

# CURRICULUM VITAE

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## Personal Data:

- Date of birth: 13/07/1983
- Marital status : Married
- Home Address: 42 Shamal Sina Street, Zahraa El Maadi, Cairo, Egypt.
- Work Address: Faculty of Pharmacy, Cairo University 23 Kasr Al-Aini Street, Cairo 11562; ECU 14 Abou Ghazalh, Mansheya El-Tahrir, Ain Shams, Cairo 4541312, Egypt.

## Educational Degrees:

- **PhD degree in Pharmaceutical Sciences (Biochemistry)**, Faculty of Pharmacy, Cairo University (2014 - 2016).  
Thesis title: “**MicroRNA expression as a predictor of the success of pegylated interferon-ribavirin therapy against chronic Hepatitis C in Egyptian Patients**”.
- **Master degree in Pharmaceutical Sciences (Biochemistry)**, Faculty of Pharmacy, Cairo University (2007 - 2013).  
Thesis title: “**Effect of angiotensin-converting enzyme inhibition and angiotensin receptor blockade on diabetic rat kidney**”.
- **Bachelor Degree in Pharmaceutical Sciences**, Faculty of Pharmacy, Cairo University (May 2005) with an overall grade of “**Excellent with honors**” and ranked the **4th**.

## Academic and Work Experience:

### Full-time

- **Associate Professor and Head of Biochemistry Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University** (September 2022 till now).
- **Associate Professor of Biochemistry, Biochemistry Department, Faculty of Pharmacy, Cairo University** (November 2021 to August 2022).

- Lecturer of Biochemistry, Biochemistry Department, **Faculty of Pharmacy, Cairo University** (September 2016 to October 2021).
- Assistant Lecturer of Biochemistry, Biochemistry Department, **Faculty of Pharmacy, Cairo University** (February 2014 to August 2016).
- Teaching Assistant of Biochemistry, Biochemistry Department, **Faculty of Pharmacy, Cairo University** (October 2005 to February 2014).

### Part-time

- **Faculty of Pharmacy, Misr International University (MIU)** (Fall 2017/2018 to Summer 2021/2022).
- **Faculty of Pharmacy and Drug Technology, Egyptian Chinese University** (Spring 2021/2022).
- **Faculty of Pharmacy, Future University in Egypt** (Fall 2021/ 2022).
- **Faculty of Pharmacy, October 6 University** (Fall 2020/2021).
- **Faculty of Pharmacy, Heliopolis University for Sustainable Development** (Spring 2016/2017 to Spring 2020/2021).

### Teaching:

#### 1) Faculty of Pharmacy, Cairo University

##### Undergraduate

- **Course coordinator** of **Biochemistry-2** course for the third-year students of the General Program (Spring 2021/2022).
- A teaching member of **Biochemistry-1, Biochemistry-2, Clinical Biochemistry and Molecular Biology and Clinical Nutrition** courses for the students of the General Pharmacy Program (2016 - 2022).
- A teaching member of **Clinical Biochemistry and Clinical Nutrition** courses for the students of the Clinical Pharmacy Program (2016 -2022).

##### Postgraduate

- **Course coordinator** of **Clinical Nutrition** course for the postgraduate "Master" students (Biochemistry) (Spring 2021/2022).
- **Course coordinator** of **Laboratory Analysis** course for postgraduate Hospital Pharmacy Diploma students (2019 - 2022).
- A teaching member of **Lab Techniques** and **Clinical Nutrition** courses for the postgraduate "Master" students (Biochemistry) (2016 - 2022).
- A teaching member of **Nutrition in Cancer and Neurodegenerative Diseases** and **Nutrition in ICU** courses for the postgraduate **Clinical Nutrition Diploma** students (Fall 2020/2021).
- A teaching member of **Advanced Biochemistry, Chemical Pathology,** and **Clinical Nutrition** courses for the postgraduate Biochemistry Diploma students (2017 - 2021).

## 2) Faculty of Pharmacy and Drug Technology, Egyptian Chinese University:

- **Course coordinator** of **Biochemistry I** course for the second-year Pharm D students (Spring 2021/2022, 2022/2023).
- **Course coordinator** of **Biochemistry II** course for the third-year Pharm D students (Fall 2022/2023).
- **Course coordinator** of **Cell Biology** course for the first-year Pharm D students (Spring 2022/2023).

