



Education to Excel

SBRR Mahajana First Grade College (Autonomous)

Jayalakshmpuram, Mysuru - 570 012

Affiliated to University of Mysore & Accredited with 'A' Grade by NAAC

College with Potential for Excellence

Department of Computer Science & IQAC

organises

Seminar on

**Problem Solving
& Algorithmic Thinking**

Resource Person

Sri Akshay S

Vice Chairperson

Asst. Professor, Computer Science
Amrita School of Arts & Sciences, Mysuru.

Date: 23.12.2022

Time: 10.30 AM to 1.30 PM

Venue: AVC-I

All are Welcome

HoD & Staff
Department of Computer
Science

Dr. S R Ramesh
Chief Executive Officer
& Academic Advisor

Dr. B.R. Jayakumari
Principal















**Mahajana Education Society (R)
Education to Excel**

SBRR Mahajana First Grade College (Autonomous)

Jayalakshmiapuram, Mysuru – 570 012 Karnataka, INDIA
Affiliated to University of Mysore Re-Accredited by NAAC with 'A'
Grade, College with Potential for Excellence

Date:23/12/2022

Report on Interactive Session-Problem Solving and Algorithmic Thinking

SBRR Mahajana First Grade College, Mysore had organized an Interactive Session on "Problem Solving and Algorithmic Thinking". The Department of Computer Science. The resource person was Sri Akshay S, Vice chairperson and Asst. Professor, Department of Computer Science, Amrita Vishwa Vidyapeetam, Mysuru, campus. The session was in two parts.

In the first part of the programme the speaker explained how one could approach Problem solving process by creating a series of systematic logical steps based upon the problem. He also explained scenario of the problem - Gathering the requirements, Analysis, Designing the solution, Decomposition, Abstraction, Implementation and strategies such as problem solving, logical reasoning, decomposition and abstraction .

The resource person stressed on the importance of Algorithmic Thinking, and he also explained the Problem Definition(Analysis, Design and Implementation) and also the benefits of Flowgorithm. A significant benefit of using Flowgorithm is one would be able to create a complete plan for one's application using a flow chart only, With the help of this flow chart, one can know about every single step that takes place in one's product or application. One can be able to use this application easily. By using flowcharts, students can concentrate on programming concepts rather than only the typical programming language. Students can also run the programs directly in Flowgorithm. Once students understand programming logic, it is easy for them to learn one of the major languages. Flowgorithm can interactively convert the flowchart to over 18 languages. These include: C#, C++, Java, JavaScript, Lua, Perl, Python, Ruby, Swift, Visual Basic .NET, and VBA (used in Office). Flowgorithm is a graphical authoring tool which allows users to write and execute programs using flowcharts. The approach is designed to emphasize the algorithm rather than the syntax of a specific programming language. The flow chart can be converted to several major programming languages. Also, he discussed about features of Flowgorithm such as Easy to understand output, Graphical variable watch window, Interactively generate real code (18+ languages), Safe recursion, Loops, arrays, and flexible expressions and Multilingual support.

In the second half of the session the speaker demonstrated Flowgorithm which is an open-source software tool through which the students can easily design the flowcharts and algorithms for the problems. The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows. This diagrammatic representation illustrates a solution model to a given problem. Flowcharts are used in analyzing, designing, documenting or managing a process or program in various fields. Flowgorithm is a useful tool for teaching programming concepts, as it helps students to understand the logic of code. Flowgorithm is user-friendly and easy to learn, even for those with no programming experience. Flowgorithm supports both flowcharts and pseudocode, which allows users to switch between them as per their preferences. Flowgorithm generates source code in a variety of programming languages, including Python, Visual Basic, C++, Kotlin, and Java, which can save time and effort.

Dr.B.R. Jayakumari, Principal, and Smt. Shruthy Poonacha Head of the Department of Computer Science and the staff members of the department were present. I,II and III year B.Sc Computer Science students were the beneficiaries of this interactive session. Mainly the students of Non-Computer Science Background benefited from this session. Positive feedbacks were given by the students who actively participated in the interactive session.

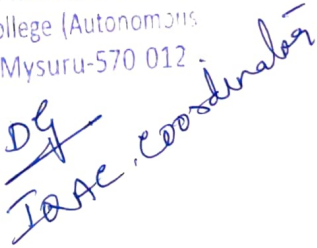


Dr.B.R.Jayakumari

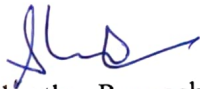
Principal

PRINCIPAL

Smt Bhagyalakshamma Rattehalli Ramappa
Mahajana First Grade College (Autonomous)
Jayalakshampuram, Mysuru-570 012



IOAC Coordinator



Smt.Shruthy Poonacha


HOD of Computer Science

Attendance Sheet

Name of the Committee: DEPT. OF COMPUTER SCIENCE Date: 23/12/2022

Name of the Programme: SEMINAR ON PROBLEM SOLVING AND ALGORITHMIC THINKING Time: 10:30-1:30 PM

