Centenary Celebrated Sharanabasaveshwar Vidya Vardhak Sangha's

Sharanabasaveshwar

College of Science Kalaburagi 585 103

(Diamond Jublilee Celebrated 1956-2016, ISO Certified 9001-2015)

Welcome to

Two Day Workshop on

" Robotics: Hardware App Prototyping "

Organize

Dept. of Electronics & Dept. of Mathematics

In Association with

CLEVER BIT SOLUTIONS, BANGALORE

"IQAC Initiative"

Date: 18th Jan. 2020 & 19th Jan. 2020

Chief Guest :

Dr. S. N. Mulge

Professor & Chairman, Gulbarga University, Kalaburagi

Resource Person :

Mr. Suresh

Consuliting Trainer, Clever Bit Solutions, Bangalore

President :

Dr. Sannabasanagouda G. Dollegoudar

Principal,

Sharnbasveshwar College of Science, Kalaburagi

Dr. S.T.Sulepetkar
IQAC Coordinator

Dr. T. V. Biradar
IQAC Co-cordinator

Smt. Jagadevi C. G.
Programme Co-ordinator

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Principal,

Sharnbasveshwar College of Science, Kalaburagi

PRINCIPAL
SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARGA

Coordinator
IQAC

Dr. S. T. Shirpetkar	Dr. T. V. Biradar	Smt. Jagadevi C. G.
IQAC Coordinator	IQAC Co-cordinator	Programme Co-ordinator

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SHARANABASVESHWAR COLLEGE OF SCIENCE, KALABURAGI

TWO DAYS HANDS-ON WORKSHOP ON

ROBOTICS: HARDWARE AND APP PROTOTYPING

START DATE : JANUARY 18, 2020. END DATE : JANUARY 19, 2020.

SESSION	TIME	Practical Activities
1	10:00 AM to 12:00 AM	**Hands on Training** By the end workshop students will be covering 5-6 Activities using the kit provided to the students
BREAK	12:00 AM to 12:15 PM	
2	12:15 PM to 1:15 PM	
BREAK	1:15 PM to 2:00 PM	
3	2:00 PM to 3:30 PM	
BREAK	3:30 PM to 03:45 PM	
4	03:45 PM to 5.00 PM	

Resource Person	**Mr. Suresh,** Consulting Trainer, Clever Bit Solution, Bangalore
Chief Guest	**Dr. S.N. Mulgi,** Professor & Chairman Dept. of Electronics, GUK
Program Coordinator	**Smt. Jagadevi C.G,** Asst. Professor, Dept. of Electronics
IQAC Coordinator	**Dr. S.T Sulepetkar,** Asso. Professor, Dept. of Electronics
IQAC Co-Coordinator	**Dr. T.V. Biradar,** Asst. Professor, Dept. of Mathematics.

DESCRIPTION

Contents of Two days Hands-on Workshop

INTRODUCTION HARDWARE PROTOTYPING:

- Introduction to Electronics and Embedded Systems
- Introduction to Robotics

INTRODUCTION TO ARDUINO

- What is Arduino
- Different types of Arduino boards
- How does the Arduino Uno board work and why it's so popular
- What is a microcontroller
- How to use the Arduino IDE (Integrated Development Environment)
- Powering and connecting your Arduino to your computer
- Uploading programs to your Arduino board
- Learning about Arduino Shields and their usage

BLOCK PROGRAMMING: DECISION MAKING AND USING LOGIC

- Using **'If'** statements
- Using **'while'** loops
- Using **'for'** loops
- Using **maths** in Arduino
- **Activity and Quiz**

INTRODUCTION APP PROTOTYPING:

- App Explanation
- App Inventor
- Build a Basic App
- **Activity and Quiz**

BASIC LEVEL: INPUT AND OUTPUT CONTROLLER

- How to properly structure your code
- Using variables to write more capable programs
- Reading inputs and controlling outputs using the digital and analog pins
- Communicating via the serial port
- **Activity and Quiz**

LEDs

- Blinking of LEDs
- Fading of LED
- Circling of LEDs
- Traffic light system and many more.

SERIAL MONITORING

- Reading Analog and Digital input
- Controlling LED using push button
- Controlling LED using Analog input

CONNECTING SENSORS and ACTUATORS:

Interfacing Digital/Analog Sensors with Arduino

- Sound Sensor
- Light Sensor
- Humidity Sensor
- Temperature Sensor
- Ultrasonic Sensor
- LDR
- Potentiometer
- Gas sensor
- Soil Moisture Sensor
- **Activity and Quiz**

DRIVER SYSTEM

- H-Bridge Circuit
- Arduino Motor Shield
- DC Motor Construction
- DC Motor Operation
- DC Motor Speed Control
- Drive System Build
- Drive System Sketch & Experiment
- How Servos Work
- Servo Sketch & Experiment
- **Activity and Quiz**

