

# Certificate Program I N

WATER QUALITY MANAGEMENT

### 30 Hours Program INAUGURATION SRL V. T. SAJIMON Chief Environmental Scientist,

Kerala State Pollution Control Board at 2.00 pm on 19<sup>th</sup> September 2019

for UG/PG Students in Science Discipline

Course Fee: **Rs. 1000/-**Classes on : **Tuesdays & Wednesdays** Time : **2.00 - 3.00 pm** 

For more details Contact Dr. Nify Benny 9995545757

### <u>Certificate Course on Water Quality Management</u> This course contains modules which focus on employability and skill enhancement

### **Syllabus**

### Credits -2

Hours 30

### Learning objectives:

- To create awareness on the different sources of water and their pollution
- To provide a knowledge on water quality parameters and their relevance
- To expertise the learners in sampling and analysis of potable water samples
- To familiarize the various treatment methods conventional and modern methods
- To focus on the recent advances in water quality management.

### **Expected outcomes:**

By the end of this course, the student will be able to

- Know water quality characteristics of water sources including: Groundwater sources, Aquifers, Surface Water sources etc.
- Describe the sampling procedures for different parameters
- Analyze water samples and interpret the results to ensure adequate water quality
- Apply the various treatment methods to required samples to maintain water quality

# Theory paper - Water Quality Management for Sustainable Development (15 hours)

### **Module I- Water Quality Management**

Surface water, water quality evaluation and criteria- Ground water - ground water contamination-Principal sources- harmful effects in man, Soil- Groundwater Protection- Source control and regulatory measures, Recent advances in water quality management.

### Module II- Water Quality Parameters and its Assessment (6 hours)

Water Sampling and preservation, Sampling methods, Water quality parameters- temperature, pH, EC, Colour, turbidity, total dissolved solids(TDS), acidity, alkalinity, total hardness, chloride, fluoride, sulphate, phosphate, nitrate, DO, BOD, COD, Total Coliforms.

### Module III- Water Treatment

Introduction, traditional methods of water treatment, modern treatment methods- separation of suspended matter, Decolourisation of water, Removal of iron and manganese - ion exchange,

### (3 hours)

### (6 hours)

oxidation, chlorination, aeration, flotation. Sedimentation, filtration, ion exchange, desalination, reverse osmosis, electrodialysis. Disinfection- boiling and chlorination, UV light disinfection, ozone in water treatment, wastewater reuse.

### Practical paper - Water Quality Analysis (15 hours)

Analysis of water quality parameters-temperature, pH, EC, Colour, turbidity, total dissolved solids(TDS), acidity, alkalinity, total hardness, chloride, fluoride, sulphate, phosphate, nitrate, DO,BOD, COD, total coliform.

### **References:**

- 1. APHA (American Public Health Association, American water works Association and water pollution control federation). (1992), Standard methods for the examination of water and waste water, Am. Publication Health Association, washington, DC, USA.
- 2. NEERI, Manual on water and waste water Analysis, National Environment Engineering Research Institute Nagpur, (3402) (1986).
- 3. WHO, guideline for drinking water quality Genewa (1984).
- Environmental Protection Agency (EPA). 1990. Fact sheet: drinking water regulations under the Safe Drinking Water Act. Washington, DC: EPA Office of Drinking Water Criteria and Standards Division.
- 5. American Water Works Association (AWWA). 2001. Reinvesting in drinking water structure: dawn of the replacement era. Denver, CO: AWWA.

### Method of Evaluation:

Written Examination – Objective Type Questions	(1 hour - 30 Marks)
Skill Test – Analysis of any one water quality parameter	(30 minutes – 20 marks)



St. Albert's College (Autonomous), Ernakulam Department of Chemistry and Research Centre

### CERTIFICATE

This is to certify that Miss. **PARVATHY V.R.** has completed the **Certificate Programme** in *Water Quality Management* conducted by the Department of Chemistry and Research Centre, St. Albert's College (Autonomous), Ernakulam in the academic year 2019-2020.