## 3) Faculty of Pharmacy, Misr International University (MIU):

- A teaching member of **Biochemistry-1 and Biochemistry-2** courses for the second and third-year students (Spring 2017/2018 to Summer 2021/2022).
- **Course coordinator** of **Cell Biology** course for the first-year Pharm D clinical students (Spring 2021/2022).
- **Course coordinator** of **Clinical Nutrition** course for the fifth-year students (Fall 2017/2018 to Summer 2020/2021).
- **Course coordinator** of **Clinical Biochemistry** course for the fourth-year students (Summer 2018/2019, Summer 2021/2022).
- A teaching member of **Biology** course for the first-year students (Summer 2017/2018, Fall 2018/2019).

## 4) Faculty of Pharmacy, Future University:

- A teaching member of **Advanced Biochemistry, Chemical Pathology, and Biochemical Methods and Techniques** courses for the **postgraduate** Master students (Biochemistry) (Fall 2021/2022).

## 5) Faculty of Pharmacy, October 6 University:

- A teaching member of **Clinical Biochemistry** course for the fourth-year students (Fall 2020/2021).

## 6) Faculty of Pharmacy, Heliopolis University:

- A teaching member of **Clinical Biochemistry** course for the fourth-year students (Spring 2016/2017 to Spring 2020/2021).

## Online Teaching

- Make interactive online sessions for undergraduate and postgraduate students using ZOOM, Blackboard, Microsoft teams, Google Meet and Big Blue Button.

## Administrative and Faculty Activities:

- **Assistant of the Vice Dean of Education and Student Affairs**, Faculty of Pharmacy, Cairo University (2016 - 2021).
- **Faculty coordinator of "Youth Care and Student Activities"** at Cairo University (2018 - 2021).
- Member of "Precautionary Measures for COVID-19 Committee" (2019/2020).
- Academic Advisor for Clinical Pharmacy Program students, Faculty of Pharmacy, Cairo University (2016 - 2022).
- Academic Advisor for Pharm D students, Faculty of Pharmacy, Cairo University (2019 - 2022).
- Member of the "Academic Support Committee" for General Program students, Faculty of Pharmacy, Cairo University (2016 - 2020).
- Member of "Crisis and Disaster Committee" of the Faculty of Pharmacy, Cairo University (2016 - 2022).
- Member of the "Instruments Committee" and "Biochemistry Department Research Plan Committee" in Biochemistry Department, Faculty of Pharmacy, Cairo University (2016 - 2022).
- Participation in the duties of examination and Clinical Pharmacy Program Exam Control in Faculty of Pharmacy, Cairo University.
- Participation in the preparation of the annual report and the annual conference and processing of quality files for Biochemistry Department, Faculty of Pharmacy, Cairo University.

## Scientific Publications:

**Published 27 international publications (Web of Science).**

***h*-index (Scopus)= 13**

***i*10-index= 14**

**Number of citations (Scopus)=436 (till June 2023)**

1. Motawi TK, El-Maraghy SA, **Senousy MA**. Angiotensin-converting enzyme inhibition and angiotensin AT1 receptor blockade downregulate angiotensin-converting enzyme expression and attenuate renal injury in streptozotocin-induced diabetic rats. *J Biochem Mol Toxicol*. **2013** Jul;27(7):378-87.
2. Motawi TK, Shaker OG, El-Maraghy SA, **Senousy MA**. Serum MicroRNAs as Potential Biomarkers for Early Diagnosis of Hepatitis C Virus-Related Hepatocellular Carcinoma in Egyptian Patients. *PLoS One*. **2015** Sep 9;10(9):e0137706.
3. Motawi TK, Shaker OG, El-Maraghy SA, **Senousy MA**. Serum interferon-related microRNAs as biomarkers to predict the response to interferon therapy in chronic hepatitis C genotype 4. *PLoS One*. **2015** Mar 19;10(3):e0120794.