WIRELESS COMMUNICATIONS

- HC 05 Bluetooth module interfacing
- **Activity and Quiz**

MAKING A ROBOT AND SOLVING PUZZLES

- **Activity and Quiz**

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Brief Bio-data of Dr. S. N. Mulgi

Dr. S. N. Mulgi has born in the village so called Bombalgi in Bidar District. He has completed his graduation from B. V. B. College, Bidar. He received his M.Sc. M. Phil and Ph. D degrees from Gulbarga University, Kalaburagi in the year 1986, 1989 and 2003 respectively. He is the recipient of two gold medals for his First Rank in M.Sc. He served in Degree and Engineering Colleges from 1989 to 1995. Since 1995 he has been working in the Department of PG Studies and Research in Applied Electronics, Gulbarga University, Kalaburagi. From 2010 he is working as Professor in this Department. During April 2010 – 2012 Dr. S. N. Mulgi has served as Chairman of Applied Electronics Department. Again from 12th April 2018 to till date he is working as a Chairman of the same Department. He is working as RUSA, Nodal Officer, Gulbarga University, Kalaburagi project sanctioned by MHRD, New Delhi worth of Rs. 20 crores and involved in many administration work assigned by the University. He served as the Chairman of BOS and Chairman and member of BOE for various university within and outside the state. He has got more than 30 years of research and teaching experience at PG level. He has engaged research work mainly in the field of Microwave Communication for the design and development of planar devices for various microwave communication applications. Dr. S. N. Mulgi has published more than 300 research papers in International, National Journals, Conferences, Symposium, Seminars etc. His research findings have appeared in many reference books. His papers have been selected as the best papers in several Conferences.

Under the guidance of Dr. S. N. Mulgi so far Eleven Ph. D and ten M. Phil degrees have been awarded. Presently several students are working under his guidance for Ph.D. Dr. S. N. Mulgi has successfully worked as co-investigator and completed the projects sanctioned by DST, UGC New Delhi. He is the reviewer of many National and International Journals. He served as the advisory committee member of various National and International Conferences, Seminars etc. He has delivered several key note addresses, valedictory talks, chaired the technical sessions and presented technical talks in various National and International Conferences. He has delivered many popular science lectures to promote science awareness among the students and for teachers within and outside the state. Prof. S. N. Mulgi has published science article books in Kannada through prasaranga. One of his book is appeared as text book for B. Sc, BCA and BSW students from the academic year 2018-19. Dr. S. N. Mulgi has received prestigious Gulbarga University Karnatka Rajyotsava Award 2018 for writing science book in Kannada.

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ARTIFICIAL INTELLIGENCE : A ROBOTICS

By

Dr. S.N.Mulgi M.Sc. M.Phil. Ph.D

Professor and Chairman

Department of PG Studies and Research in
Applied Electronics,
Gulbarga University, Gulbarga – 585 106.

WHAT IS A.I.?

1)The study of computer systems that attempt to model and apply the intelligence of the human mind.

2) A branch of computer science dealing with the simulation of intelligent behavior in computers.

3) The capability of a machine to imitate intelligent human behavior.

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Why AI?

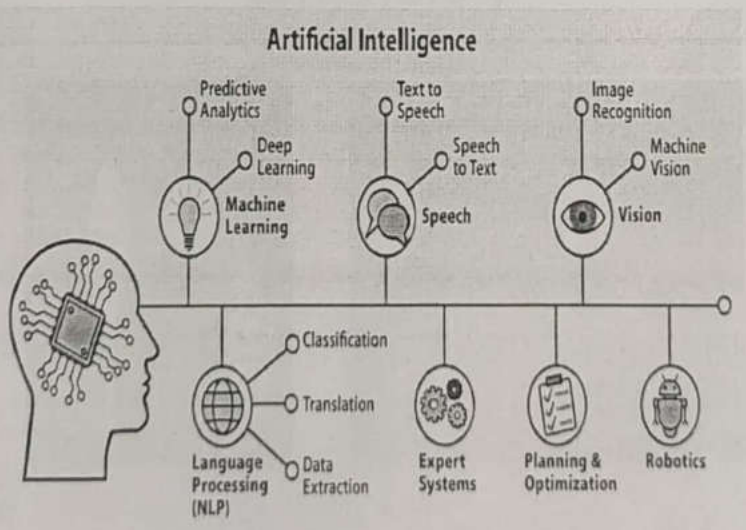
Because ___.

. To use power of computers to augment human thinking.

. Robotics and expert systems are major branches of that.

. The other is to use a computer's AI to understand how humans future thinking.

AI performs.....



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Google Now, Siri and Cortana are all intelligent digital personal assistants on various platforms (iOS, Android, and Windows Mobile). In short, they help find useful information when we ask for it using our voice.

We can use them to make calls, send messages, set reminders, take notes, recognize music, find great restaurants, check your calendar, and more.

