

## GOVERNMENT COLLEGE

VIDYANAGAR, KASARAGOD, KERALA, 671123

www.gck.ac.in

# ICT/COMMUNICATION SKILL PROGRAMMES



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## 2018-19

## 1. <u>Three Day Workshop on E-Content</u>

## **Development**

Organized by: IQAC, NAAC Committee GCK & EMMRC Mysore University

Sponsored by: Directorate of Collegiate Education, Government of Kerala

Date: 13-15 December 2018

Venue: Government College Kasaragod, Kasaragod, Kerala

Resource Persons:

- Syed Kaleem
- Dr. Sreekantachar
- Dr Balakrishna B. M.
- Dr Jijo P U

Participants:

Teaching faculty from various colleges in Kerala

Outcomes:

The participants gained an understanding of the different aspects of e-content development, including the mercess of e-content, the tools and technologies used to develop e-content, and the process of the publiching and an signature of the top the publiching and an signature of the top the publiching and an analysis of the top the publiching and an analysis of the top the publiching and the process of the publiching and t

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The participants also gained hands-on experience in developing e-content using various tools and technologies.

Overall, the workshop was a success and the participants benefited from the training they received.



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#### ABOUT THE WORKSHOP

Digital Learning is reshaping education. ... There are also new skills that students must learn, such as digital literacy. The traditional model of teachers lecturing in the classroom and students completing practice and homework on their own is changing. The IQAC of Government College Kasaragod is organising a three-day workshop during 13 -15, December 2018 to enable our teachers with the digital pedagogy. Experts from the EMMRC of Mysore University will lead the workshop. We invite all our faculty to be part of the workshop. Let us learn, teach and inspire together.

#### Dr. Aravind Krishnan. K. Dr. Balakrishna B. M.

 Principal
 Co-Ordinator

 Dr Hari Kurup K. K.
 Dr Jijo P. U.

 NAAC Co-Ordinator
 IQAC Co-Ordinator

#### THE PROGRAMME

#### Day 1 - December 13, Thursday

9.30 a.m. - Inauguration 10.00 a.m. - 11.30 a.m. E-content and MOOC Syed Kaleem EMMRC Mysore

11.45 a.m. 1.15 p.m.

Development of e-content Dr. Sreekantachar EMMRC Mysore

#### 1.45 p.m. - 3.15 p.m.

Elements of Multimedia

Syed Kaleem EMMRC Mysore

#### 3.15 p.m. - 4.45 p.m.

TV Production Techniques Dr. Sreekantachar

#### Get in touch and find out how you can excel in today's world of digital pedagogy.

#### Day 2 - December 14, Friday

#### 10.00 a.m. - 11.30 a.m.

Preparation of e-content sample script Resource Person: Group I - Syed Kaleem Group II - Dr. Sreekantachar

#### 11.45 a.m. - 1.15 p.m.

Presentation of e-content before the camera by participants Resource Person: Group I - Syed Kaleem Group II - Dr. Sreekantachar

#### 1.45 p.m. - 3.15 p.m.

Preview of e-content development of Group I and feed back by experts

#### 3.30 p.m. - 4.45 p.m.

Preview of e-content development of Group II and feed back by experts

Learn modern digital content creation and curriculum design tools.

#### "representations the E-Content Development Workshop

Information Communication Technology (ICT) is essential for the Higher Education sector today. Hence the NAAC Committee of our college in association with the IQAC is organising a Three-Day workshop on e-Content Development for the faculty members of our College. Resource Persons from the Educational Multimedia Research Centre, University of Mysore will be engaging the sessions along with the camera and editing unit. The follow up sessions will be engaged by the local resource persons.