4. Shaker OG, **Senousy MA**. Serum microRNAs as predictors for liver fibrosis staging in hepatitis C virus-associated chronic liver disease patients. *J Viral Hepat.* **2017** Aug; 24(8):636-644.
5. Shaker OG, **Senousy MA**, Elbaz EM. Association of rs6983267 at 8q24, HULC rs7763881 polymorphisms and serum lncRNAs CCAT2 and HULC with colorectal cancer in Egyptian patients. *Sci Rep.* **2017** Nov 24;7(1):16246.
6. Elbaz EM, **Senousy MA**, El-Tanbouly DM, Sayed RH. Neuroprotective effect of linagliptin against cuprizone-induced demyelination and behavioural dysfunction in mice: A pivotal role of AMPK/SIRT1 and JAK2/STAT3/NF- $\kappa$ B signalling pathway modulation. *Toxicol Appl Pharmacol.* **2018** Jun 1. pii: S0041-008X(18)30246-1.
7. Shaker OG, **Senousy MA**. Association of SNP-SNP Interactions Between RANKL, OPG, CHI3L1, and VDR Genes With Breast Cancer Risk in Egyptian Women. *Clin Breast Cancer.* **2019** Feb;19(1):e220-e238.
8. Saad MA, El-Sahar AE, Sayed RH, Elbaz EM, Helmy HS, **Senousy MA**. Venlafaxine Mitigates Depressive-Like Behavior in Ovariectomized Rats by Activating the EPO/EPOR/JAK2 Signaling Pathway and Increasing the Serum Estradiol Level. *Neurotherapeutics.* **2019** Apr;16(2):404-415.
9. **Senousy MA**, Helmy HS, Fathy N, Shaker OG, Ayeldeen GM. Association of MTMR3 rs12537 at miR-181a binding site with rheumatoid arthritis and systemic lupus erythematosus risk in Egyptian patients. *Sci Rep.* **2019** Aug 23;9(1):12299.
10. **Senousy MA**, El-Sahar AE, Sayed RH, Saad MA, Elbaz EM. Aberrations of miR-126-3p, miR-181a and sirtuin1 network mediate Di-(2-ethylhexyl) phthalate-induced testicular damage in rats: The protective role of hesperidin. Helmy HS, *Toxicology.* **2020** Mar 30;433-434:152406.
11. Abd-Elmawla MA, Hassan M, Elsabagh YA, Alnaggar ARLR, **Senousy MA**. Deregulation of long noncoding RNAs ANCR, TINCR, HOTTIP and SPRY4-IT1 in plasma of systemic sclerosis patients: SPRY4-IT1 as a novel biomarker of scleroderma and its subtypes. *Cytokine.* **2020** May 13;133:155124.
12. **Senousy MA**, Shaker OG, Sayed NH, Fathy N, Kortam MA. LncRNA GAS5 and miR-137 Polymorphisms and Expression are Associated with Multiple Sclerosis Risk: Mechanistic Insights and Potential Clinical Impact. *ACS Chem Neurosci.* **2020** Jun 3;11(11):1651-1660.
13. **Senousy MA**, El-Abd AM, Abdel-Malek RR, Rizk SM. Circulating long non-coding RNAs HOTAIR, Linc-p21, GAS5 and XIST expression profiles in diffuse large B-cell lymphoma: association with R-CHOP responsiveness. *Sci Rep.* **2021** Jan 22;11(1):2095.
14. Arab HH, Eid AH, Mahmoud AM, **Senousy MA**. Linagliptin mitigates experimental inflammatory bowel disease in rats by targeting inflammatory and redox signaling. *Life Sci.* **2021** May 15;273:119295.
15. Radwan AF, Shaker OG, El-Boghdady NA, **Senousy MA**. Association of MALAT1 and PVT1 Variants, Expression Profiles and Target miRNA-101 and miRNA-186 with Colorectal Cancer: Correlation with Epithelial-Mesenchymal Transition. *Int. J. Mol. Sci.* **2021**, 22(11): 6147.
16. Fathi D, Abulsoud AI, Saad MA, Nassar NN, Maksimos MM, Rizk SM, **Senousy MA**. Agomelatine attenuates alcohol craving and withdrawal symptoms by modulating the Notch1 signaling pathway in rats. *Life Sci.* **2021**; 284: 11904.