Ag

Dr. Nelson Rodrigues Principal

Dr. Nify Benny Coordinator

Dr. Vijay John Gerson Head of the Department

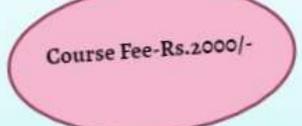
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# Introduction to Internet of Things(IoT)

Certificate Program-45 Hours





# **PROGRAM OBJECTIVES**

- To walk through technology timeline (brief history) and evolution of IoT.
- Gain knowledge about IoT applications across various segments.
- Understand IoT architecture and its building blocks.



Who will benefit from this course?

Fresh Graduates IT Professionals Designers Electrical & Electronic Engineers Existing & Budding Entrepreneurs

Certificate will be given to those who register and write the exam and score greater than or equal to 40% final score.

For more details: mail to - computerscience@alberts.edu.in

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### CSCCP0119-CERTIFICATE PROGRAM IN INTERNET OF THINGS (IoT)

### About the course

Internet of Things (IoT) is presently a hot technology worldwide. Government, academia, and industry are involved in different aspects of research, implementation, and business with IoT. IoT cuts across different application domain verticals ranging from civilian to defense sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water and mining, which are presently transitioning their legacy infrastructure to support IoT. Today it is possible to envision pervasive connectivity, storage, and computation, which, in turn, gives rise to building different IoT solutions. IoT-based applications such as innovative shopping system, infrastructure management in both urban and rural areas, remote health monitoring and emergency notification systems, and transportation systems, are gradually relying on IoT based systems. Therefore, it is very important to learn the fundamentals of this emerging technology.

### **Program Objectives**

- To walk through technology timeline (brief history) and evolution of IoT.
- Gain knowledge about IoT applications across various segments.
- Understand IoT architecture and its building blocks.

### **Program Specific Outcomes**

- PSO1: Competent, and innovative with a strong cognizance in the area of sensors, IoT, data science, controllers and signal processing through the application of acquired knowledge and skills
- PSO2: Apply advanced techniques and tools of sensing and computation to solve multi-disciplinary challenges in industry and society.
- PSO3: To exhibit independent and collaborative research with strategic planning, while demonstrating the professional and ethical responsibilities of the engineering profession.

### **Prerequisites for the Course**

The course is designed for students with at least a basic level of understanding of programming languages, as well as knowledge of computer fundamentals.

### Who will benefit from this course?

Internet of Things has a huge scope of growth for IT professionals, electrical and electronics engineers, designers and solution architects. It is a blessing for existing and budding entrepreneurs who are interested in building smart solutions for their customers. Professionals working in sectors such as pharmaceuticals, real estate, sales, finance, designing, manufacturing, electrical equipment, retail, healthcare, etc. can also benefit from learning about IoT solutions. Fresh graduates and newcomers can also start their career on the right foot with an Internet of Things certification.

### **Detailed course contents**

- Networking fundamentals
- Computer networks, topologies
- OSI reference model
- Brief history of internet
- Brief history and evolution of IoT
- Modern day IoT applications
- Technologies related to IOT
- Connectivity terminologies
- IoT network configurations
- IoT gateways
- Sensing
- Actuation
- Basics of IoT networking
- IoT challenges

### **Course Outcomes**

- Able to understand the application areas of IoT.
- Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor
- Networks.
- Able to understand building blocks of Internet of Things and characteristics.

Syllabus

Credits: 3 creditsTotal Hours: 45 hoursModules: 5

### Module 1 (8 hours)

Definition, Models, LAN, WAN, MAN, Type of connections, Point to point, Multi point, Topology and categories, Mesh, Star, Bus, Ring, OSI Reference, Model, Brief, OSI layers, Introduction to IoT, Origin, Definition, Characteristics, IoT Market Share, Evolution of connected devices, IOT Enablers, Connectivity Layers, Baseline Technologies, M2M, CPS, WoT, Terminological Interdependence

### Module 2 (9 hours)

Connectivity Terminologies, IOT LAN, IOT WAN, IOT Node, IOT Gateway, IOT Proxy, IOT Network Configurations, Gateways, Introduction, IOT Gateways, Multi-homing, IPV4, IPV6

