Class 10 Physics

Topic Name : K12

Sub-topic Name : CLASS10

Course link : https://ineuron.ai/course/Class-10-Physics

Course Description :-

Physics is a combination of theoretical and practical knowledge. The Physics syllabus includes laws, formulas, equations, theories and series of experiments which a student must grab. The subject leads you to the real world of imagination, the planetary motions and the universe which sounds an interesting one, isnt it? NCERT covers all the conceptual points properly but they are very summerized in the book. iNeuron allows you to explore all the content from NCERT physics in a proper manner and flow.

Course Features :-

=> Self paced video session

=> Covered entire class 10th Physics syllabus

=> Solved questions chapter wise

=> Notes

=> Previous year solved questions

What you will learn :-

=> Entire NCERT Class 10th Physics Syllabus

=> Chapter wise solution with detailed explanation

Requirements :-

=> Computer with Internet Connectivity

Instructors :-

=> Jwala Prakash :

~ I have 4+ years of experience in teaching mathematics and physics for grade 9 and 10.
I am also an experienced teacher for mathematics aptitude. I have qualified mains exam twice of the most reputed central government exam, staff selection commission(SSC)

Curriculum details :-

=> Electricity :

~ Electric current and circuits
~ Electric potential and potential difference
~ Circuit diagram
~ Ohms law
~ Factors on which the resistance of conductor depends
~ Resistance of a system of resistors
~ Heating effect of electric current
~ Electric power

=> Magnetic effect of electric current :

~ Magnetic field and field lines
~ Magnetic field due to current carrying conductors
~ Force on current carrying conductor in electric field
~ Electric motor
~ Electromagnetic induction
~ Domestic electric circuits

=> Light - reflection and refraction :

~ Reflection of light
~ Spherical mirrors: Formation of image
~ Uses of spherical mirrors
~ Sources of Energy
~ Mirror formula and magnification
~ Refraction of light
~ Refraction by spherical lenses
~ Lens formula and magnification Power of lens

=> Human eye and colorful world :

~ The human eye
~ Power of accommodation
~ Defects of vision and its correction: myopia
~ Defects of vision and its correction: Hypermetropia
~ Presbyopia
~ Astigmatism
~ Refraction through prism
~ Dispersion of white light through glass prism
~ Atmospheric refraction and its effect
~ Scattering of light: Tyndall effect

=> Sources of energy :

~ Different forms of energy
~ conventional and non-conventional sources of energy
~ Fossil fuels, solar energy; biogas; wind, water and tidal energy; Nuclear energy
~ Renewable versus non-renewable sources of Energy

Video editing with Adobe Premiere Pro

Topic Name : K12

Sub-topic Name : CLASS10

Course link : https://ineuron.ai/course/Video-editing-with-Adobe-Premiere-Pro

Course Description :-

In this course, you will learn the basics of video editing fundamentals like adding background music, cut & trim, adding text, and many others. You will also learn to color correct and grade your videos to create professional-level content. Students after successful completion will gain hands-on practical experience in making top-notch videos. You can start applying for freelance jobs to earn a fortune out of it.

Course Features :-

=> Online Instructor-led learning

=> Practical Implementation

=> Integrate academic knowledge with the tech

=> Real-time Project

=> Live Class Recording

=> Doubt Clearing

=> Assignment in all the Module

=> Quiz in every Module

=> Career Counselling

=> Completion Certificate

What you will learn :-

=> Installation of Adobe Premiere Pro

=> Exploring the Premiere pro workspace and customizing it

=> Exploring the Premiere pro workspace and customizing it

=> Introduction to The Editing Tools

=> Video Properties

=> Adding Style in Your Videos

=> Adding Video and Audio Transitions

=> Audio Editing in Premiere Pro

Requirements :-

=> System with Internet Connection

=> Interest to learn

=> Dedication

Curriculum details :-

=> Introduction to the course :

~ Course introduction
~ Who is this course for ?
~ Course overview & Course outcome
~ Course pre-requisite
~ What is Video editing?
~ What are the different tools used for Video editing?
~ Why Adobe premiere pro ?