17. Motawi TK, Shaker OG, Hassanin SO, Ibrahim SG, **Senousy MA**. Genetic and epigenetic control on clock genes in multiple sclerosis. *J Genet Genomics*. 2022 Jan;49(1):74-76.
18. Abdelazim SA, Shaker OG, Aly YAH, **Senousy MA**. Uncovering serum placental-related non-coding RNAs as possible biomarkers of preeclampsia risk, onset and severity revealed MALAT-1, miR-363 and miR-17. *Sci Rep*. 2022 Jan 24;12(1):1249.
19. **Senousy MA**, Hanafy ME, Shehata N, Rizk SM. Erythropoietin and Bacillus Calmette-Guérin Vaccination Mitigate 3-Nitropropionic Acid-Induced Huntington-like Disease in Rats by Modulating the PI3K/Akt/mTOR/P70S6K Pathway and Enhancing the Autophagy. *ACS Chem Neurosci*. 2022 Mar 16;13(6):721-732.
20. Habib SA, Kamal MM, El-Maraghy SA, **Senousy MA**. Exendin-4 enhances osteogenic differentiation of adipose tissue mesenchymal stem cells through the receptor activator of nuclear factor-kappa B and osteoprotegerin signaling pathway. *J Cell Biochem*. 2022 May;123(5):906-920.21.
21. Motawi TK, Al-Kady RH, Abdelraouf SM, **Senousy MA**. Empagliflozin alleviates endoplasmic reticulum stress and augments autophagy in rotenone-induced Parkinson's disease in rats: Targeting the GRP78/PERK/eIF2 $\alpha$ /CHOP pathway and miR-211-5p. *Chem Biol Interact*. 2022 Aug 1;362:110002.
22. Motawi TK, El-Maraghy SA, Sabry D, Nady OM, **Senousy MA**. Cromolyn chitosan nanoparticles reverse the DNA methylation of RASSF1A and p16 genes and mitigate DNMT1 and METTL3 expression in breast cancer cell line and tumor xenograft model in mice. *Chem Biol Interact*. 2022 Sep 25;365:110094.
23. Taha M, Eldemerdash OM, Elshaffei IM, Yousef EM, **Senousy MA**. Dexmedetomidine Attenuates Methotrexate-Induced Neurotoxicity and Memory Deficits in Rats through Improving Hippocampal Neurogenesis: The Role of miR-15a/ROCK-1/ERK1/2/CREB/BDNF Pathway Modulation. *Int J Mol Sci*. 2023 Jan 1;24(1):766.
24. Elsayed OM, Abdelazim SA, Darwish HA, Shaker OG, **Senousy MA**. Association of LncRNA-PAX8-AS1 and LAIR-2 polymorphisms along with their expression with clinical and subclinical hypothyroidism. *Sci Rep*. 2023 Jan 2;13(1):6.
25. Motawi TK, Al-Kady RH, **Senousy MA**, Abdelraouf SM. Repaglinide Elicits a Neuroprotective Effect in Rotenone-Induced Parkinson's Disease in Rats: Emphasis on Targeting the DREAM-ER Stress BiP/ATF6/CHOP Trajectory and Activation of Mitophagy. *ACS Chem Neurosci*. 2023 Jan 4;14(1):180-194.
26. Taha M, Eldemerdash OM, Elshaffei IM, Yousef EM, Soliman AS, **Senousy MA**. Apigenin Attenuates Hippocampal Microglial Activation and Restores Cognitive Function in Methotrexate-Treated Rats: Targeting the miR-15a/ROCK-1/ERK1/2 Pathway. *Mol Neurobiol*. 2023 Jul;60(7):3770-3787
27. Abdelmaksoud NM, Abulsoud AI, Abdelghany TM, Elshaer SS, Rizk SM, **Senousy MA**. Mitochondrial remodeling in colorectal cancer initiation, progression, metastasis, and therapy: A review. *Pathol Res Pract*. 2023 Jun;246:154509.

## Master and PhD Thesis Supervision:

**Total number of thesis supervision= 16.**

Participating in supervision on **9 master students** and **7 PhD students** at the Biochemistry department, Faculty of Pharmacy, Cairo University.