### Module 3 (6 hours)

Sensors-Definition, Transducers, Sensor- Features, Sensor-Resolution, Sensor-Classes, Analog Sensor, Digital Sensor, Scalar Sensor, Vector Sensor, Sensor Types, Sensorial Deviations, Errors

### Module 4 (10 hours)

Actuator –Definition, Actuator –Types, Hydraulic Actuators, Pneumatic Actuators, Electric Actuators, Thermal/Magnetic Actuators, Mechanical Actuators, Soft Actuators, Shape Memory Polymers Actuators, Light Activated Polymers, IOT Components, Functional Components of IOT, Example-IOT Implementation, IOT Interdependencies,

### Module 5 (12 hours)

IOT Service Oriented Architecture, IOT Categories, Industrial IOT, Consumer IOT, IOT Gateways, IOT and Associated Technologies, Technical Deviations from Regular Web (brief), Key Technologies for IOT (brief), IOT Challenges, Considerations, complexity, wireless networks, scalability

### INTERNET OF THINGS (IoT) Instructional Hours – 45 Hrs.

Sl. No.	Topics	Hours
MODULE 1	Networking Fundamentals & Introduction to IOT	8
1.1	Definition	0.5
1.2	Models	
1.2.1	LAN	
1.2.2	WAN	
1.2.3	MAN	
1.3	Type of connections	0.5
1.3.1	Point to point	
1.3.2	Multi point	
1.4	Topology and categories	1
1.4.1	Mesh	
1.4.2	Star	
1.4.3	Bus	
1.4.4	Ring	
1.5	OSI Reference Model	1
1.5.1	Brief	
1.5.2	OSI layers	
1.6	IoT Origin	0.5
1.7	Definition	0.5
1.8	Characteristics	0.5
1.9	IOT Market Share	0.5
1.10	Evolution of connected devices	0.5
1.11	IOT Enablers	0.5
1.12	Connectivity Layers	0.5
1.13	Baseline Technologies	1
1.13.1	M2M	
1.13.2	CPS	

1.13.3	WoT	
1.14	Terminological Interdependence	0.5
MODULE 2	Introduction to IOT-Part II	9
2.1	Connectivity Terminologies	2
2.1.1	IOT LAN	
2.1.2	IOT WAN	
2.1.3	IOT Node	
2.1.4	IOT Gateway	
2.1.5	IOT Proxy	
2.1.6	IOT Network Configurations	1
2.2	Gateways	3
s2.2.1	Introduction	
2.2.2	IOT Gateways	
2.3	Multi-homing	1
2.4	IPV4	1
2.5	IPV6	1
MODULE 3	Sensing	6
3.1	Sensors-Definition	1
3.1.1	Transducers	
3.2	Sensor- Features	0.5
3.3	Sensor-Resolution	0.5
3.4	Sensor-Classes	2
3.4.1	Analog Sensor	
3.4.2	Digital Sensor	
3.4.3	Scalar Sensor	
3.4.4	Vector Sensor	
3.5	Sensor Types	1
3.6	Sensorial Deviations, Errors	1

MODULE 4	Actuation	10
4.1	Actuator – Definition	1.5
4.2	Actuator – Types	3.5
4.2.1	Hydraulic Actuators	
4.2.2	Pneumatic Actuators	
4.2.3	Electric Actuators	
4.2.4	Thermal/Magnetic Actuators	
4.2.5	Mechanical Actuators	
4.2.6	Soft Actuators	
4.2.7	Shape Memory Polymers Actuators	
4.2.8	Light Activated Polymers	
4.3	IOT Components	3
4.3.1	Functional Components of IOT	
4.3.2	Example-IOT Implementation	
4.4	IOT Interdependencies	2
MODULE 5	<b>Basics of IOT Networking</b>	12
5.1	IOT Service Oriented Architecture	3
5.2	IOT Categories	1
5.2.1	Industrial IOT	
5.2.2	Consumer IOT	
5.2.3	Case Studies-Arduino Based	8

### **Suggested Reading**

1. "The Internet of Things: Enabling Technologies, Platforms, and Use Cases", by Pethuru Raj and Anupama C. Raman (CRC Press)

2. "Internet of Things: A Hands-on Approach", by Arshdeep Bahga and Vijay Madisetti (Universities Press)

3. Research papers

### **Important for Certificate:**

Weekly Assignments and Discussion Forum

Final score will be calculated as: 20% assignment score+5% Attendance + 75% final exam score.



