | Single presenter (invited talk)                | New challenges in Online Education                                     | Indian National Science Congress                                      | Science Congress   | Bangalore | 6 <sup>th</sup> January, 2003   |
| 17 | Single presenter (invited talk)                | Global Trends in E-learning  | Indian National Science Congress                                      | Science Congress   | Lucknow   | 7 <sup>th</sup> January 2002    |
| 18 | Single presenter (invited talk)                | Java- A New Computing Paradigm   | Indian National Science Congress                                      | Science Congress   | Delhi     | 5 <sup>th</sup> January 2001    |
| 19 | Single presenter (invited talk)                | Mobile computing : An Overview   | Indian National Science Congress                                      | Science congress   | Chennai   | 6 <sup>th</sup> January 1999    |
| 20 | Single presenter (invited talk)                | Internet ,java and Software Development                                | Indian National Science Congress                                      | Science Congress   | Hyderabad | 7 <sup>th</sup> January 1998    |
| 21 | Single presenter (invited talk)                | Operating system Design Trends   | Indian National Science Congress                                      | Science Congress   | Hyderabad | 5 <sup>th</sup> January 1998    |
| 22 | Participated in discussion                     | Conducting practical classes in computer courses                       | Asian Association of Open Universities                                | Satellite Round Table International Conference   | Delhi     | 23 <sup>rd</sup> February, 1995 |
| 23 | Single presenter                               | Application of Computers in Electrical                                 | Electrical Engineering Department                                     | All India Workshop on Computers in   | Delhi     | March 15-17, 1982               |

|  |  |                     |            |                                  |  |  |
|--|--|---------------------|------------|----------------------------------|--|--|
|  |  | Engineering in USSR | IIT, Delhi | Electrical Engineering Education |  |  |
|--|--|---------------------|------------|----------------------------------|--|--|

**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 |
|------|----------------------|----------------------------|----------|
|      |                      |                            |          |

**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    | Foreign Service Institute, Ministry of External Affairs Govt. Of India |        | 31/3/2006 to 31/3/2010    | Completed                      |
| 2    | Edexcel, UK  |        | January 2000 to June 2005 | Completed                      |

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

| SNo. | Name and enrolment no: | Year of registration | Year of completion/ award |
|------|------------------------|----------------------|---------------------------|
| 1.   |                        |                      |                           |
|      |                        |                      |                           |

**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     | CIT       | CIT-001 | Block-1 & Block-2                | Edited   | 2008   |

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|    |              |          |   |   |      |
|----|--------------|----------|---|---|------|
| 2  | MCA(revised) | MCS-42   | Introduction to Computer networks(Unit - 1)/Block-1             | Course Design, Writing and coordination | 2006 |
| 3  | MCA(revised) | MCS-42   | Contention based Media Access protocols(Unit-3)/ Block 2        | Course Design, Writing and coordination | 2006 |
| 4  | MCA(revised) | MCS-42   | Wireless LAN and Data Link Layer Switching(Unit -4)/ Block-2    | Course Design, Writing and coordination | 2006 |
| 5  | MCA(revised) | MCS-42   | Transport layer and Application Layer Services(Unit- 1)/Block 4 | Course Design, Writing and coordination | 2006 |
| 6  | BCA(revised) | BCS-42   | Graph Algorithm (Unit-3)/Block 2                                | Course Design, Writing and coordination | 2006 |
| 7  | BCA(revised) | BCSL-045 | Section 6(equivalent to unit)/Lab manual block                  | Course Design, Writing and coordination | 2006 |
| 8  | MCA(revised) | MCSL-016 | The Internet(unit 1)/ block-1                                   | Course Design, Writing and coordination | 2005 |
| 9  | MCA(revised) | MCSL-016 | HTML(Section 1 ,equivalent to unit) Block-2: Lab Manual         | Course Design, Writing and coordination | 2005 |
| 10 | MCA(revised) | MCSL-016 | Advanced HTML(Section 2,equivalent to unit) Block-2: Lab Manual | Course Design, Writing and coordination | 2005 |
| 11 | MCA(revised) | MCSL-016 | Java Script(Section 3 ,equivalent to unit) Block-2: Lab Manual  | Course Design, Writing and coordination | 2005 |
| 12 | MCA(revised) | MCSL-016 | VBScript(Section 4 ,equivalent to unit) Block-2: Lab Manual     | Course Design, Writing and coordination | 2005 |