=> Assignment :

~ What makes you think you need to edit your videos?

=> Installation :

~ Installation of Adobe premiere pro
~ Basic overview of the platform

=> Assignment :

~ What are the alternatives to Adobe Premiere pro?

=> Premiere Pro Basics :

~ How to start a Premiere pro project?
~ Exploring the Premiere pro workspace and customize it.
~ How to import and organize media in Premiere pro?

=> Assignment 1 :

~ Create your own workspace in premier pro

=> Video Editing Basics :

~ How to start a new sequence?
~ Let us understand sequences
~ What is Timeline?
~ How to add clips to the timeline?
~ The Editing Tools
~ What are Razor cuts and how to use it?
~ What is Ripple edits and how to use it?
~ What are Slips and how to use it?
~ How to synchronize audio and video?
~ Video Properties
~ What is Scale?
~ What s Position?
~ What is Opacity?
~ Types of Cuts
~ What is Straight?
~ What is J-cut?
~ What is L-cut?
~ Basic colour grading

=> Assignment 2 :

~ Create HD and 4K sequences

=> Assignment 3 :

~ Create a timeline using atleast 10 different videos syncing with audio

=> Assignment 4 :

~ What is the difference between Scale, Rotation, Opacity?

=> Assignment 5 :

~ Make a sequence using L-cut, J-cut and Jump cut

=> Adding Style to Your Videos :

~ What is Video style section?
~ Create a zoom in with Keyframes
~ Create zoom out with Keyframes
~ Using Nests to create a cool zoom sequence
~ How to use Blend modes to combine videos?
~ How to create a split Create Effect with Borders?
~ How to apply The Ken Burns effect- zooming in and out of photos ?

=> Assignment 6 :

~ Create a cinematic zoom effect using keyframes

=> Adding Video and Audio Transitions :

~ How do we add video and audio transitions in Premiere pro?
~ How do we customize our video transition properties ?
~ How do we add audio transitions and create custom audio fades?

=> Assignment 7 :

~ Use different types of audio and video transitions from the effects panel

=> Audio Editing in Premiere Pro :

~ How do we make our Audio louder or quieter ?
~ How to remove background noise from audio in Premiere pro?

=> Assignment 8 :

~ Use the Effects panel to experiment with various audio effects.

=> Course Summary :

~ Course Outro
~ Future learning path

VueJS Crash Course

Topic Name : WEB DEVELOPEMENT

Sub-topic Name : VUE JS

Course link : https://ineuron.ai/course/VueJS-Crash-Course

Course Description :-

This course will help you to grab the fundamentals of VueJs.

Course Features :-

=> Course material

=> Course resources

=> On demand recorded videos

=> Practical exercises

=> Quizzes

=> Assignments

=> Course completion certificate

What you will learn :-

=> What is VueJS

=> VueJS project structure

=> Adding data and methods

=> Passing data to prop in Vue

=> Adding editable form in todo

=> Passing methods in Vue

=> Adding info to list

Requirements :-

=> System with Internet Connection

=> Interest to learn

=> Dedication

Instructors :-

=> Hitesh Choudhary :

~ I like to make videos related to code and tech in my free time. I also lead a few tech teams in startups, help in hiring talent for companies. I am also on a part time traveller, with 31 countries checked off so far!

Curriculum details :-

=> VueJS :

~ What is VueJS
~ VueJS project structure
~ Adding data and methods
~ Passing data to prop in Vue
~ Adding editable form in todo
~ Passing methods in Vue
~ Adding info to list

Trifacta

Topic Name : DATA ANALYTICS

Sub-topic Name : DASHBOARDING

Course link : https://ineuron.ai/course/Trifacta

Course Description :-

In this course, you will learn the fundamentals of data wrangling using the Trifacta tool. Data wrangling helps to improve data usability as it converts raw data into a compatible format for further analytics and machine learning. Accelerate and visualize data transformation to improve the quality of your dataset and build automated pipelines with Trifacta.