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# DEPARTMENT OF ECONOMICS

# FOUNDATION COURSE

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### **ST. ALBERT'S COLLEGE (Autonomous)**

### ERNAKULAM



### **CERTIFICATE PROGRAMME**

**CPHRT-** Foundation Course on Human Rights

# Syllabus

Module 1- Conceptual Background and Framework	
Human Rights prior to 1945	
UN Charter and UDHR	
International Covenants on Human Rights	(5 Hours)
Module II- Meaning and Definition of Human Rights	
Nature, Importance and characteristics of Human Rights	
Bases and sources of Human Rights	
Kinds of Human Rights	(7 Hours)
Module III- Human Rights in India	
Constitutional Provisions (Preamble, Fundamental Rights and DPSP)	
National Human Rights Commission (NHRC)	
Human Rights Movements (Amnesty International and PUCL)	(5 Hours)
Module IV- Challenges to Human Rights	
State and Human Rights	
Human Rights and Terrorism	
Human Rights and Marginalized groups (Dalits, Women and Children)	(8 Hours)

**Moot Court Training Sessions** 

(5 Hours)

2019- 20

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### ST.ALBERT'S COLLEGE (Autonomous) DEPARTMENT OF ECONOMICS



# Certificate program in BANKING & RBI B GRADE OFFICER'S TRAINING

- · 60 Hours program
- Olifvesdays & Wednesdays
- · 2pm 3 pm
- Course fee: 2000 + material
- Best study materials
- Mock tests
- Internal and external faculties

Class starts on 16th August, 2019

- Course coverage:
- **RBI Bulletin**
- Current Affairs
- Economic Concepts
- TORA & TONA

### MONTH: ST ALBERT'S COLLEGE (AUTONOMOUS), ERNAKULAM

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### ST. ALBERT'S COLLEGE (Autonomous)

### ERNAKULAM

### **CERTIFICATE PROGRAM**

### BANK MANAGEMENT

ADD ON COURSE for Undergraduate Program

60 Hours Duration – credits: 4

**BANK MANAGEMENT** 

### PROGRAM OBJECTIVES (POs)

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**PO-1** Critical Thinking and Problem-Solving Skills: To develop an informed and analytical approach to learning and demonstrate an in-depth knowledge of the subject and to give his/her opinion supported by logical reasoning and problem-solving skills.

**PO-2** Employability in Banking sector: To develop skills and capabilities to employ in banking sector

### **PROGRAM SPECIFIC OUTCOMES (PSOs)**

PSO-1 To provide students well founded education in Bank Management

PSO-2 To provide structured curricula which support the academic development of students.

PSO-3 To provide and adapt curricula that prepares our graduates for employment in banking sector

PSO-4 To provide students with the opportunity to focus on applied and policy issues in Economics.

CO	Course Outcomes	PSOs	Cognitive
No.		Addressed	Level
CO- 1	Students are able to comprehend the working of banks and to familiarize with the basic principles and concepts which are often used in banking literature.	1,2,3,4	U

### **CERTIFICATE PROGRAM IN BANK MANAGEMENT**

### **SYLLABUS**

### Module 1

TORA, TONA, TOEL – aptitude tests – (15 hours)

### Module 2

-Micro & Macro Economics-

- Consumer behavior & firms, value of factors of production.
- Markets: Monopoly, Perfect & Imperfect competitions
- General equilibrium of price & activity, economic welfare, policy interventions
- National income & its components, basic macro identities & macro balance.
- Major Macro Economic school of thoughts: Classical, Keynesian & Monetarist.
- Consumption & Investment demand, Demand management.
- Money demand & supply.