|    |              |  |  |   |           |
|----|--------------|--|--|---|-----------|
| 13 | MCA(revised) | MCSL-016   | Dreamweaver<br>(Section<br>5, equivalent to<br>unit)<br>Block-2: Lab<br>Manual | Course Design,<br>Writing and<br>coordination | 2005      |
| 14 | MCA(revised) | MCS-022  | Introduction to<br>Operating<br>System(Unit<br>2)/Block 1                      | Course Design,<br>Writing and<br>coordination | 2005      |
| 15 | MCA(revised) | MCS-022  | Linux Operating<br>System(Unit<br>1)/Block 2                                   | Course Design,<br>Writing and<br>coordination | 2005      |
| 16 | MCA(revised) | MCSL-036   | Section 3(<br>equivalent to one<br>unit)                                       | Course Design,<br>Writing and<br>coordination | 2005      |
| 17 | BIT          | Multimedia<br>Web Authoring<br>(CSM-05)                          | Online Material<br>(1-unit)  | Coordinated<br>and Written                    | 2002-2003 |
| 18 | BIT          | Basic Data<br>Structures<br>(CST-103)                            | Online Material<br>(1-unit)  | Coordinated<br>and Written                    | 2002-2003 |
| 19 | ADIT         | Data<br>Communication<br>and Computer<br>Networking<br>(CST-202) | Online Material<br>(1-unit)  | Coordinated<br>and Written                    | 2002-2003 |
| 20 | ADIT         | Fundamentals<br>of Java<br>Programming<br>(CST-301)              | Online Material<br>(1-unit)  | Coordinated<br>and Written                    | 2002-2003 |
| 21 | BIT          | Quality<br>Management<br>Principles<br>(CSI-08)                  | Online Material<br>(1-unit)  | Coordinated<br>and Written                    | 2000-2001 |
| 22 | BIT          | Computer<br>Application in<br>Art & Design<br>(CSM-01)           | Online Material<br>(1-unit)  | Coordinated<br>and Written                    | 2000-2001 |
| 23 | BIT          | Multimedia<br>Principles<br>(CSM-03)                             | Online Material<br>(1-unit)  | Coordinated<br>and Written                    | 2000-2001 |

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|    |                              |  |  |   |           |
|----|------------------------------|--|--|---|-----------|
| 24 | BIT                          | Multimedia Design & authoring (CSM-04)                                 | Online Material (1-unit)   | Coordinated and Written                 | 2000-2001 |
| 25 | IGNOU North –East Initiative | IT based Community learning  | Introduction to MS-Word (Unit-1/Block-2)   | Writing (Co-author)and coordination     | 2000      |
| 26 | IGNOU North –East Initiative | IT based Community learning  | Introduction to MS –Excel (Unit-1)and Introduction to MS Powerpoint (Unit-2/Block-3) | Writing (Co-author) and coordination    | 2000      |
| 27 | BIT                          | Software Constructs and Tools (CSI-03)                                 | Online Material (1-unit)   | Coordinated and Written                 | 1999-2000 |
| 28 | BIT                          | Networking (CSI-13)  | Online Material (1-unit)   | Coordinated and Written                 | 1999-2000 |
| 29 | BIT                          | Computer Implementation Project (Computer Stream) (CSI-05)             | Online Material (1-unit)   | Coordinated and Written                 | 1999-2000 |
| 30 | BIT                          | Software Engg. Implementation project (S/W) Engg. Stream) (CSI-06)     | Online Material (1-unit)   | Coordinated and Written                 | 1999-2000 |
| 31 | BIT                          | Business information Technology (Business info. Tech. Stream) (CSI-07) | Online Material (1-unit)   | Coordinated and Written                 | 1999-2000 |
| 32 | BCA (old)                    | CS-68  | Network classification and reference model (Unit-1/Block-1)                          | Course Design, Writing and coordination | 1999      |
| 33 | BCA (old)                    | CS-68  | Data Transmission and Multiplication (Unit-2/Block-1)                                | Course Design, Writing and coordination | 1999      |
| 34 | MCA(old)                     | CS-06  | Basic Concepts (Unit-1) Block 1  | Course Design, Writing and coordination | 1995-1996 |