Early History

- In 1950 English mathematician Alan Turing wrote a landmark paper titled "Computing Machinery and Intelligence" that asked the question: "Can machines think?"
- Further work came out of a 1956 to realize this question through AI.

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RISE of AI: Make machine to work like man

CURRENT STATUS OF AI

- **AI have taken many shapes and forms over recent years**
  - Mobile Phones (Siri/ Cortana)
  - Video Games Characters
  - GPS/ Voice Recognition
  - Robotics .
- **Google has been a major play on AI transcendence and Deep Learning.**

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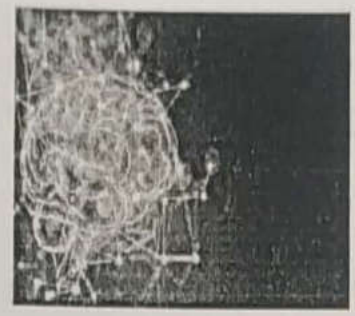
CHALLENGES OF AI:

- Computing Power
- Tolerance
- Instant decision
- Judging



FUTURE OF AI :Some examples

AI areas are going to be hugely important in the near future.

- **Self Driving Cars.**
- **Improved Medical Care & Treatment.**
- **Automation to future explorations.**
- **Etc.**

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Significance of AI: Some Areas

- Space exploration.
- Precision and Accuracy.
- Diagnosis and Treatment .
- Function without stopping.
- Risk Reducing.
- Robotic pets.
- Robotic radio surgery.
- Can do repetitive and time-consuming tasks.
- Lacking the emotional side.
- Can do laborious tasks.
- Used for mining process etc..

Finally, we say that,

"The AI of Science and Engineering mainly making intelligent Machines for Mankinds"

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Sharanabasaveshwar College of Science, Kalaburagi

Department of Electronics & Mathematics

A Brief Report on ROBOTICS

Workshop Theme	: **Hardware and APP Prototyping**
Date of Conduct of Workshop	:**18 and 19 th Janaury 2019**
In Association with	: **" Clever Bit Solutions, Bangalore"**
Resource Person	: **Mr.Suresh Patil, Consulting Trainer, Clever Bit Solutions, Bangalore**
Organizing Departments	: **Department of Electronics & Mathematics**
Venue	: **Department of Electronics**
Number of Participants	: **52**
Fees Collected from Students	: **20800/-**
Funds Contributed by College	: **20800/-**
Chief Guest of The Function	: **Dr. S.N. Mulgi, Professor and Chairman , Department of Electronics, Gulbarga University Kalaburagi**

A two Day Workshop on ROBOTICS: Hardware and APP Prototyping was conducted by Departments of Electronics and Mathematics exclusively for students. Altogether there were eight sessions for two days. All the Eight sessions were comprised of both theory and practical's. The Students underwent hands on experience. The Kit and other materials were provided by the Clever Bit Solutions, Bangalore. The Thrust was given in the workshop to learning components like Blinking of LED's are controlled through software, Use of sensors in controlling the DC motors, Servo meter, Driver system. Sound Sensor, Humidity Sensor and interfacing of these devices and making ROBOT.

The inaugural and valedictory functions were held and Principal of the College Dr. Sannabasannagouda G Dollegoudar Presided over. The Program was coordinated by Dr. Jagadevi. Gudda , Department of Electronics and Dr. Trimbak Biradar, Department of Mathematics.

The Students expressed their deep sense of gratitude for helping them to undergo this workshop as well as for the financial help extended by the College to conduct this workshop, as each student was paid Rs. 400/- (Four Hundred only). The Break fa0st, Lunch and Tea was provided by the College. The Students submitted their Feedback and expressed their happiness over the conduct of the workshop.

Coordinator
IQAC

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Sharanbasveshwar College of Science, Kalaburagi

Two day Workshop on " **Robotics : Hardware and App Prototyping** " .

A Report:

Department of Electronics and Department of Mathematics, Organises a two days workshop on **Robotics : Hardware and App Prototyping** in association with Clever Bit Solutions, Bangalore on 89th and 19th January 2020.The purpose of Organizing this workshop is make aware the students regarding the importance, functioning and Applications of Robotics and Artificial Intelligence.

The Chief Guest of the two days workshop is Dr. S .N. Mulgi, Professor and Head Department of Electronics, Gulbarga University, Kalaburagi. Sir has briefed the Artificial Intelligence: Importance, Functioning and Applications with Examples. And Another Guest from Industry is Mr. Suresh, Consulting Trainer, Clever Bit Solutions, Bangalore who has given Hands on training for the Students for two days. Dr. Sannabasavanna G. Dollegoudar, Principal Sharnabasveshwar College of Science, Kalaburagi Presided over the Function encourage the students to participate in such workshops where practical hands on training will be given. Sir also encourages students for further research in the field of AI.