### Module 3

-Growth & Development-

- Measurement of growth: National income & per capita income.
- Sustainable development & environment issues.
- India's experiments with planned development models & its outcomes.
- Structural issues:-

Savings & investment, demography, urbanization,

Productivity, poverty, inequality, employment.

- Agriculture: Policy & developments.
- Role of Public sector enterprises in the key economic sectors.
- India's service sector, trade, tourism & communication.
- Human Development.

### Module 4

- -Social Structure & Public Economics-
- Multi-culture & Demographic trends.
- Urbanization & migration.
- Gender issues & social movements.
- Indian political system.
- Public Goods & Public Finance.
- Taxes :-

Direct & indirect, income taxation, corporate taxation,

Efficiency, cost & commodity taxes.

• Financial sector reforms & regulations(Banks, insurance & capital market)

- Fiscal policy & changing priorities.
- Monetary policy & its new role.
- Government expenditure policy:- various components.
- Government Debt & crowding out of private capital
- Deficit financing & its impact on economy.

### Module 5

-Trade & International Economics-

- Economic reforms in India
- Industrial & labor policy, Monetary & fiscal policy
- Privatization & Role of economic planning.
- Globalization & Indian Economy.
- BOP & export- import policy.
- International economic institutions (IMF, World Bank, WTO) & Regional economic co-operation.
- Benefit of international trade: comparative & absolute advantage & its effect.
- Customs union & its impact.
- International finance & exchange rate issues in an open economy.
- International financial market:- Evolution, Benefits & Costs.

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- 20% assignment score is calculated as 20% of average of Best 8 out of 12 assignments.
- Certificate will be given to those who register and write the exam and score greater than or equal to 40% final score.



Open to

All

Students

# ST. ALBERT'S COLLEGE (AUTONOMOUS), ERNAKULAM

# DEPARTMENT OF LOGISTICS MANAGEMENT

Conducts

# CERTIFICATE PROGRAM PERSONAL ENHANCEMENT LAB

GOAL: To give each student a realistic perspective of work behaviour and work expectations.

CLASSES ON: TUESDAY & WEDNESDAY TIME: 2-3 PM

30 HOURS

PROGRAM

COMMENCES

ON:

24<sup>th</sup> September

2019

COURSE FEE: Rs. 2000/- (can be paid in two instalments, nonrefundable)

> FOR MORE DETAILS CONTACT Asst. Prof : Neenu Jose Mob: 9895662294

Push Yourself To Places You Haven't Been Before ...

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### PERSONAL ENHANCEMENT LAB

### PROGRAM SPECIFIC OUTCOMES (PSOs)

- Enable students to cope with rapid change, train them in specific areas to develop new knowledge, attitude and skills for a balanced lifestyle, both personally and professionally.
- Harness your personal power and organize your life towards achieving your goals.

### PROGRAM OUTCOMES (POs)

- Plan for and get the career that the students desire.
- Become a more effective communicator.
- Better understand and communicate with the stakeholders of corporate world.
- Discover your behavioral style and learn strategies for recognizing and working with people of differing styles.
- Improve and develop public speaking and presentation skills.

### **COURSE OUTCOMES (COs)**

Course Title	*Skill/ General* *PERSONAL ENHANCEM	ENT LAB*	
Code	*Subject Code*		
CO No.	Course Outcomes	PSOs	Cognitive
		Addressed	Level
1	Participants will develop social skills, work	1	AP
	life skills, emotional maturity and emotional		
	health.		
2	Development of leadership skills to improve	2	C
	teamwork, creativity, efficiency & amp;		
	productivity.		
3	Development of presentation skills to enhance	1	AP
	sales, project explanations, self-		
	confidence, relationship development.		

### Syllabus

### **MODULE 1: PERSONAL SKILLS**

- Soft skills Importance of soft skills how to improve soft skills
- Knowing yourself Importance and process of knowing yourself SWOT analysis
- Positive attitude Features and sources of attitude Attitude in workplace
- Values Types and sources of values
- Perception Factors influencing and improving.