Course Features :-

=> Practical Implementation

=> Downloadable resources

=> Class Recordings

=> Quiz Questions

=> Completion Certificate

What you will learn :-

=> Trifacta

=> Data preprocessing

=> Data transformation

=> Recipes

=> Scheduling jobs

Requirements :-

=> Prior Knowledge of basic data analysis

=> System with good internet connection

=> Interest to learn

=> Your dedication

Instructors :-

=> Monal Kumar :

~ Monal Kumar is a data scientist and instructor working at iNeuron having 2+ years of total experience in both service and product-based organisations. He is specialised in Deep Learning, Computer vision and Image processing. Previously, he held positions as a support configurator at Wipro Technologies and as a Deep Learning researcher at Harptec Research. Offering the finest possible services to his clients. In addition to his primary job function, he is recognised for his creativity and ideas that change the nature of the existing problem.

Curriculum details :-

=> Course Introduction :

~ Welcome to Trifacta course
~ Course pre-requisites
~ Who is this course for? Preview
~ What is Trifacta? Preview
~ What is API?
~ Why API is used?
~ Advantage of API Preview
~ How to get access to course materials?
~ What carrer path you can follow after completion of this course?

=> Trifacta API :

~ Trifacta API introduction and syntax
~ Flow object model
~ Navigation in trifacta
~ Practical: Overview of trifacta default flows
~ Module summary

=> Wrangling :

~ Introduction
~ Keywords
~ What is data wrangling?
~ Sampling
~ Connecting to datasource
~ Let's start, Wrangling
~ Profile and discover
~ Standardizing column values
~ Format
~ Filter
~ Replace

~ *Count matches*
~ *Split*
~ *Merge*
~ *Extract*
~ *Conditions*
~ *Functions*
~ *Arrays*
~ *Objects*
~ *Unpivot*
~ *Union*
~ *Lookup*
~ *Join*
~ *Pivot*
~ *Module summary*

=> Operationalization :

~ *Running a job*
~ *Reusing Recipes*
~ *Scheduling*
~ *Module summary*

=> Summary :

~ *Course Outro*
~ *Future Scope of Trifacta*

Pro Backend Developer

Topic Name : WEB DEVELOPEMENT

Sub-topic Name : FULL STACK WEB DEVELOPMENT

Course link : https://ineuron.ai/course/Pro-Backend-Developer

Course Description :-

This course is tiled pro for a reason. In this practical hands-on course, you will learn how to build complex backend applications that can be used for any web or mobile application. Your REST API will be in production with docs, social logins, images, authentications, mail and, much more. This is a true pro backend course.

Course Features :-

=> Course material

=> Course resources

=> On demand recorded videos

=> Practical exercises

=> Quizzes

=> Assignments

=> Course completion certificate

What you will learn :-

=> MongoDB

=> Heroku Cloud

=> Swagger

=> Authentication

=> File,image and form handling

=> MORGAN and razorpay

=> Configs and imports

=> Controllers and routes

Requirements :-

=> System with minimum i3 processor or better

=> At least 4 GB of RAM

=> Working internet connection

=> Dedication to learn

Instructors :-

=> Hitesh Choudhary :

~ I like to make videos related to code and tech in my free time. I also lead a few tech teams in startups, help in hiring talent for companies. I am also on a part time traveller, with 31 countries checked off so far!