	Day/date	Mo	rning Session	Lunch	Afternoo	on Session
	Day One 13-12-2018 Thursday	1000-1130 E-content and MOOC by Syed Kaleem EMMRC Mysore	1200 to 1.30 Development of e-content By Dr. Sreekantachar EMMRC Mysore		2 to 3.30 Elements of Multimedia by Syed Kaleem EMMRC Mysore	4 to 5.30 TV Production Techniques by Dr. Sreekantachar EMMRC Mysore
	Day Two 14-12-2018 Friday	Preparation of e-content sample script Resource Person: Group 1 - Syed Kaleem Group II - Dr. Sreekantachar EMMRC Mysore	Presentation of e-content before the camera by delegates. Resource Person: Group I - Syed Kaleem Group II - Dr. Sreekantachar EMMRC Mysore	1.30 to 2PM	Preview of e-content development of Group I and feed back by experts	Preview of e-content development of Group II and feed back by experts
	OVERNMENT	1000-1130 Economic Management a Conduction B. M.	1200 to y 40 Digital Libracy By Dr Jijo P. U.		2 to 3.30 Learning Platforms & E- publishing By Jasim S, Gr. 1 Librarian, St. Stephen's College Uzhavoor	4 to 5.30 Digital Library & Plagiarism <u>by</u> By Jasim S, Gr. 1 Librarian, St. Stephen's
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9			Government College Kasaragod Workshop on E-Content Development Organised by NAAC Committee & IQAC On 13 - 15 December 2018		
				13/12/2018	13/12/2018
SL No.	NAME & ADDRESS		PHONE/EMAIL	FORENOON	AFTERNOON
<u>1.</u>	Abdul Rahiman Riyas TA Guest Lecturer Dept. of Arabic, Government	College Kasaragod	9746916331 Riyasperal85@gmail.com		
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3.	Mohammad Aslam Assistant Professor Dept. of Arabic, Government (	College Kasaragod	9809288603 aslamachamu@gmail.com	No the	per
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6.	Dr. Unnikannan P. Guest Lecturer Dept. of Botany, Government	College Kasaragod	8113946159 uneeeka@gmail.com	0)-	C.J.
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9.	Amitha M. Guest Lecturer Dept. of Computer Science, Go		9809310872 Amithamurali07@gmail.com	dia	dia



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3		Workshop on E-Content Development Organised by NAAC Committee & IQAC On 13 - 15 December 2018		
			13/12/2018	13/12/2018
SL No.	NAME & ADDRESS	PHONE/EMAIL	FORENOON	AFTERNOON
19.	Leena P	8281456281		
-	Guest Lecturer Dept. of Hindi, Government College Kasaragod		-	
20.	Dr. Vinayan T. Assistant Professor Dept. of History, Government College Kasaragod	9495827783 vinaybrennen@gmail.com	2 total	- 23
21.	Deepa K. Assistant Professor Dept. of History, Government College Kasaragod	9497137115 magalathdeepanairk@gmail.com	40	به و
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		On 13 - 15 December 2018		
No.	NAME & ADDRESS	PHONE/EMAIL	13/12/2018 FORENOON	13/12/2018 AFTERNOON
28.	Unnikrishnan P		TORENOON	AFTERNOON
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34.	Dr. Thomas George Assistant Professor Dept. of October Mintent Cog Kasscagod	9446707902 shellbilogy@gmail.com	m	
35.		Name <sup>3</sup> and Signa steenduraths aymatic com Dr.Ana	ture of the F	Principal nabha.A.I



(a)	21	Government College Kasaragod Workshop on E-Content Development Organised by NAAC Committee & IGAC On 13 - 15 December 2018		
-			13/12/2018	13/12/2018
SL No.	NAME & ADDRESS	PHONE/EMAIL	FORENOON	AFTERNOON
10.	Sabitha K.V. Guest Lecturer Dept. of Computer Science, Government College Kasaragod	9526022662 Sabi4ani@gmail.com	Seles.	cally.
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12.	Anoop Kumar M Assistant Professor Dept. of Economics, Government College Kasaragod	9496296413 anoopkumarmaniyeri@gmail.com	APP.	
13.	Rejuna C.A. Assistant Professor Dept. of Economics, Government College Kasaragod	9567198128 rejunaca@gmail.com		
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## 2. Basic Computer Programming





Attendance Sheet





## 2019-20

## **1.National Workshop on "Python Programming, Parallel Computing and IoT"**

#### Report:

The workshop consisted of six sessions which gave basic knowledge of the latest technologies and hands on experience to the registered candidates. First three sessions held on December 3 were handled by Prakasha M, Asst. Professor, Dept. of Computer Science, Mangalore University and was about Python programming. At the end of the day an open forum was also there. Session 4 was about the Internet of Things by Vimal Krishnan V R,

Founder and COO, ScrumField Solutions Pvt. Ltd. and session 6 was on the topic Parallel Computing using OpenMP by Dr. Rajesh R, HoD of Computer Science, Central University of Kerala. 20 students attended the workshop and gained knowledge and hands-on experience in these areas. Mr. Rajesh Kumar N co-ordinated the programme.