More than 50 Students from both our College and Surrounding Science Colleges of Gulbarga have participated in the Workshop . Dr. S T. Sulepetkar, Head Department of Electronics, Welcomes the Guests, Dr. T V. Biradar, Head Department of Mathematics and Smt. Jagadevi C. Gudda, Coordinator from Department of Electronics also Present. The Complete workshop is organized by the Faculty of Department of Electronics and Mathematics. All the Heads of the Departments and Teaching Faculty of our College witnessed the function and one of the Student given Vote of Thanks .

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SHARNBASVESHWAR COLLEGE OF SCIENCE, KALABURAGI

Two Day Student Centric workshop on

On

"Robotics: Hardware & App Prototyping"

Organized by

Dept. of Mathematics & Dept. of Electronic

Registration Sheet

Sl.no	NAME OF THE STUDENT	CLASS	COMBINATION
1.	BHAGYASHREE K K	BSc 4th sem	PME
2.	KAVYA K KULKARNI	BSc 6th sem	PCM
3.	SOROJA D BHALKI	BSc 6th sem	PCM
4.	IRAM TASKEEM	BSc 6th sem	PME
5.	KAVERI S GHANTE	BSc 6th sem	PCM
6.	KANYAKUMARI M	BSc 6th sem	PMCs
7.	ASHWINI S EKANBE	BSc 6th sem	PMCS
8.	KEERTI	BSc 6th sem	PME
9.	POOJA H RATHOD	BSc 6th sem	PMCs
10.	NEHA S DASTAGIR	BSc 6th sem	PMCs
11.	SANA PARVEEN	BSc 6th sem	PMCs
12.	POOJA S PATIL	BSC 6th sem	PMCs
13.	PRIYANKA H K	BSC 6th sem	PME
14.	MADHU S	BSC 6th sem	PMCs
15.	AMBIKA R PAWAR	BSC 6th sem	PME
16.	ANNAPURNA L R	BSC 6th sem	PME
17.	PATIL PRIYANKA	BSC 6th sem	PME
18.	SUSHMA K BADIGER	BSC 6th sem	PME
19.	NEELAMBIKA H Y	BSC 6th sem	PME
20.	CHAITRA KATTIMANI	BSC 6th sem	PME
21.	PRIYANKA V J	BSC 6th sem	PME
22.	SHUBHANGI S N	BSC 6th sem	PME
23.	ASHWINI C K	BSC 6th sem	PME
24.	PALLAVI V SWAMI	BSC 6th sem	PME
25.	RACHAYYA S HIREMATH	BSC 4th sem	PME
26.	PRUTHVIRAJ S SHERI	BSC 4th sem	PME
27.	VISHWANATH S PATIL	BSC 6th sem	PCM
28.	MAHANTESH L	BSC 6th sem	PME
29.	SHARATKUMAR	BSc 6th sem	PME
30.	SHRAT G N	BSc 6th sem	PME
31.	VIVEKANAND	BSc 6th sem	PME
32.	MALLIKARJUN CHINAMALLI	BSc 6th sem	PME
33.	CHANNAMMA KAMBAR	BSc 4th sem	PME
34.	AJAY KUMAR BHANKALAGI	BSc 6th sem	PME
35.	BHIMASHANKAR M BIRADAR	BSc 6th sem	PME
36.	BHEEMASHANKAR K KAMBAR	BSc 6th sem	PCM
37.	D MANJUNATH S RATHOD	BSc 6th sem	PCM
38.	SACHIN R KADAM	BSc 6th sem	PCM
39.	VEERESH P HIREMATH	BSc 6th sem	PCM
40.	SHILPA JAVAJI	BSc 6th sem	PCM
41.	CHANDRASHEKAR UPPAR	BSc 6th sem	PME
42.	SANGAMESH B	BSc 6th sem	PME
43.	BASAVARAJ SANGAPPA	BSc 6th sem	PME
44.	REVATI M J	BSc 6th sem	PME
45.	SYED SHAHBAZ (N V DEGREE CLG)	BSc 6th sem	PME
46.	MAHALING YALGANDE	Bsc 6th sem	PME
47.	SHIVAKUMAR KANDI	Bsc 4th sem	PME
48.	BHAGYAPRASAD HIREMATH	Bsc 4th sem	PME
49.	BASAVARAJ B N	Bsc 4th sem	PME
50.	VAISHANVI C J	Bsc 4th sem	PME
51.	ANJALI S K	Bsc 4th sem	PME

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SHARNBASVESHWAR COLLEGE OF SCIENCE, KALABURAGI

o Day Student Centric workshop :"Robotics: Hardware & App Prototyping"