Curriculum details :-

=> Getting started :

~ Goal of this course and instructions
~ Tools for backend developer
~ Mongodb MAC install
~ Mongodb WIN install
~ MongoDB in cloud - Atlas
~ Mongo GUI - compass

=> Take it up to Heroku - Production :

~ Things you need to deploy on Heroku
~ Plan your application
~ Types of web request
~ Framework - Express, Koa, Hapi
~ Starting with package JSON file
~ Your first express app
~ Request Response and Status code
~ All social routes
~ Handle the date situation
~ Parameters and bugs in route
~ Pushing app to HEROKU
~ Debug social app in production

=> Swagger Docs :

~ What is swagger and api docs
~ Nodemon ext and YAML docs

~ *Authentication token for swagger docs*
~ *Docs for HTTP methods swagger*
~ *A new documentation centric project*
~ *Setup information - swagger*
~ *Authentication and Authorization - swagger*
~ *String based GET request - swagger*
~ *handling objects - swagger*
~ *handling array in Swagger docs*
~ *Sending data in URL - swagger*
~ *managing request body in swagger*
~ *handle url query in swagger*
~ *handling images in swagger*
~ *handling header tokens in swagger*

=> Authentication :

~ *What we have done till section 3 - backend*
~ *Hiding secrets in backend*
~ *Picking up a database for backend*
~ *Why we need mongoose - ODM*
~ *Pro db modeling tools*
~ *Creating model for auth system*
~ *Creating basic structure for auth system*
~ *Creating user schema and dotenv*
~ *Registering a user in auth system*
~ *Database connection in auth system*
~ *What is a middleware*
~ *Handling password situation*
~ *What is JWT and creating token*
~ *Register route in auth app*
~ *Login flow for auth app*
~ *Web vs Mobile*
~ *Writing custom middleware*
~ *Setting up secure cookies*

=> File, image and form handling :

~ *Why people face issue in image upload*
~ *Cloudinary and EJS*
~ *How GET works and postman issues*
~ *Using template engines*
~ *Biggest confusion in front end forms*
~ *Handling images in forms*
~ *Handling images in forms part 2*
~ *upload image to cloudinary or other providers*
~ *Handling multiple files and uploading them*

=> Theory and Razorpay :

~ *File structure for production app*
~ *Getting a logger - MORGAN*
~ *Error handler and Promises*
~ *Sending emails using nodemailer*
~ *Why mongoose docs are important*
~ *Razorpay project*
~ *Razorpay front end integration*

=> Big Ecommerce app starts :

~ *Project requirement*
~ *User modeling and file structure*
~ *Product model discussion*
~ *Order Model discussion*
~ *How forgot password feature work*
~ *Functions in user model and hooks*

=> Basic Config and imports :

~ *Getting files and folders ready*
~ *Preparing basic express app*
~ *Routes and controllers in dummy*
~ *Injecting docs and middleware*
~ *Custom error handlers*
~ *The big Promise*

=> User model and signup :

~ *Creating a user model and validator*
~ *password encryption and mongoose prototypes*
~ *Validating the password*
~ *creating JWT tokens*
~ *forgot password and crypto hashing*
~ *User routes and postman*
~ *Signup a user and cookies*
~ *Database connection*
~ *Testing the user signup with postman*
~ *Handling image upload*
~ *Testing photo upload and user signup*
~ *yes, we know about postman files*

=> User controllers and routes :

~ *Login route and controller*
~ *logout controller and route*
~ *Send email from node*
~ *Forgot password controller*
~ *Reset password controller and routes*
~ *Middleware - injecting information*

~ User dashboard controller and routes
~ Update the password for a user
~ Updating the user profile
~ User, admin, manager and more roles
~ Manager only routes
~ Admin get a single user
~ Admin can update any user
~ Admin can delete a user now

=> Working on Product Model :

~ Product middleware setup for routes
~ Product Model and refs
~ A long talk on URL replace and mongo operators
~ Creating a product
~ Where clause in search
~ Where clause Pager
~ Aggregation filer in Where Clause
~ Get all products with WHERE and pager
~ Debugging and testing of product add and get

=> More routes in Products :

~ Single product route
~ Update the product with photos
~ Delete a product and minor bug
~ Testing and debugging
~ Add a review
~ Delete a review and requested routes
~ Configure routes for reviews

=> Razorpay and Stripe :