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|    |          |       |  |   |           |
|----|----------|-------|--|---|-----------|
| 35 | MCA(old) | CS-06 | Database Models and Its Implementations (Unit-2) Block-1                     | Course Design, Writing and coordination | 1995-1996 |
| 36 | MCA(old) | CS-06 | File Organisation for Conventional DBMS (Unit-3) Block-1                     | Course Design, Writing and coordination | 1995-1996 |
| 37 | MCA(old) | CS-06 | Relational Model (Unit-1) Block-2  | Course Design, Writing and coordination | 1995-1996 |
| 38 | MCA(old) | CS-06 | Normalization (Unit-2) Block-2   | Course Design, Writing and coordination | 1995-1996 |
| 39 | MCA(old) | CS-06 | Distributed Databases (Unit-4) Block-2                                       | Course Design, Writing and coordination | 1995-1996 |
| 40 | MCA(old) | CS-06 | Introduction to Object Oriented Database Management Systems (Unit-1) Block-3 | Course Design, Writing and coordination | 1995-1996 |
| 41 | Old MCA  | CS-02 | Basics of Software Engineering (Unit-1) Block-5                              | Course Design, Writing and coordination | 1996      |
| 42 | Old MCA  | CS-02 | Qualities of Software and Software Engineering Principles (Unit-2) Block-5   | Course Design, Writing and coordination | 1996      |
| 43 | Old MCA  | CS-02 | Computer Aided Software Engineering (Unit-6) Block-5                         | Course Design, Writing and coordination | 1996      |
| 44 | Old MCA  | CS-04 | Sorting Techniques-I (Unit-2) Block-6  | Course Design, Writing and coordination | 1995      |
| 45 | Old MCA  | CS-02 | Introduction to Programming Language Concepts (unit-1) Block-1               | Course Design, Writing and coordination | 1994      |

|    |         |       |  |   |      |
|----|---------|-------|--|---|------|
| 46 | Old MCA | CS-02 | Introduction to Assembler (Unit-2) Block-1 | Course Design, Writing and coordination | 1994 |
| 47 | Old MCA | CS-02 | Introduction to Compiler (Unit-3) Block-1  | Course Design, Writing and coordination | 1994 |

**13. Training programmes designed and conducted, duration and dates**

| SNo. | Programme   | Dates   | Place            | Number of Participants |
|------|---|---|------------------|------------------------|
| 1    | International workshop on Interactive Multimedia in Distance learning | 9 <sup>th</sup> Nov-25 <sup>th</sup> Nov 2004 | IGNOU, New Delhi | 20                     |
| 2    | National workshop on Interactive Multimedia in distance learning      | 2004  | IGNOU, New Delhi | 25                     |
|      | MATLAB as a Research Tool( Co-coordinator)                            | 4-5 Dec, 2012                                 | IGNOU            | 30                     |

**14.Details of Counselling sessions conducted:**

|   |         |                                      |               |            |        |                   |
|---|---------|--------------------------------------|---------------|------------|--------|-------------------|
| 1 | MCA     | TCP Protocol                         | EMP C (IGNOU) | 28-5-2019  | 1 hour | Radio Counselling |
| 2 | MCA&BCA | Routing Algorithms                   | EMP C (IGNOU) | 27-3-2018  | 1 hour | Radio Counselling |
| 3 | MCA&BCA | Divide and Conquer Technique-1       | EMP C (IGNOU) | 22-5-2018  | 1 hour | Radio Counselling |
| 4 | MCA&BCA | Divide and Conquer Technique-2       | EMP C (IGNOU) | 14-8-2018  | 1 hour | Radio Counselling |
| 5 | MCA&BCA | Important Technique to solve problem | EMP C (IGNOU) | 25-9-2018  | 1 hour | Radio Counselling |
| 6 | MCA     | Database Security                    | EMP C (IGNOU) | 27-11-2018 | 1 hour | Radio Counselling |
| 7 | General | Admission 2018                       | EMP C (IGNOU) | 31-8-2018  | 1 hour | Radio Counselling |