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#### **INVITED SPEAKERS**



Mr. Praksha M Asst. Professor Dept. of Computer Science Mangalore University



Vimal Krishnan V R Founder & COO, ScrumField Put. Ltd. KINFRA, Trivandrum



**Dr. R Rajesh** Associate Professor & HoD Dept. of Computer Science Central University of Kerala

#### **WE OFFER**

Python Programming

Python is an interpreted, high-level, generalpurpose programming language. It is used for developing desktop GUI, application websites & web application

#### Parallel Computing

Parallel computing is a type of computation in which many calculations or the execution of processes are carried out simultaneously. Large problems can often be divided into smaller ones, which can then be solved at the same time.

#### Internet of Things (IoT)

The Internet of Things is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

#### **CONTACT US**

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gckcsworkshop@gmail.com



NATIONAL WORKSHOP on "PYTHON PROGRAMMING, PARALLEL COMPUTING, and IoT"

on 03 and 04 December 2019

at College Auditorium, Govt. College Kasaragod



Organised by Department of Computer Science Government College Kasaragod

Sponsored by Directorate of Collegiate Education Government of Kerala



#### Name and Signature of the Principal Dr.Ananthapadmanabha.A.L

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#### ABOUT THE WORKSHOP

#### Dear sir/madam,

We are pleased to announce the National Workshop on Python programming, Parallel computing and Internet of Things (IoT) being organized by the Department of Computer Science, Government College Kasaragod and sponsored by the Directorate of Collegiate Education, Government of Kerala from December 03 to 04, 2019. The workshop aims to give you basic knowledge of the latest technologies and hands-on experience.

We have invited a group of academicians and industry experts to share their knowledge and experience with us. We encourage faculty members, academicians and students to join us to learn, interact and share in niche technologies.

Those who are interested to participate, may register in advance with us. We will be also sending a google form for making the registration process easy. We cordially invite you to be a part of our workshop.

> Dr. Ananthapathamanabha (Principal)

Jubeesh M K (Head of Department) Rajesh Kumar N (Co-ordinator)

#### PROGRAMME

Day 1: Tuesday, Dec 03

9:00 AM	Registration
9:30 AM	Inaugural Session
10:00 AM	Session 1: Python Programming by Prakasha M, Asst. Professor, Dept. of Computer Science, Mangalore University
11:30 AM	Tea Break
11:45 AM	Session 2: Python Programming by Prakasha M, Asst. Professor, Dept. of Computer Science, Mangalore University
1:15 PM	Lunch Break
2:00 PM	Session 3: Python Programming by Prakasha M, Asst. Professor, Dept. of Computer Science, Mangalore University
3:30 AM	Open Forum

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#### 9:30 AM Session 4: Internet of Things(IoT) by Vimal Krishnan V R, Founder and COO, ScrumField Solutions Pot. Ltd 11:00 AM Tea Break 11:15 AM Session 5: Internet of Things(IoT) by Vimal Krishnan, Founder and COO, ScrumField Solutions Pot. Ltd 12:45 PM Lunch Break 1:30 PM Session 6: Parallel Computing using OpenMP by Dr. Rajesh R, HoD of Computer Science, Central University of Kerala 3:30 PM Valedictory Function