~ Stripe Docs
~ Stripe controllers
~ Razorpay payments and order
~ Setup payment routes

=> Processing Orders :

~ Order model in action
~ Creating an order and BSON
~ Testing create order and routes
~ Populate fields in order
~ Order of routes is important
~ Updating the stock
~ Delete order and push to git
~ Pushing code to production server

=> OAuth and Social Logins :

~ Social login foundation and demo app
~ Consent screen and API keys
~ Why passport js
~ Package installation
~ Home routes and EJS
~ Preparing routes for login
~ Showing consent screen of google
~ Getting information and email from google
~ Moving google data to database
~ Serialize and deserialize user
~ Protect the Home

DSA with Python

Topic Name : DATA STRUCTURE

Sub-topic Name : DSA WITH PYTHON

Course link : https://ineuron.ai/course/DSA-with-Python

Course Description :-

This Python course on Data Structures and Algorithms covers data structures such as linked lists, stacks and queues, binary search trees, heaps, searching, and hashing. This course covers a variety of sorting algorithms, as well as their implementation and analysis. The following topics are covered with Python implementation in this Data Structures in Python course. Analysis of Algorithms, Big O notation, Time Complexity, Singly Linked List, Doubly linked list, Trees, Heaps, Hashing and Sorting algorithms.

Course Features :-

=> Course material

=> Course resources

=> On demand recorded videos

=> Practical exercises

=> Quizzes

=> Assignments

=> Course completion certificate

What you will learn :-

=> Big O notation

=> Time and space complexity

=> DSA problem solving

=> Stacks and heaps

=> Physical and logical strcutures

=> Abstract data types

=> Recursion

=> Linked Lists

=> Stacks

=> Queues

=> Trees

=> Hashing

=> AVL trees

=> Heaps

=> Sorting

Requirements :-

=> System with minimum i3 processor or better

=> At least 4 GB of RAM

=> Working internet connection

=> Dedication to learn

Instructors :-

=> Hitesh Choudhary :

~ I like to make videos related to code and tech in my free time. I also lead a few tech teams in startups, help in hiring talent for companies. I am also on a part time traveller, with 31 countries checked off so far!

Curriculum details :-

=> Introduction to DSA :

~ Why we need Data structures and algorithms Preview
~ Time based approach
~ Concept of Big O and graphs Preview
~ Data Structures and Algorithms HB

=> Problem Solving :

~ Start with a challenge - reverse string
~ Reverse a string - solution
~ Interview approach to solve a problem Preview
~ Classic interview steps for DSA problems

=> Data Structure Introduction :

~ Memory process - Stack and Heap Preview
~ Physical and logical data structures
~ Abstract Data Types - ADT

=> Recursion in depth :

~ Introduction to recursion
~ Tracing the recursion tree
~ Trace tree assignment
~ Trace tree solution
~ Types of Recursion Preview
~ Complex recursion tree
~ What is Factorial
~ Factorial program in Python
~ Fibonacci series THEORY
~ Fibonacci series and its version Python Code
~ What is Power Program
~ Power Program Python code
~ What is a Combination Program
~ Combination Program Python code
~ Classic Tower of Hanoi problem
~ Classic Tower of Hanoi Python code

=> Linked List in depth :

~ Introduction to Linked List
~ Add value in linked list - cases
~ Push Append and insert in LinkedList - Python code
~ Deletion of linked list THEORY.
~ Deletion in linked list Python code
~ Delete complete linked list Python code
~ Count all nodes in linked list python code
~ Reversing a linked list THEORY
~ Reversing a linked list Python code

=> Circular Linked List in Depth :

~ Circular linked list THEORY
~ Circular Linked List push Python code
~ Traverse a circular linked list Python code
~ Deletion in circular linked list Python code
~ count nodes in circular linked list Python code
~ convert linked list to circular linked list Python code

=> Doubly Linked List in Depth :