## Scientific Membership

- **Assistant member at Cancer Epigenetic Society (CES) from December 2017 (I.D.1470).**

## Research Projects:

- 1- **“Role of long non-coding RNAs Signature in colorectal cancer” (Grant number 2017-181, funded by Cairo University 2019-2021, finished).**
- 2- **“Towards early diagnosis, staging and prognosis of colorectal cancer in Egyptian patients: Epitranscriptomic analysis of N6-methyladenosine RNA methylation machinery using in vivo and in vitro models” (Grant number MFK22HS-08, funded by British University in Cairo, February 2023 to February 2024, in progress).**

## Scientific Conferences:

1. Presented a **“Poster”** on the 3<sup>rd</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University “Good Pharmacy Practice”, April 25<sup>th</sup>-26<sup>th</sup>, 2012 under the title of **“Possible Protective Mechanisms Against Renal Damage in STZ-Induced Diabetic Rats”, 2012.**
2. Attended the 5<sup>th</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University “Pharmacy at the Cutting-edge: Facing Future Challenges”, April 23<sup>th</sup>-24<sup>th</sup>, **2014.**
3. Organized and actively participated in the 6<sup>th</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University “2020 Vision of Pharmacy in Egypt “, April 25<sup>th</sup>-26<sup>th</sup>, **2015.**
4. Organized the 8<sup>th</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University “Pharmacy in Egypt: Ensuring Access to Health“, April 22<sup>th</sup>, **2017.**
5. Attended the 9<sup>th</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University “Towards Globally Recognized Egyptian Pharmaceutical Ingredients: A National Priority”, April 25-26<sup>th</sup>, **2018.**
6. Participated in publishing a conference abstract in Cytotherapy Journal “ISCT conference” entitled “Exendin-4 enhances osteogenic differentiation of adipose tissue mesenchymal stem cells through RANK/RANKL/OPG axis”. Volume 3, Issue 5, Page S51, 1 May **2021.**

7. Attended the 10<sup>th</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University “Reshaping Pharma Sustainability and Innovation for Better Pandemic Response”, July 6-7<sup>th</sup>, **2021**.
8. Presented a **“Poster”** on the 24<sup>th</sup> International Conference and Exhibition on Pharmaceuticals & Novel Drug Delivery Systems” held on January 30<sup>th</sup>-31<sup>th</sup>, **2023** ‘Virtual” under the title of **“Cromolyn chitosan nanoparticles modulate the DNA methylation of RASSF1A and p16 tumor suppressor genes and lessen DNMT1 and METTL3 expression in MCF-7 breast cancer cell line”**, **2023**.
9. Attended the 11<sup>th</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University “Authenticity for Excellence in Pharmacy; Egypt healthcare vision 2030”, May 14-15<sup>th</sup>, **2023**.

### Reviewing Scientific Manuscripts:

Served as a reviewer for 56 manuscripts in 36 international scientific journals:

Journal	Number of Manuscripts	Journal	Number of Manuscripts
International Journal of Cancer	1	DNA and Cell Biology	1
Viral immunology	1	Oncotarget	4
World Journal of Gastroenterology	4	Molecular Medicine Reports	5
World Journal of Clinical Oncology	1	Annual Research & Review in Biology	1
Biomedicine & Pharmacotherapy	4	Cytokine	2
World Journal of Gastrointestinal Pharmacology and Therapeutics	1	International Journal of Immunopathology and Pharmacology	1
Clinics and Research of Hepatology and Gastroenterology	2	Clinical Chemistry and Laboratory Medicine	3
Aging	2	Cancers (MDPI)	1
Journal of Clinical Laboratory Analysis	1	Journal of Clinical Medicine (MDPI)	1
Biomed Research International	1	Biomolecules (MDPI)	2
International Journal of Molecular Medicine	1	Experimental and Therapeutic Medicine	2
Plos One	1	Analytical Cellular Pathology	1
International Journal of Biochemistry Research & Review	1	Journal of International Medical Research	1
Bulletin of Faculty of Pharmacy Cairo University	1	European Journal of Pharmacology	1
Life (MDPI)	1	ACS Chemical Neuroscience	1
Nanomedicine (MDPI)	1	Journal of Personalized Medicine (MDPI)	1
International Journal of Medical and Pharmaceutical Case Reports	1	Genes (MDPI)	1
World Journal of Gastrointestinal Oncology	1	Cellular Signaling	1

### Awards and Recognition:

1. A Certificate of Appreciation from Faculty of Pharmacy, Cairo University for **the best Master Thesis in Biochemistry 2013** awarded in the 5<sup>th</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University “Pharmacy at the Cutting-edge: Facing Future Challenges”, April 23<sup>th</sup>-24<sup>th</sup>, 2014.