Organized by: Dept. of Electronics & Dept. of Mathematics

Attendance Sheet

Sl. NO	Name of the Student	Class	Combination	Date: 18-01-2020 Session:01 10 AM to 1 PM	Session:02 2 PM to 5 PM
1	Bhagyashree. K. H	B.Sc V sem	PME		
2	Kavya. K. Kulkarni	B.Sc V sem	PCM		
3	SAROJA. D. BHALKI	B.Sc V sem	PCM		
4	IRAM. TASKEEN	B.Sc V sem	PME		
5	Kaveri S. Ghante	B.Sc VI sem	PCM		
6	Saanyakumari. M	B.Sc VI	PMCs		
7	Ashwini. S. Ekambe	B.Sc VI	PMCs		
8	Keerthi	B.Sc VI	PMCs		
9	Pooja. H. Rathod	VI sem	PMCs		
10	Neha D/o shaik Dastagir	VI sem	PMCs		
11	Sana Parveen	VI sem	PMCs		
12	Pooja. S. Patil.	VI sem	PMCs		
13	priyanka HV	VI sem	PME		
14	Madhu. S	VI sem	PMCS		
15	Ambika R. Palodi	"	PMIG		
16	Annapurna. L. K	"	PME		
17	patil priyanka	"	"		
18	Shushma K Badiger	VI sem	PME		
19	Neelambika. H.Y	"	"		
20	Chaitra. Kattimani	"	"		
21	Priyanka. V.J	"	"		
22	Shubhangi S Nandagi	V sem	PME		
23	Ashwini. C.K	VI sem	PME		
24	Pallavi V. Swami	6th Sem	PME		
25	RACHAYYA. S. HIREMATH	IV Sem	PME		
26	PRITHVIRAJ. S. SHERI	II Sem	DYE		
27	Vishwanath. S-patil	VI sem	PCM		
28	SYED SHAHBAZ (N.V. DC)	VI Sem	PMCs		
29	Mahantesh. L	VI sem	PME		
30	sharath kumar	VI sem	PME		
31	Shruti G.N.	VI	PME		
32	Vivekanand	VI Sem	PME		
33	MALLIKARJUN CHINAMALLI	VI Sem	PME		
34	CHANNAMMA. KAMBAR	IV Sem	PME		
35	AJAYAKUMAR. BHANKALAGI	VI Sem	PME		
36	Bhimashankar. M. Birad	VI sem	PME		
37	Bheemashankar. K. Kambar	VI sem	PCM		
38	D. Manjunath. S. Pathod	VI sem	PCM		
39	Sachin. R. Kadam	VI Sem	PCM		
40	Veeresh. P Hiremath	VI Sem	PCM		
41	Shilpa. A. Javaji	VI sem	PCM		
42	Bhagyashree	VI Sem	PME		
43	Soumya. R.L	VI sem	PME		
44	[illegible]	VI Sem	PME		
45	Sweeta G N	VI Sem	PME		

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SHARNBASVESHWAR COLLEGE OF SCIENCE, KALABURAGI

'o Day Student Centric workshop :"Robotics: Hardware & App Prototyping"

ganized by: Dept. of Electronics & Dept. of Mathematics

Attendance Sheet

SL. NO	Name of the Student	Class	Combination	Date: 19-01-2020 Session:01 10.00 AM to 1.15 PM	Session:02 02.00 PM to 5.00 PM
1	Bhagyashree. K.K	BSc VI sem	PME	Bhkk	Bhkk
2	Kavya. K. Kulkarni	B.Sc VI sem	PCM	Kkulkarni	Kkulkarni
3	SAROJA. D. BHALKI	BSC VI sem	PCM	Sbhalki	Sbhalki
4	IRAM. TASKEEN	BSc VI sem	PME	Iram	Iram
5	Kaveri. S. Ghante	B.Sc VI sem	PCM	Kaveri	Kaveri
6	Kanyakumari. M	BSc VI sem	PMCS	kanya	kanya
7	Ashwini. S. Ekambe	BSc VI	PMCs	Ashwini	Ashwini
8	Keerti	B.Sc VI	PMCS	Keerthi	Keerthi
9	Pooja. H. Rathod	VI sem	PMCs	PHRathod	PHRathod
10	Neha D/o shaik Dastagir	VI sem	PMCs	Neha	Neha
11	SanaParveen	BSc VI	PMCS	Sanaparveen	Sanaparveen
12	Pooja. J. Pati	BSc VI	PMCS	Pjpati	Pjpati
13	Madhu S	VI sem	PMCS	madhus	madhus
14	Priyanka HK	VI sem	PME	PHK	PHK
15	Ambika. R. Pawar	"	"	Apawar	Apawar
16	Annapurna. L. R	"	PME	Alr	Alr
17	Patil Priyanka	"	"	Priyanka	Priyanka
18	Shushma K Badiger	VI sem	PME	shushmakb	shushmakb
19	Neelambika. H. G	"	"	Nhg	Nhg
20	Chaitra. Kattimani	"	"	Kattimani	Kattimani
21	Priyanka. V. J	"	"	Pvjanka	Pvjanka
22	Shubhangi. S. Nandagi	VI sem	PME	Shubhangi	Shubhangi
23	Ashwini. C. K	VI sem	PME	ckashwini	ckashwini
24	Pallavi. V. Swami	6th Sem	PME	Pswami	Pswami
25	KACHAVVA. S. HIREMATH	VI sem	PME	Kachavva	Kachavva
26	PRUTHVIRAJ. S. SHERI	VI sem	DME		
27	Vishwanath. S. patil	VI sem	PCM	vishwa	vishwa
28	SYED SHAHBAZ (N.V.D)	VI sem	PME	Shbz	Shbz
29	Mahantesh.L	VI sem	PME	Mal	Mal
30	Sharath kumar	VI sem	PME	Sharath	Sharath
31	Bharati G.N.	VI	PME	Sgn	Sgn
32	Vivekanand.	VI	PME	V	V
33	MALLIKARJUN CHINAMALLI	VI sem	PME	MM	MM
34	CHANNAMMA. KAMBAR	IV Sem	"	Cambar	Cambar
35	AJAYAKUMAR. BHANKALAGI	VI sem	PME	ABhankalagi	ABhankalagi
36	Bhimashankar. M. Biradar	VI sem	PME	Bmbiradar	Bmbiradar
37	Naresh. p. Hiremath	VI Sem	PCM	Pnhiremath	Pnhiremath
38	D. Manjunath. S. Pathod	VI Sem	PCM	Dmspathod	Dmspathod
39	Sachin R. Kadam	VI Sem	PCM	Srkadam	Srkadam
40	Bheemashankar. K. kambar	VI sem	PCM	Bkambar	Bkambar
41	Shilpa. A. Sangi	VI sem	PCM	Asangi	Asangi
42	Soumya. R. L	VI sem	PME	Srl	Srl
43	Bhagyashree	VI Sem	PME	Bhagyashree	Bhagyashree
44	UZMA N B	"	PME	Unb	Unb
45	[illegible]	VI Sem	PME	Sm	Sm

