

NIRMAL SINGH

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EDUCATION

Year	Degree	Board / University	Percentage/CGPA
2016- Present	M.Sc. Physics	Hindu College, University of Delhi	Awaiting
2016- 2019	B.Sc.(H) Physics	Hindu College, University of Delhi	7.31
2016	Intermediate Class XII	Board of High School and Intermediate Education Uttar Pradesh	93.40
2014	High School Class X	Board of High School and Intermediate Education Uttar Pradesh	86.83

Recipient of the award of **Scholarship for Higher Education** under **INSPIRE Programme** worth **INR 80,000** per year.

SUMMER INTERNSHIP PROJECT

D S Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi (June-July 2019)

- Project: **RC Bluetooth Car** - a Car Automation based.
- A very basic project in the field of electronics but carry great lessons.

D S Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi (June-July 2018)

- Project: **The Intelligent Mirror powered by Raspberry Pi** - a Home Automation based.
- Most of the project's parts were recycled from the college electronic wastes.
- **First Runner up** for presenting the Scientific Poster at the **INSPIRE Scholars Science Conclave 2019**.

Department of Physics, Hansraj College, University of Delhi (May-July 2017)

- Project: **The Investigation of ZnO/PVA composite for UV application** - a nano particle based.
- Phase analysis and particle size of ZnO sample was investigated by X-Ray diffraction. (XRD)

ONLINE COURSES ON COURSERA

Google IT Automation with Python Professional Certificate offered by **Google**.

Three-course certificate (1. Crash Course on Python 2. Using Python to Interact with the Operating System 3. Introduction to Git and GitHub.) by Google, practicing IT professional demand skills like Python, Git, and IT automation.

Web Design for Everybody: Basics of Web Development & Coding Specialization by **University of Michigan**.

Five-course certificate (1. Introduction to HTML5 2. Introduction to CSS3 3. Interactivity with JavaScript 4. Advanced Styling with Responsive Design 5. Web Design for Everybody Capstone) practicing how to write syntactically correct HTML5 and CSS3, and how to create interactive web experiences with JavaScript.

Introduction to Programming with MATLAB offered by **Vanderbilt University**.

An introductory programming course on MATLAB to illustrate general concepts in computer science.

How Things Work: An Introduction to Physics offered by **University of Virginia**.

An introduction to physics in the context of everyday objects.

ADDITIONAL SKILLS

- Working knowledge of C, C++, Scilab, Fortran, LaTeX, Arduino, Raspberry Pi.
- Working knowledge of Python, Jupyter Notebook, Git, Markdown.
- Working knowledge of MS Word, MS Excel, MS PowerPoint.
- Working knowledge of HTML5, CSS3 and Javascripts.

EXTRA-CURRICULAR ACTIVITIES

- Participated in **DST INSPIRE Scholar Science Conclave 2019: Research on the Frontiers**.
- Participated in **Science Exhibition and Poster Making Competition** organized by Hansraj College, University of Delhi.