|           |               |   |              |            |                   |                     |
|-----------|---------------|---|--------------|------------|-------------------|---------------------|
|           |               |   | OU)          |            |                   |                     |
| <b>8</b>  | BCA           | (Divide and Conquer Technique) (BCS-42)         | EMPC (IGNOU) | 14-8-2018  | 1 hour            | Radio Counselling   |
| <b>9</b>  | MCA           | Enhanced Database Model                         | EMPC (IGNOU) | 3-10-2017  | 1 hour            | Radio Counselling   |
| <b>10</b> | MCA           | Important topics in Advanced DBMS               | EMPC (IGNOU) | 22-8-2017  | 1 hour            | Radio Counselling   |
| <b>11</b> | MCA           | Advanced Deseret Mathematics                    | EMPC (IGNOU) | 25-7-2017  | 1 hour            | Radio Counselling   |
| <b>12</b> | BCA           | For TEE (Practical) for Algorithm design lab    | EMPC (IGNOU) | 30-5-2017  | 1 hour            | Radio Counselling   |
| <b>13</b> | MCA           | Data ware Housing                               | EMPC (IGNOU) | 28-11-2017 | 1 hour            | Radio Counselling   |
| <b>14</b> | PHD           | RCSE-008  | SOCIS        | 15-7-2017  | 2 hour            | <b>Face to Face</b> |
| <b>15</b> | PHD           | RCSE-008  | SOCIS        | 18-7-2017  | 2 hour            | <b>Face to Face</b> |
| <b>16</b> | PHD           | RCSE-008  | SOCIS        | 19-7-2017  | 2 hour            | <b>Face to Face</b> |
| <b>17</b> | PHD           | RCS-001   | SOCIS        | 21-7-2017  | 1 hour 30 minutes | <b>Face to Face</b> |
| <b>18</b> | PHD           | RCS-001   | SOCIS        | 22-7-2017  | 1 hour 30 minutes | <b>Face to Face</b> |
| <b>19</b> | PHD           | RCS-001   | SOCIS        | 25-7-2017  | 1 hour 30 minutes | <b>Face to Face</b> |
| <b>20</b> | BCA (Revised) | Sorting technique (BCS-042)                     | EMPC (IGNOU) | 2012       | 1 hour            | Teleconferencing    |
| <b>21</b> | General       | IT Infrastructure Planning and Management       | EMPC (IGNOU) | 16-8-2011  | 1 hour            | Radio Counselling   |
| <b>22</b> | General       | Windows 7 Operating System                      | EMPC (IGNOU) | 6-7-2010   | 1 hour            | Radio Counselling   |
| <b>23</b> | MCA           | Cloud Computing                                 | EMPC (IGNOU) | 4-5-2010   | 1 hour            | Radio Counselling   |
| <b>24</b> | General       | Enterprise Resource Planning (ERP)              | EMPC (IGNOU) | 3-8-2008   | 1 hour            | Radio Counselling   |
| <b>25</b> | MCA (Revised) | Numerical Problems in Computer Network (MCS-42) | EMPC (IGNOU) | 2007       | 1 hour            | Teleconferencing    |