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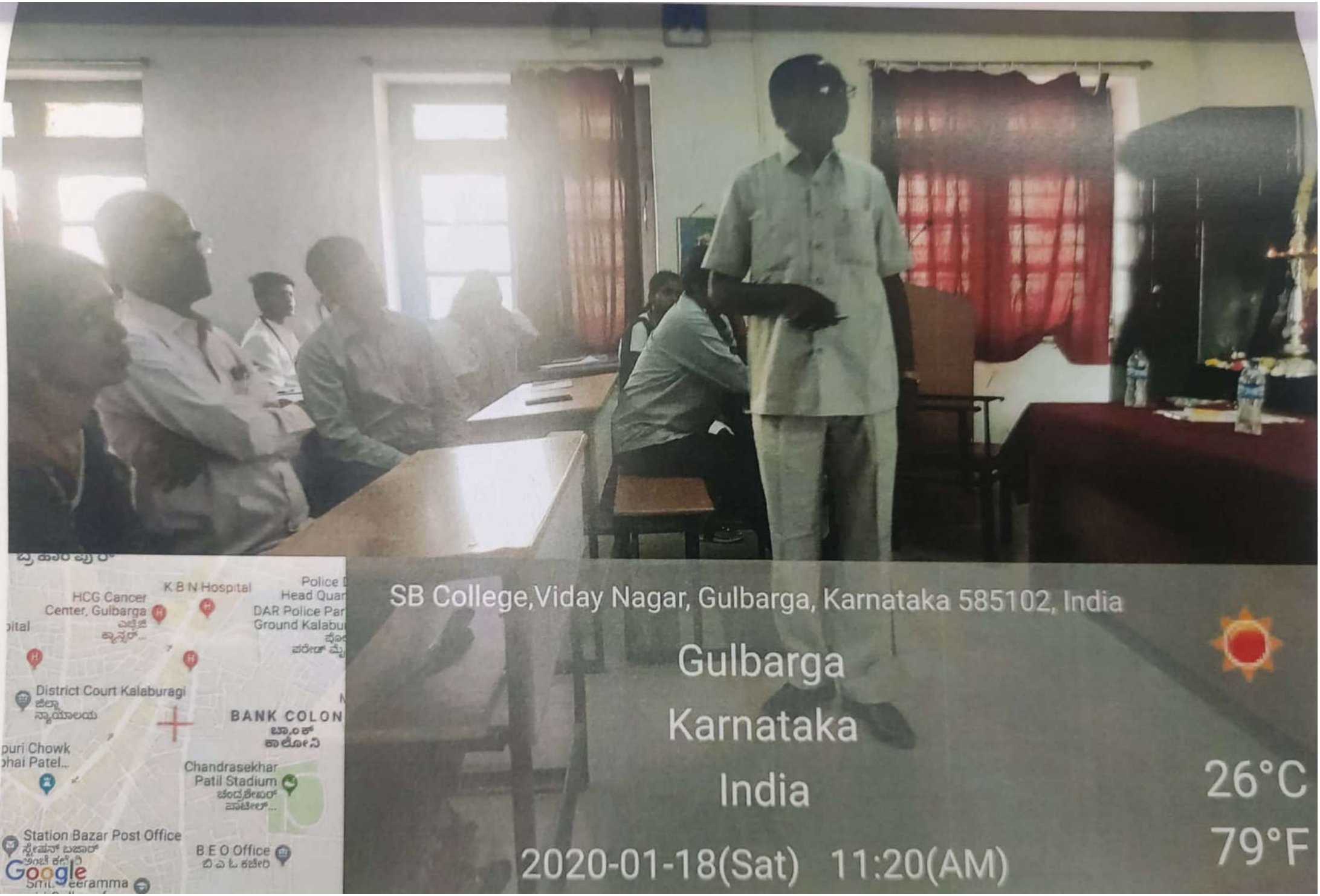