~ Theory for doubly linked list
~ Doubly linked list push Python code
~ Insert After in doubly linked list Python code
~ add to last in doubly linked list Python code
~ Traverse a doubly linked list Python code
~ Deleting a node in doubly linked list Python code

=> Stack and Queue :

~ Stack - Push and Pop operation THEORY
~ Stack operations with Python code
~ Queue concept THEORY
~ Queue implementation in Python code
~ Circular queue THEORY
~ Circular queue Python code

=> Binary Search Tree :

~ What is Binary Search tree and creation THEORY update
~ Insertion and Deletion in BST THEORY
~ InOrder Traversal of BST THEORY
~ Pre Order traversal in BST THEORY
~ Post order traversal in BST THEORY
~ Creating a Binary Search tree Python code
~ search a key in BST Python code
~ Insertion in BST Python code
~ deletion of key in BST Python code
~ inorder preorder and postorder traversal in BSTPython code

=> Hashing :

~ What is Hashing THEORY
~ Hash chaining with linked list
~ Linear Hash Shifing
~ Square hash shifting

=> AVL Tree :

~ What is AVL tree and height Preview
~ Finding balance factor
~ Left Left and Right Right Rotation in AVL Tree
~ LR and RL rotation with 1 trick
~ Creating a AVL tree - Important
~ Deletion in AVL Tree.

=> HEAP :

~ Heap - Max and min Heap
~ Insertion and deletion in HEAP

=> Sorting algorithms :

~ Categories of sorts
~ Selection sort - Theory

~ Selection sort - Python Code Preview
~ Bubble Sort - Theory
~ Bubble Sort - Python Code
~ Insertion sort - Theory
~ Insertion sort - Python Code
~ Quick Sort - Theory
~ Quick Sort - Theory part 2
~ Quick Sort - Python Code
~ Counting Sort - Theory
~ Merge Sort Theory
~ Merge sort Python code
~ Counting Sort - Python Code

Email Marketing

Topic Name : DIGITAL MARKETING

Sub-topic Name : EMAIL MARKETING

Course link : https://ineuron.ai/course/Email-Marketing

Course Description :-

Email Marketing course is designed to provide an in depth knowledge on various aspects & concepts of Email Marketing. A step by step learning will be help to focus on each & every parameter of Email Marketing. The Email marketing course will take you through the end-to-end process of Emailing, Email design & templates, Email Subscription management, Reporting, Analytics and more.

Course Features :-

=> Completion Certificate

=> Quiz in every module

=> Real-time Project

=> Assignment in all modules

What you will learn :-

=> Understanding the importance, Benefits & forms of Email Marketing

=> Gain understanding on Email Marketing Domain & its concepts

=> Setting up of an Email Campaign

=> Deployment of an Email Campaign

=> Automation Process

=> Analyse Email Campaign

Requirements :-

=> System with Internet Connection

=> Interest to learn

=> Dedication

Instructors :-

=> Ankur Khanna :

~ Highly-motivated, energetic and dynamic Digital Marketing Mentor and Assistant Professor having 7+ years of experience in Digital Marketing Industry. Strong practical knowledge of different digital marketing tools aimed at meeting the needs of diverse groups of learners.

Curriculum details :-

=> Email Marketing :

~ Introduction to email marketing Preview
~ Who opt email marketing?
~ What we learn in email marketing? Preview
~ Understanding the definition of email marketing Preview
~ Understanding the process of email marketing
~ Process steps in email marketing
~ Important roles in email marketing
~ What actually email marketer do?
~ Understanding audience in email marketing
~ Understanding the audience targeting in email marketing
~ Why it is important to define and targeting audience in email marketing?
~ Benefits of targeting those willing to buy
~ How to identify target?
~ Email deliverability in email marketing
~ Why is it essential to track email deliverability?
~ How to track email deliverability?
~ Difference between email delivery and email deliverability
~ How to improve email deliverability? Preview
~ Factor affecting email deliverability
~ More factors affecting email deliverability
~ Understanding email deliverability scheme