|    |                             |   |  |           |         |                  |
|----|-----------------------------|---|--|-----------|---------|------------------|
| 26 | MCA<br>(Revised)            | IEEE Standards<br>Part – 1 (MCS-42)   | EMPC<br>(IGNOU)                            | 2007      | 1 hour  | Teleconferencing |
| 27 | MCA<br>(Revised)            | IEEE Standards<br>Part-II (MCS-42)  | EMPC<br>(IGNOU)                            | 2007      | 1 hour  | Teleconferencing |
| 28 | MCA<br>(Revised)            | Network of OSI<br>Model (MCS-42)  | EMPC<br>(IGNOU)                            | 2007      | 1 hour  | Teleconferencing |
|    | BCA<br>(Revised)            | An Introduction to<br>Trees data<br>Structure   | EMPC<br>(IGNOU)                            | 2007      | 1 hour  | Teleconferencing |
| 30 | BCA<br>(Revised)            | An Introduction to<br>Trees data<br>Structure   | EMPC<br>(IGNOU)                            | 2007      | 1 hour  | Teleconferencing |
| 31 | BCA<br>(Revised)            | Design and<br>Analysis of<br>Algorithm 14-04-<br>2013 (11:00-<br>11:45)   | EMPC<br>(IGNOU)                            | 2007      | 1 hour  | Teleconferencing |
| 32 | BCA<br>(Revised)            | Design and<br>Analysis of<br>Algorithm 14-04-<br>2013 (11:00-<br>11:45)   | EMPC<br>(IGNOU)                            | 2007      | 1 hour  | Teleconferencing |
| 33 | BIT                         | Stack Data<br>Structure   | EMPC<br>(IGNOU)                            | 2006      | 1 hour  | Teleconferencing |
| 34 | MCA &<br>BCA                | Data Structure ,<br>DBMS , Computer<br>Network ,<br>Advance<br>Computer<br>Architecture &<br>Computer<br>organization | INSDOC<br>Study<br>Centre<br>Under<br>RC-1 | 2001-2005 | 5 years | Face to Face     |
| 35 | MCA &<br>BCA Lab<br>Session | Date Structure ,<br>Computer<br>Network   | INSDOC<br>Study<br>centre<br>Under<br>RC-1 | 2001-2005 | 5 Years | Face to Face     |
| 36 | BIT                         | Java Security (CSI-<br>24)  | EMPC<br>(IGNOU)                            | 2003      | 1 hour  | Teleconferencing |
| 37 | BIT                         | Internet<br>Technologies<br>(Introduction)<br>Part-1 (CST-301)  | EMPC<br>(IGNOU)                            | 2002      | 1 hour  | Teleconferencing |
| 38 | BIT                         | Internet<br>Technologies<br>(Introduction)<br>Part-1 (CST-301)  | EMPC<br>(IGNOU)                            | 2002      | 1 hour  | Teleconferencing |
| 39 | BIT                         | Internet<br>Technologies  | EMPC<br>(IGNOU)                            | 2002      | 1 hour  | Teleconferencing |

|  |     |   |              |      |        |                  |
|--|-----|---|--------------|------|--------|------------------|
|  |     | (Introduction)<br>Part-1 (CST-301)                  |              |      |        |                  |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented programming in Java Part-2 (CSI-24) | EMPC (IGNOU) | 2001 | 1 hour | Teleconferencing |

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|--|-----------|---|-------------------------|-----------|---------|------------------|
|  | MCA & BCA | Data Structure ,<br>DBMS , Computer<br>Network ,<br>Advance<br>Computer<br>Architecture &<br>Computer<br>organization | Delhi<br>Flying<br>Club | 1996-2000 | 5 Years | Face to Face     |
|  | BIT       | Quality<br>Management<br>Principles (CSI-08)<br>– (Part-1)  | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |
|  | BIT       | Data<br>Communications<br>System Pt-1 (CST-<br>202)   | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |
|  | BIT       | Data<br>Communications<br>System Pt-2 (CST-<br>202 + CSI-09)  | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |
|  | BIT       | Computer<br>network Part-1<br>(CSI-09)  | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |
|  | BIT       | Quality<br>management<br>Principles Part-2<br>(CSI-08)  | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |
|  | BIT       | Basic of Database<br>Management<br>System, DBMS<br>(CSI-20)   | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |
|  | BIT       | Queue Data<br>Structure, Data<br>Structures &<br>Algorithms (CSI-<br>103)   | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |
|  | BIT       | Data<br>Communication<br>Part-1,<br>Communication<br>Technology (CSI-<br>09)  | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |
|  | BIT       | Data<br>Communication<br>Part -2<br>Networking (CSI-<br>13)   | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |
|  | BIT       | Computer<br>Network,<br>networking (CSI-<br>13)   | EMPC<br>(IGNOU)         | 2000      | 1 hour  | Teleconferencing |