### **MODULE 2: SOCIAL SKILLS**

- Listening skills Benefits, kinds and factors hamper listening
- Observation Benefits of observation
- Types of communication Channels Types of nonverbal communications Tips of effective communication

### MODULE 3: PERSONALITY DEVELOPMENT

- Manners practicing good manners
- Body Language Parts importance and improving body language
- Grooming men and women
- Etiquettes Benefits business etiquette dinner etiquette email etiquette telephone etiquette -
- Accompanying Women.

### **MODULE 4: PRESENTATION SKILLS**

- Group discussions Tips, Types and skills required for Group Discussion
- Public speaking Factors
- Interview stress interview techniques for successful interview interview skills

### **MODULE 5: PROFESSIONAL SKILLS**

• Leadership and Types of leadership

- Team building skills needed for teamwork model of team building Characteristics of effective team role of effective team leader and team members
- Technical correspondence Formal letter writing
- Job oriented skills



# A Certificate Course on NUMERICAL & REASONING ABILITY



A O Konnully Memorial Research Centre Department of Mathematics St. Albert's College (Autonomous) Ernakulam – 682018 In this flexible, hands-on program, you'll have the opportunity to attend instructor-led sessions, receive expert feedback on your progress, and access career coaching services. Upon completing the 3-months Certificate Course, you will:

- Have fulfilled the requirements necessary for attempting Numerical Ability Questions for the various PSC examinations, UPSC examinations, Banking related Examinations and even entrance examinations of different educational institutions
- Receive a Certificate issued by St. Albert's College (Autonomous), Ernakulam
- Have more than 100,000 annual job openings requires Numerical Skill

# Who can apply to this Certificate Course

- Any student doing degree or Master's, who are interested in pursuing career in various administrative levels of Government organization and Banking Sectors.
- Anyone who currently prepares for PSC examinations and other entrance examinations

### **Course Structure**

Program tuition covers all course content, projects, and resources. You need to pay for the course in the beginning of the class:

- Course Fee : Rs. 1000
- Course Duration : 30 Hrs (2 Credits)
- Course fee does not include the required companion text.
- Student intake : 25

### How the Certificate works

When you complete this Certificate Course, you'll be:

- Qualified to understand, evaluate and solve Numerical & Logical ability related questions.
- Prepared to apply techniques to solve numerical problems.
- · Ready to apply to one of the many job openings that list numerical ability as a required skill.

# **Program Details**

There are no prerequisites for this Certificate. If you are not already familiar with basic Mathematics, you may get acquainted with 12<sup>th</sup> Standard Mathematics before beginning this Certificate Course.

# Services Available

As a Certificate Course Learner, you'll have access to premium services to help you succeed. Services include:

- Instructor-led sessions
- Regular instructor communication via email
- Expert feedback on assignments
- Tracking career coaching services
- Reference Books from Library of St. Albert's College

# Highlights

- Short, targeted online readings
- Practice exercises
- · Peer-reviewed projects (with additional expert feedback)
- Comprehensive Final Examination

### Content

Content in this program is available online and can be accessed from anywhere. Core content includes:

- Number System
- Number Series
- Simplification of Numbers
- Percentage Calculation
- Profit, Loss & Discount
- Ratio & Proportion
- Problem based on ages
- Coding and decoding
- Ranking Sequence
- Sitting Arrangement
- Blood Relationship
- Direction Sense Test

# Mensuration

- Input-output
- Probability
- Statement & conclusions
- Statement & assumptions
- Statement & arguments
- Decision Making
- Data Sufficiency
- Data Interpretation
- Project & Viva

# **About Department of Mathematics**

The Post-Graduate and A O Konnully Memorial Research Department of Mathematics conduct Bachelor's Degree Course in Mathematics (B.Sc Mathematics - 1947) and also a Masters Degree Course in Mathematics (M.Sc Mathematics - 1964) with specialization in computer/mathematical programming. The department is also an active research unit of the Mahatma Gandhi University. There are 11 full time faculty members in the department.