Sl. No.	Name of the Student	Course	Semester	Section	Combination	Signature
1	Chitra S.N	BSC	I	-	Pcs	<u>Chitra</u>
2	Sagarika K.A.	BSC	I	-	Pe MCS	<u>Sagarika</u>
3	Thejaswini N.R.	BSC	I	-	MCS	<u>Thejaswini N.R.</u>
4	Deekshitha P.	BSC	I	-	MCS	<u>Deekshitha P.</u>
5	Renuka shree T.S	BSC	I	-	Pcs	<u>Renuka</u>
6	Ramya K	BSC	I	-	Pcs	<u>Ramya K</u>
7	Madhusree G.S.	BSC	I	-	MCS	<u>Madhusree</u>
8	Anchitha R	BSC	I	-	MCS	<u>Anchitha R</u>
9	Susriya H.D	BSC	I	-	PM	<u>Susriya</u>
10	Naman Ponnanna KD	BSC	I	-	MCS	<u>Naman</u>
11	Kanishk kumar Singh	BSC	I	-	MCS	<u>Kanishk</u>
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 Principal
 SBRR Mahajana First Grade College
 (Autonomous)
 Jayalakshmpuram, Mysuru-570 012

Total No. of Students Attended: **11**

Signature of the Teacher In charge:

Organizing Secretary

Signature

Nandini K.S

Name: NANDINI K.S.

II YEAR BSc (PMCS)

College with potential for Excellence
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SBRR Mahajana First Grade College

Jayalakshimpuram, Mysuru - 570 012

Attendance Sheet

Name of the Committee: DEPT. OF COMPUTER SCIENCE

Date: 23/12/2022

Name of the Programme: SEMINAR ON PROB SOLVING AND ALGO THINKING

Time: 10:30 - 1:30 AM PM

Sl. No.	Name of the Student	Course	Semester	Section	Combination	Signature
1	Ganavi. K	BSC	II nd	-I-	PMCS	
2	B.S Mahalakshmi	BSC	III rd	-II-	PMCS	
3	Sahana V	BSC	III rd	-II-	PMCS	
4	Sindhu. K	BSC	III rd	-II-	PMCS	
5	Avinash. B.N	BSC	III rd	-	PMCS	
6	Jeevan. T.R	BSC	III rd	-	PMCS	
7	Mohammed Baad	BSC	III rd	-	PMCS	
8	Nandini. K.D	BSC	III rd	-	PCS	
9	Pranjwal. M.J	BSC	III rd	-	MCS	
10	Rachitha. H. M	BSC	III rd	-	PCS	
11	Indupriya. P	BSC	III rd	-	MCS	
12	Roopashree. G	BSC	III rd	-	MCS	
13	Kalpana. V	BSC	III rd	-	MCS	
14	Meenuwa. R	BSC	III rd	-	MCS	
15	ASHRAF. Z	BSC	III rd	-	PCS	
16	Madon MR.	BSC	III rd	-	MCS	
17	Sachith S	BSC	III rd	-	PMCS	
18	Sagar. R	BSC	III rd	-	MCS	
19	Leg Manoh Heg	BSC	III rd	-	MCS	
20	Vinay S	BSC	III rd	-	MCS	
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Total No. of Students Attended: 20

Signature of the Teacher In charge:

Organizing Secretary

Signature

Name: NANDINI. K.S.

Principal
SBRR Mahajana First Grade College
(Autonomous)
Jayalakshimpuram, Mysuru-570 012

III YEAR BSC (PMCS)

College with potential for Excellence
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SBRR Mahajana First Grade College

Jayalakshimpuram, Mysuru - 570 012

Attendance Sheet

Name of the Committee: DEPT. OF COMPUTER SCIENCE

Date: 23/12/2022

Name of the Programme: SEMINAR ON PROBLEMS & ALGORITHMS

Time: 10:30AM - 1:30PM

Sl. No.	Name of the Student	Course	Semester	Section	Combination	Signature
1	Sahana.S.Y	BSc	V th Sem	-	PMCS	[Signature]
2	Syedra Fiza Mohamadi	BSc	V Sem	-	PMCS	[Signature]
3	Harshitha	BSc	V Sem	-	PMCS	[Signature]
4	Aapitha	BSc	V Sem	-	PMCS	[Signature]
5	Rakshita Gowda					[Signature]
6	Darshan. S					[Signature]
7	Gurur Darshan. H					[Signature]
8	Sandeep.M					[Signature]
9	Naveen. U.S					[Signature]
10	N. & Shivachandria					[Signature]
11	H. M. Shivkumar					[Signature]
12	Charan. G	BSC	V Sem	-	PMCS	[Signature]
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[Signature]
Principal
SBRR Mahajana First Grade College
(Autonomous)
Jayalakshimpuram, Mysuru-570 012

Total No. of Students Attended: 12

Signature of the Teacher In charge:
Signature Nandini. K.S.

Organizing Secretary

Name: NANDINI.K.S.