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|--|-----|--|--------------|------|--------|------------------|
|  | BIT | BI Adit OSI Model, networking (CSI-13)   | EMPC (IGNOU) | 2000 | 1 hour | Teleconferencing |
|  | BIT | The Basic of Internet, (CSI-13)  | EMPC (IGNOU) | 2000 | 1 hour | Teleconferencing |
|  | BIT | TCP-IP Model (CST-202)   | EMPC (IGNOU) | 2000 | 1 hour | Teleconferencing |
|  | BIT | Internet protocol-1 (CST-202)  | EMPC (IGNOU) | 2000 | 1 hour | Teleconferencing |
|  | BIT | Internet Protocol-2 (CST -202)   | EMPC (IGNOU) | 2000 | 1 hour | Teleconferencing |
|  | BIT | Benefit of Networks (CSI-13)   | EMPC (IGNOU) | 2000 | 1 hour | Teleconferencing |
|  | BIT | Assignment (CSI-04)  | EMPC (IGNOU) | 2000 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented Programming in Java Part-1, Software Constructs & Tools (CSI-03) | EMPC (IGNOU) | 1999 | 1 hour | Teleconferencing |
|  | BIT | Stack Application , Data Structures & Algorithms (CST-103)                       | EMPC (IGNOU) | 1999 | 1 hour | Teleconferencing |
|  | BIT | Recursion, Data Structure & Algorithms (CST-103)                                 | EMPC (IGNOU) | 1999 | 1 hour | Teleconferencing |
|  | BIT | Performance of a Computer System Part-1 , Computer Platforms (CSI-01)            | EMPC (IGNOU) | 1999 | 1 hour | Teleconferencing |
|  | BIT | Object Oriented Programming in Java Part-2, Software Constructs & Tools (CSI-03) | EMPC (IGNOU) | 1999 | 1 hour | Teleconferencing |
|  | BIT | Java Programming Language Software Constructs (CSI-03)                           | EMPC (IGNOU) | 1999 | 1 hour | Teleconferencing |
|  | BIT | Java Programming language part -2), Software Constructs &                        | EMPC (IGNOU) | 1999 | 1 hour | Teleconferencing |

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

|  |                         |  |                                   |           |        |                   |
|--|-------------------------|--|-----------------------------------|-----------|--------|-------------------|
|  |                         | Tools (CSI-03)   |                                   |           |        |                   |
|  | BIT                     | Introduction to Array & Strings, Software Constructs & Tools (CSI-03)              | EMPC (IGNOU)                      | 1999      | 1 hour | Teleconferencing  |
|  | BIT                     | Introduction to Data Structure & Algorithms, Data Structure & Algorithms (CST-103) | EMPC (IGNOU)                      | 1999      | 1 hour | Teleconferencing  |
|  | Old MCA , Old BCA & CIC | Conducted Seceral Radio Counselling  | EMPC (IGNOU)                      | 1994-1999 | 1 hour | Radio Counselling |
|  | OLD MCA                 | Number Representation (MCS-12)   | EMPC (IGNOU)                      | 1999      | 1 hour | Teleconferencing  |
|  | OLD BCA                 | Network Technology and Devices (CS-68)   | EMPC (IGNOU)                      | 1998      | 1 hour | Teleconferencing  |
|  | OLD MCA                 | Microprocessor (MCS-12)  | EMPC (IGNOU)                      | 1998      | 1 hour | Teleconferencing  |
|  | OLD MCA                 | Pipelining, (MCS-12)   | EMPC (IGNOU)                      | 1998      | 1 hour | Teleconferencing  |
|  | BIT                     | FDDI (CS-09)   | EMPC (IGNOU)                      | 1998      | 1 hour | Teleconferencing  |
|  | General Talk            | Participated in two panel discussion   | All India Radio station New Delhi | 1998      | 1 hour | Radio Counselling |
|  | OLD MCA                 | Database System Architecture (CS-06)   | EMPC (IGNOU)                      | 1997      | 1 hour | Teleconferencing  |

**14. Details of Patents granted (if any):**

**15. Contribution to IGNOU's corporate life:**

| SNo. | Chairperson/ Member of Committee | Name of the Committee | Date/ period |
|------|----------------------------------|-----------------------|--------------|
| 1.   |                                  |                       |              |