Day 2: Wednesday, Dec 04





Name and Signature of the Principal Dr.Ananthapadmanabha.A.L

> FRINCIPAL EVERNMENT COLLEGE KASARAGOT

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#### List of participants

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Roshna       Msc Computer science       Central university of kerala         Abdullah       Electronics and communication engineering       LBS COLLEGE OF ENGINEERING KASARAGO         Mushrifa       iot       cuk         Backer P.A       iot       cuk         Ayshath       MSc computer science       Central University of KeralaName         Ramseena CA       science       Central University of KeralaName         Rahul K       ECE       ENGINEERING, KASARAGO         Harshith Kumar       LBS COLLEGE OF ENGINEERING, KASARAGO         A       ECE       ENGINEERING         Khadeejath       Msc ComputerScience       Central University Of Kerala         Ebad Rahiman       BSc Botany       Government College Kasarago         Shameer A P       CS       NAM College         Joyal Jose       BCA       Greenwoods arts and science college         Asbeena MP       Python       St.Josephs college, pilathara         Name       and Signature of the Principal Dr.Ananthapadmanabha. Shree devi college mangalore		-	<b>a</b>	
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Sheeja K V	Computer Science	St. Joseph's College, Pilathara	Teacher
Sharath c	BCA	Green woods arts and science college palakunnu	Software developer
Ayshath Shamseena	Phython	Greenwoods Arts & science college	Student
Rujhana Kotyad	Python	Greenwoods Arts & science college	Student
Athira. V	Python	Green woods arts and science college	Student
Fathimath Afeefa.T	Python	Greenwoods Arts & science college	Student
suvija.K V	python	spinox innovation kannur	Student
Heena Fathima	Python	Greenwoods Arts & science college	Student
Aswin M	Electronics And Communication Engineering	LBS College of Engineering	Student
CHINTHAN M G	B Sc COMPUTER SCIENCE	CAS MANJESHWARAM	Student
safwan b	BSc Computer Sceince	IHRD College of applied science manjeshwaram kumbla	Student
Mihammed misbah	Computer science	CAS manjeshwar ,kumbla	Student
Jishnu pv	Msc cs	Collage of applied science manjeshwar	Student
Ashwin Krishna K	CSE	LBS	Student
Ajmasernmen	Competer science	LBS college of engineering ame and Signature of the Princip	Student
Vidyasagar.v	Msc cs	CAS Manjeshwarani	Student
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Muhammed	B.com	Government collage Kasaragod	Student
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## 2020-21



Supporting Document 5.1.2

Government College Kasaragod



## 1. ADD ON COURSE ON

## **INTRODUCTION TO PYTHON PROGRAMMING**

#### **SYLLABUS**

**Unit I**: Features of Python, Different Methods to Run Python, Basic Elements (Objects, Expressions, Numerical Types, Strings, Variables), Comments, Indentation in Python, Input and Output in Python, import function, Operators in Python. (12 Hrs)

**Unit II**: Branching (if, else, elif), Iteration (while, for), range and enumerate functions, Tuples, Lists, Sets, Dictionaries, Built-in methods of lists, sets and dictionaries, Mutable and Immutable Objects.

(8 Hrs)

**Unit III**: Functions Definition, Function Calling, Function Arguments (Required, Keyword, Default), Recursion, Modules, Built-in Modules (math, statistics), Creating Modules, File Handling (Opening, Closing, Writing, Reading), Exceptions, Built-in Exceptions (IndexError, OverflowError, ZeroDivisionError, RuntimeError), Exception Handling. (8 Hrs)

**Unit IV**: Arrays in Python, Numpy Module, ndarray, Creating Arrays (array, zeros, ones, empty, linspace, arrange, random), Two-Dimensional Array, Indexing, Slicing, Iterating, Copying, Splitting, Shape Manipulation (reshape, transpose, resize), Arithmetic Operations on Arrays. (8Hrs)

#### TOTAL MARKS: 50

COMPONENT	WEIGHTAGE
THEORY EXAM	40%
PRACTICAL	50%







#### **SUMMARY REPORT**

The course titled INTRODUCTION TO PYTHON PROGRAMMING introduced for students from various streams in the college who are interested to learn python programming. 9 students who are interested in the programming from other stream joined the course. Course started on 11.08.2020 in online mode. Theory classes were discussed in the online mode and students were able to do the practical with the help of PYdroid Application. From 12<sup>th</sup>December 2020 onwards course shifted to offline mode and students could practice the programming in the computer lab of the college. We have finished the course successfully on 30<sup>st</sup> March 2021.