2. Certificate of Appreciation from Cairo University for publishing distinguished research in international scientific journals in 2017.
3. A Certificate of Appreciation in the 9<sup>th</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University for **the outstanding participation in the committees of Performance Appraisal and Quality Assurance in 2018.**
4. **Awarded the 2022 Mohamed Farid Khamis (MFK) Research Excellence Award in Medical and Health Sciences launched in 2021 as a tribute to the late Mr. Mohamed Farid Khamis, founder of the British University in Cairo (December 2022).**

## Training Courses and Workshops:

1. **Performance Appraisal and Quality Assurance Workshops:**
  - “Course Specifications and Course Report” in Performance Appraisal and Quality Assurance Unit, Faculty of Pharmacy, Cairo University (2014).
  - Performance Appraisal and Quality Assurance Specialized Training Workshop, Faculty of Pharmacy, Cairo University (2021).
2. **Fundamentals of Digital Transformation Certificate (FDTC):** Word, Presentations, and Operating Systems courses (2021).
3. **FLDC Training Workshops:**
  - “Time and Conference Management” (2011).
  - “International Publishing of Research” (2011).
  - “Use of Technology in Teaching” (2011).
  - “E-Learning” (2013).
  - “Research Ethics” (2013).
  - “Exams and Students Evaluation Systems” (2013).
  - “Conference Organization” (2015).
  - “University Code of Ethics” (2015).
  - “Competing for Research Funds” (2016).
  - “Quality Standards in Teaching” (2016).
  - “Fundamentals of Clinical Trials” (2016).
  - “Crisis Management” (2016).
  - "Biomedical and Experimental Statistical Analysis" (2019)
  - "Positive Thinking" (2019).
  - “Strategic Planning” (2020).
  - “Communications Skills” (2021).
  - “Fundamentals of Blended Learning” (2021).
  - “Critical Thinking” (2021).
  - “Effective Presentation Skills” (2022).
4. **Online Workshops:**
  - H-index, Impact factor and Citation (2020).
  - Mendeley Citation Manager Software (2021).

- **Egyptian Knowledge Bank (2021).**
  - **Academic Advising and Credit Hours (2021).**
5. **Online Webinars**
- **Enteral and parenteral nutrition in oncology patients (2020).**
  - **AstraZeneca Session - Selling Skills (2020).**
  - **Obesity, Overweight and risk for cardiovascular diseases in women (2022).**
  - **Regulation of bacterial virulence as an approach to combat the problem of antibiotic resistance (2022).**
  - **Times Higher Education World University Ranking 2023 (2022).**
  - **5 Reasons to Study Lifestyle Medicine (2022).**
  - **Management of Chronic Hypertension According to Latest Guidelines in (11-1-2023).**
  - **Combining 3D Printing and Virtual Reality: Advanced Technologies to enhance Pharmacy Education and Research (30-1-2023).**
  - **STDF Open Calls Info-session (6-2-2023).**
6. **“Real-time PCR” workshop in Faculty of Pharmacy, Cairo University (2012).**

### Laboratory experience:

**Have a good experience in the following techniques:**

- Extraction of DNA and RNA from cells/blood/serum.
- Reverse transcription.
- PCR (conventional and Real-time) and PCR data analysis.
- Western blotting.
- ELISA.
- Gel electrophoresis.
- Enzyme kinetics.
- Spectrophotometric techniques and other experimental procedures.
- Statistical analysis using multiple statistical programs (GraphPad Prism, SPSS, XLSTAT, INSTAT, and DTREG).

### Computer Skills:

- Completed ICDL courses on Information and Communication Technology, Windows, Internet use, and Microsoft office (word, excel, power point, and access) with excellent degree (2016).
- Moodle, LMS, and Blackboard Education systems
- SPSS, INSTAT, and Graphpad Prism Statistical Softwares
- Endnote

**References:** All references are available whenever required.