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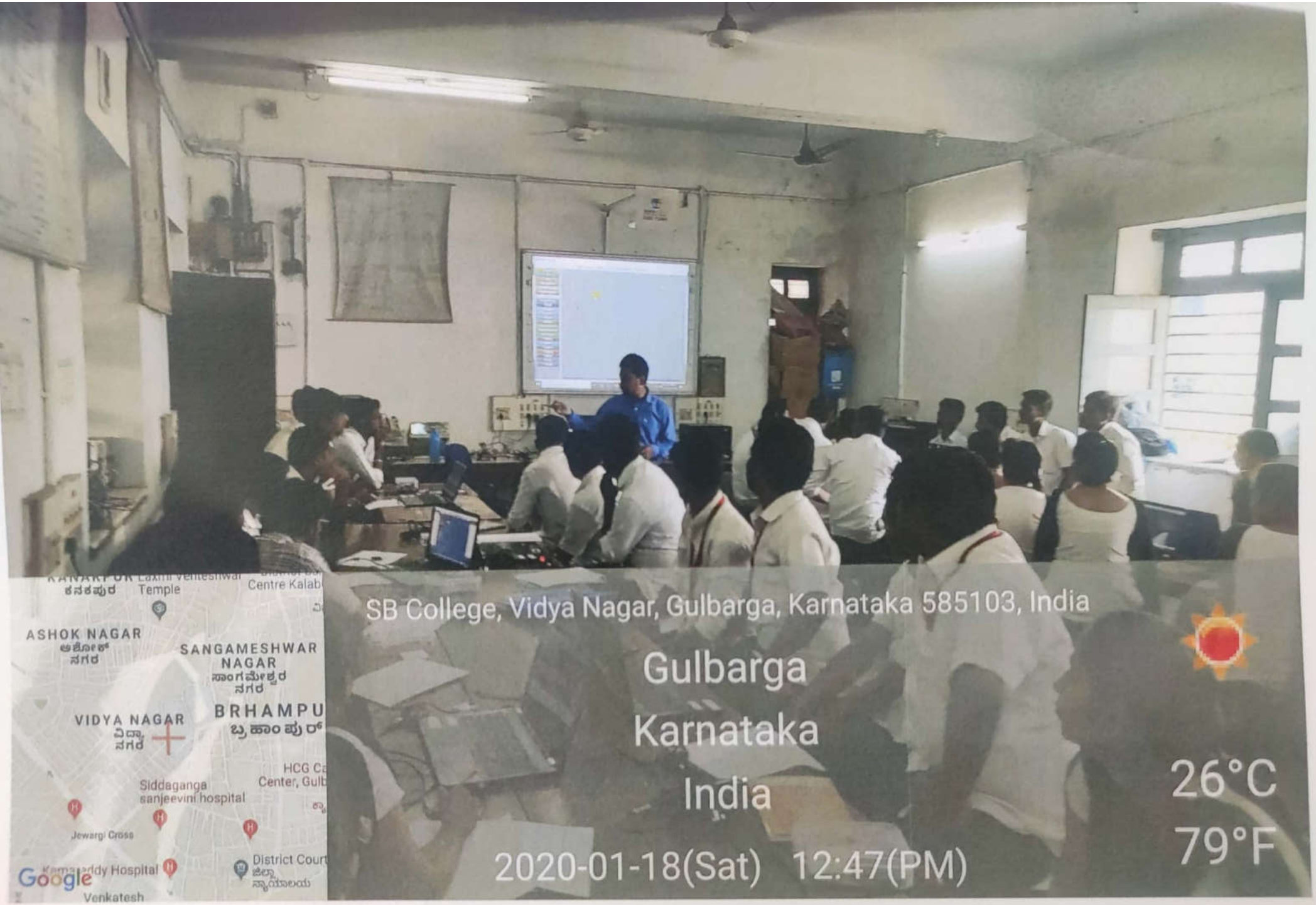