### About Rev.Dr.Augustine O. Konnully

Rev. Dr. Augustine O. Konnully served St.Albert's College as a Mathematics Professor during the period 1949-1983 and as Principal during 1973-78. He was a great mathematician and philosopher acclaimed nationally and internationally. He published his research papers in international journals like American Mathematical Monthly, Journal of London Mathematical Society, Academia Nazionie Dei Lincei(Italy), Beitra Zur Algebra and Geometrie (Germany). The Journal of the Australian Mathematical Society etc. His works include "Perspective Simplexes and Tucker Quadrics", "IsogonalConjugates in  $E^n$ ", "Pivot Theorems in n-Space", An Incidence Relationship of Hypersphere in  $E^n$ ", and so on. He introduced a new concept in mathematics which holds the name "Vector Multipliers". He was the first person to acquire Ph.D in Mathematics from the University of Kerala at the time when this was the only University in Kerala.

# Faculty Members for the Certificate Programme:

- Dr. Sabu M C, M Sc, M Phil, Ph D
- Dr. Shery Fernandez, M Sc, M Phil, Phil
- Ms. Divya Mary Daise, M Sc, M Phile
- Dr. Sajithamony T, M Sc, Ph D
- Ms. Amritha T K, M Sc

### **Course Coordinator:**

Dr. Sabu M C, M Sc, M Phil, Ph D Email: saboochacko@gmail.com Mobile: 9447603122



### Name of the Course: Numerical and Reasoning Ability

### **Duration: 3 Months**

### Hours per week - 2

### Aim of the Course:

When you complete this certificate course, you'll be:

- Qualified to understand, evaluate and solve numerical and logical ability related questions.
- Prepared to apply techniques to solve numerical problems.
- Ready to apply to one of the many job openings that list numerical ability as a required skill.

### **Objectives of the course:**

- To read & understand the question first before answering.
- To know about BODMAS (Brackets, Order, Divide, Multiply, Add, Subtract) & workout problems implementing the rule.
- To use common sense to solve questions that are real life oriented (like distance, age, time)
- To learn shortcut methods or formulas to solve a question quickly.

### **Syllabus Content**

### Unit 1

Number system, number series, simplification of numbers, percentage calculation, profit, loss and discount, ratio and proportion.

### Unit 2

Problem based on ages, coding and decoding, ranking sequence, sitting arrangement, blood relationship, direction sense test.

### Unit 3

Mensuration, input-output, probability.

### Unit 4

Statement and conclusions, statement and assumptions, statement and arguments.

### Unit 4

Decision making, data sufficiency, data interpretation.

### **Method of Evaluation**

Attendance – 25% Examinations - 50% Project -25%

### Number of credits - 2

### 5 hours

5 hours

10 hours

### 5 hours

### 5 hours

### **Learning Resources**

### Textbook

- 1. Quantitative Aptitude for Competitive Examinations Dr. R.S.Aggarwal S.Chand and Co.
- 2. A Modern Approach to Verbal & Non-Verbal Reasoning Dr. R.S.Aggarwal S.Chand and Co

### References

- 1. Quantitative Aptitude for Competitive Examinations Abhijit Guha Tata McGraw Hill
- 2. Objective Arithmetic by S.L. Gulati
- 3. Verbal and Non Verbal Reasoning B.S. Sijwali Arihant Publications
- 4. How to Crack Test of Reasoning in All Competitive Exam Jaikishan, Premkishan

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German Language Class.jpg



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### SYLLABUS GERMAN LANGUAGE COACHING CLASS

Course objectives: Demonstrate a basic level of communicative proficiency in the German language. Interact and negotiate meaning in spoken and written conversations to share information, reactions, feelings, and opinions.

Course outcomes:

Students can engage in cross-cultural dialogue and experiences through participation in curricular, co-curricular, and/or study abroad programs.

Total Hours : 9 x 2 = 18

DAY 1	Greetings and German alphabets
DAY 2	Self introduction
DAY 3	Common verbs
DAY 4	Time
DAY 5	Numbers and dates
DAY 6	Sentence structure
DAY 7	Question words and tenses
DAY 8	Usage of haben, sein
DAY 9	Diary writing

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