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#### **ENROLLMENT LIST**

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## 2021-22

## **1. ADD ON COURSE WEB DEVELOPMENT**



## **COMPUTER SCIENCE**







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Name and Signature of the Principal Dr.Ananthapadmanabha.A.L



Supporting Document 5.1.2



#### **SYLLABUS**

Unit I: HTML Basics Introduction to WWW and HTML, Steps for hosting a website, Structure of HTML, HTML elements and attributes, Headings, Paragraphs, Formatting tags, line breaks, Comments, Links, Images, Lists, HTML5 Semantic Elements (header, footer, nav, section, article, nav, aside). (8 Hrs)

Unit II: HTML Tables and Forms HTML Tables, HTML Forms (input, select, textarea, button, datalist), Input types (text, password, submit, radio, checkbox, date, email), Input attributes (value, readonly, disabled, maxlength, autocomplete, list, min, max, placeholder) (12 Hrs)

Unit III: CSS HTML5 form validation (required and pattern attribute of input type), Applying style to html using CSS (Inline, Internal and External CSS, Colors, Fonts, Borders, Padding, Applying style using class and id attribute). (6 Hrs)

Unit IV: JavaScript JavaScript: Introduction, data types, variables, operators, functions, arrays. Dialog boxes: Alert, confirm and prompt dialog boxes (10 Hrs)

#### TOTAL MARKS: 50

COMPONENT	WEIGHTAGE
THEORY EXAM	50%
PRACTICAL PROJECT	60%

#### SUMMARY REPORT

The course titled WEB DEVELOPMENT introduced for students from various streams in the college who are interested to learn python programming. 20 students who are interested in the programming from other stream joined the course. Course started on 29.07.2021. Along with theory classes practical classes are also provided to students .The evaluation of the course was mainly based on their project work to develop a webpage. On 15th October 2021 we have successfully completed the course.



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#### ENROLLMENT LIST

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### 2. ADD ON COURSE ON MACHINE LEARNING



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Government College Kasaragod



#### **SYLLABUS**

#### MODULE-1

Introduction to Machine Learning: Concept of learning, different types of learning; supervised learning, unsupervised learning, reinforcement learning. Setting up machine learning platform; basics of python, training, validation and testing, over-fitting and under-fitting (10 Hrs)

#### MODULE II

Supervised Learning: Introduction, learning a class from examples, SVM, learning multiple classes, model selection and generalization, linear regression and feature selection, Bayesian and Decision Tree learning. (8 Hrs)

Module III

Unsupervised Learning: Introduction, clustering; mixture densities, k-means clustering, expectation maximization algorithm, spectral and hierarchical clustering, Dimensionality reduction; principal component analysis (5Hrs)

#### MODULE IV

Introduction to Artificial Neural Network: Understanding brain, perceptron, Multi-Layer perceptron, general architecture of artificial neural network, feed forward and back-propagation, linear and nonlinear activation functions for binary and multi class classification. (7Hrs)

MODULE V

Introduction to Deep Learning: Fundamentals of deep learning, Existing Deep neural networks, Regularization for Deep Learning, Optimization for Training Deep Models, Introduction to Convolutional Networks, Classification and segmentation using CNN, Sequence Modelling using Recurrent Nets, overview of LSTM, Generative adversarial network. (14 Hrs)

COMPONENT	WEIGHTAGE IL
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#### TOTAL MARKS: 100



#### **SUMMARY REPORT**

The course titled **MACHINE LEARNING** introduced for students from various streams in the college who are interested to learn python programming. 23 students who are interested in the programming from other stream joined the course. Course started on 05.12.2021. Along with theory classes practical classes are also provided to students .The evaluation of the course was mainly based on their practical knowledge. On 10<sup>th</sup> March 2022 we successfully completed the course.

		ENROLLMENT LIST	
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2	GK20CCSR02	HALEEMATH SALIMA FARISA	T.L
3	GK20CCSR03	ABDUL RAHIMAN SHUHAIB S K	Thirton
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6	GK20CCSR06	KARTHIK KRISHNAN	Red
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## 2022-23

## **1.CERTIFICATE COURSE IN DATA ANALYTICS**





#### **SYLLABUS**

#### Introduction to Python (3 hours)

- Basics of programming and Python
- Setting up a Python environment (e.g., Anaconda)
- Python syntax, variables, and data types

#### Data Manipulation and Analysis (6 hours)

- Working with data arrays and NumPy operations
- Data manipulation with Pandas
- Data visualization using Matplotlib