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

| SNo. | Designation | Period                |
|------|-------------|-----------------------|
| 1    | Director    | 1.02.2012 to 31.01.15 |

|          |                          |                                 |
|----------|--------------------------|---------------------------------|
| <b>2</b> | <b>Reader In- charge</b> | <b>16.03.2007 to 15.03.2008</b> |
|----------|--------------------------|---------------------------------|

**17. Any other contribution/information**

- Attended a meeting to explore the collaboration between IGNOU and Capital Normal University, **Beijing, China** from 1<sup>st</sup> march 2006 to 5<sup>th</sup> march 2006
- Member of the expert committee constituted by DEC(distance education council) to visit Sridhar University Pilani on 6<sup>th</sup> and 7<sup>th</sup> December 2012
- 
- Member of the expert committee constituted by DEC(distance education council) to visit Bhoj Open University (M.P)
- Member of the expert committee constituted by DEC(distance education council) to visit Manonmaniam Sundaram University, Tirunelveli (T.N) on 17<sup>th</sup> and 18<sup>th</sup> January 2013
- Co-coordinated and Participated in a one-day International Workshop on “How to Write for and Published in Journals and Publish Manuscripts” organized by SOCIS, IGNOU in collaboration with Springer , 25<sup>th</sup> January, 2013 at Convention Centre, IGNOU, New Delhi.
- Programme Coordinator of CIT since Aug 2018.
- Programme Coordinator of BIT from March 2000 to July 2007
- **Introduced weekly newsletter for BIT students**
- Programme Coordinator of BCA for the period of Aug 2015 to July 2016.
- Co-Coordinator of old BCA & MCA Programmes between 1994 -1999
- Conducted orientation programs for BIT program at Ahmadabad, Bangalore and Calcutta.
- Convenor Tele-learning centres (TLCs) Task group between 2001 to 2004
- Coordinated establishment of TLCs at regional centres : Delhi-1,Delhi-II, Ahmadabad, Patna, Agartalla, Lucknow , Shimla, Pune, Chennai and Shillong
- Conducted orientation programs for old BCA and MCA students at Ahmadabad, Bangalore, Cochin, Chennai, Bhubaneswar, Calcutta , Delhi and Shimla in 1996 and 1998
- List of recorded Video Lectures broadcast through Gyan Darshan channel for BIT and sent to the TLCs in form of CDs

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

| <b>Sl. No.</b> | <b>Date of Records</b> | <b>Title</b>   |
|----------------|------------------------|--|
| 1              | 02-6-2000              | Solution to the 2 <sup>nd</sup> Mock Session                       |
| 2              | 05-7-2000              | 3 <sup>rd</sup> Semester courses: An overview (Computer education) |
| 3              | 13-7-2000              | Quality management principles                                      |
| 4              | 19-9-2000              | Data Communication System PT .I                                    |
| 5              | 19-9-2000              | Data Communication System PT .II                                   |
| 6              | 19-9-2000              | Object Oriented Programming in Java PT .I                          |
| 7              | 19-9-2000              | Object Oriented Programming in Java PT.II                          |
| 8              | 19-9-2000              | Computer Network PT.I  |
| 9              | 19-9-2000              | Computer Network PT.II   |
| 10             | 19-9-2000              | Performance of a computer PT.I                                     |
| 11             | 19-9-2000              | Performance of a computer PT.II                                    |
| 12             | 19-9-2000              | Programming in Java Language PT.I                                  |
| 13             | 19-9-2000              | Programming in Java Language PT.II                                 |
| 14             | 19-9-2000              | Quality Management Principles PT.I (Phase-I)                       |
| 15             | 19-9-2000              | Quality Management Principles PT.II (Phase-I)                      |
| 16             | 19-9-2000              | Quality Management Principles PT.I (Phase-III)                     |
| 17             | 19-9-2000              | Quality Management Principles PT.II (Phase-III)                    |
| 18             | 19-9-2000              | Internet Technologies (Introduction) PT.I                          |
| 19             | 25-9-2000              | Internet Technologies (Introduction) PT.II                         |
| 20             | 25-9-2000              | Internet Technologies (HTML Basics) PT.I                           |
| 21             | 25-9-2000              | Internet Technologies (HTML Basics) PT.I                           |