#### Scientific Computing (6 hours)

- Introduction to SciPy for scientific computing
- Solving equations and optimization
- Numerical integration and differentiation

#### **Physics Simulations (6 hours)**

- Numerical simulations in physics
- Solving differential equations with Python (e.g., ODEs, PDEs)
- Monte Carlo simulations

#### File Handling and Data I/O (3 hours)

- Reading and writing data in various formats (e.g., CSV, JSON)
- Data preprocessing and cleaning

#### Final Projects and Review (6 hours)

- Individual or group projects aligned with physics research
- Regular project updates and peer feedback
- Review of key concepts and skills

#### Assessment and Grading:

- Class participation: 10%
- Homework assignments: 30%
- Midterm project: 20%
- Final project: 30%
- Final presentation: 10%

#### **Recommended Textbook:**

- "Python for Scientists" by John M. Stewart



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#### SUMMARY REPORT

The certificate course in DATA ANALYTICS was meticulously crafted to introduce students to the intricate realm of computational physics while acquainting them with the versatile programming language Python. This amalgamation of theory and practice sparked a palpable enthusiasm among college students, a testament to their eagerness to delve into the world of Python programming. Notably, 35 students from different departments, each harbouring a fervent interest in programming, eagerly seized the opportunity to enroll in this intellectually stimulating course. Embarking on its academic journey on 25.06.2022 the course unfolded in a traditional, face-to-face format. This instructional approach seamlessly interwove theoretical discourse with hands-on exercises, offering students a comprehensive and immersive learning experience. As the weeks progressed, the course remained a beacon of intellectual exploration, culminating in a successful conclusion on 24.09.2022. One of the most striking achievements of this course lies in its ability to empower students in grappling with intricate physical phenomena. By employing the tools of computational physics, which stands as an indispensable pillar of modern scientific research, students gained an invaluable perspective on unraveling the complexities of the physical world. This transformative experience not only broadened their intellectual horizons but also equipped them with a formidable skill set poised to shape their future contributions to scientific inquiry.



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OVERNMENT COLLEG KASARAGOT



#### Open Data Lab - Government College Kasaragod Short Term Course on Data Analytics 2022-23 List of Selected Students

Sl. No.	Name	Department	Class
1	FATHIMA NIDHA RU	Arabic	UG Final Year
2	SIBILA BABU C	Botany	UG Final Year
3	ARYA NANDHA. E. K	Botany	UG Final Year
4	NIREEKSHA R	Botany	UG Final Year
5	HARSHITHA CH	Botany	UG Final Year
6	AMINATH SHEBEEBA	Commerce	UG Final Year
7	SHREYES C S	Commerce	UG Final Year
8	VIPINA M	Commerce	UG Second Year
9	ARJUN K	Computer Science	UG Final Year
10	FATHIMA MAHJABEEN K	Computer Science	UG Final Year
11	ABDUL RAHIMAN SHUHAIB SK	Computer Science	UG Final Year
12	CK YUMNA	Computer Science	UG Final Year
13	KRITHI RAI K	Computer Science	UG Second Year
14	SHARAFA	Computer Science	UG Second Year
15	APARNA VIJAYAN	Economics	UG Final Year
16	KADEEJATH SHAHLA	Economics	UG Second Year
17	AYSHA AYYOOB	Economics	UG Second Year
18	KHADEEJATH RASHIDHA	Economics	UG Second Year
19	FATHIMA NUHA C.R	Economics	UG Second Year
20	DEESHNA P V	Economics	UG Second Year
21	DIYA R M	Mathematics	UG Final Year
22	FATHIMA SHABEEBA	Mathematics	UG Second Year
23	SNEHA.C	Mathematics	UG Second Year
24	SNEHA R	Mathematics	UG Second Year
25	NAVYASHREE. M	Mathematics	UG Second Year
26	NAFEESHATH SAHATHA	Physics	UG Final Year
27	NANDANA NAIR	Physics	UG Second Year
28	RUMAISA	Physics	UG Second Year
29	KHURSHIDA M H	Physics	UG Second Year
30	HRIDHYA MOHAN	Zoology	UG Second Year



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#### Add on Consc. 2022 - 2023 STUDENTS' ATTENDANCE REGISTER

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