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Sharnbasveshwar
College of Science,
Kalaburagi 585103
(Karnataka)

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(ಕರ್ನಾಟಕ)

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Phone: 08472-221941, Fax: 084 72- 241492, email: sbcscg@rediffmail.com

Ref. No. SBCS/2019-20

Date : 19-01-2020

ಪತ್ರಿಕಾ ಪ್ರಕಟಣೆಗಾಗಿ

ನಗರದ ಶರಣಬಸವೇಶ್ವರ ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ದಿನಾಂಕ 18-01-2020 ಹಾಗೂ 19-01-2020 ರಂದು 2 ದಿನದ ಕಾರ್ಯಾಗಾರವನ್ನು ವಿದ್ಯುನ್ಮಾನ ವಿಭಾಗ, ಗಣಿತ ವಿಭಾಗ.ಹಾಗೂ **ಕ್ಲೆವರ್ ಬಿಟ್ಸ ಸೊಲ್ಯುಷನ್ಸ ಬೆಂಗಳೂರು** ಇವರ ಸಂಯುಕ್ತ ಆಶ್ರಯದಲ್ಲಿ ರೋಬೋಟಿಕ್ಸ : ಹಾರ್ಡವೇರ್ ಯ್ಯಾಪ್ ಪ್ರೋಬೋಟೈಪಿಂಗ್ ಕುರಿತು ಕಾರ್ಯಾಗಾರ ಹಮ್ಮಿಕೊಳ್ಳಲಾಗಿತ್ತು. ಈ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಮುಖ್ಯ ಅತಿಥಿಗಳಾಗಿ ಆಗಮಿಸಿದ ಡಾ.ಎಸ್.ಎನ್.ಮುಲಗಿ, ಮುಖ್ಯಸ್ಥರು, ವಿದ್ಯುನ್ಮಾನ ವಿಭಾಗ, ಗುಲಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯ ಕಲಬುರಗಿ ಇವರು ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ಉದ್ದೇಶಿಸಿ ಮಾತನಾಡುತ್ತಾ ರೋಬೋಟಿಕ್ಸ ಕೇವಲ ಒಂದು ಉಪಕರಣವಾಗಿರದೇ ಮಾನವನಂತೆ ವಿಚಾರ ಮಾಡುವ, ಕೆಲಸ ಮಾಡುವ, ನಿರ್ಧಾರ ತೆಗೆದುಕೊಳ್ಳುವ ಒಂದು ಯಂತ್ರ ಮಾನವ ಇದಾಗಿದೆ ಎಂದು ಹೇಳಿದರು. ಅಲ್ಲದೇ ರೋಬೋಟಿಕ್ಸ ಕೃತಕ ಮೆದುಳಿನಂತೆ ಕೆಲಸ ಮಾಡುವ ಸಾಧನವಾಗಿದ್ದು ಶೈಕ್ಷಣಿಕ, ವೈದ್ಯಕೀಯ, ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ಅತೀ ಮಹತ್ವ ಪಡೆದುಕೊಂಡಿದೆ ಎಂದು ಅಭಿಪ್ರಾಯ ವ್ಯಕ್ತಪಡಿಸಿದರು. ಈ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ತರಬೇತಿಗೊಳಿಸಲು ಶ್ರೀ.ಸುರೇಶ್ ಇವರು ಸಂಪನ್ಮೂಲ ವ್ಯಕ್ತಿಯಾಗಿ ಆಗಮಿಸಿದ್ದರು. ಪ್ರಾಂಶುಪಾಲರಾದ ಡಾ. ಎಸ್.ಜಿ. ಡೊಳ್ಳೇಗೌಡರ್ ಈ ಕಾರ್ಯಕ್ರಮದ ಅಧ್ಯಕ್ಷತೆ ವಹಿಸಿದ್ದರು. ಈ ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಡಾ. ಎಸ್.ಟಿ.ಸುಲೇಪೇಟಕರ್, ಡಾ. ಟಿ.ವಿ.ಬಿರಾದರ್, ಡಾ.ಎಸ್.ಎ.ಮಾಲಿಪಾಟೀಲ್, ಡಾ.ಬಿ.ರಾಮಕೃಷ್ಣರೆಡ್ಡಿ, ಶ್ರೀಮತಿ. ಜಗದೇವಿ ಗುಡ್ಡಾ ಹಾಗೂ ಇನ್ನಿತರೆ ಶಿಕ್ಷಕ ಸಿಬ್ಬಂಗಿಯವರು ಅಲ್ಲದೇ ಶಿಕ್ಷಕೇತರ ಸಿಬ್ಬಂದಿಯವರು, ಹಾಗೂ ವಿದ್ಯಾರ್ಥಿಗಳು ಉಪಸ್ಥಿತರಿದ್ದರು.

ಕುಮಾರಿ. ಅಂಜಲಿ ಕಾರ್ಯಕ್ರಮ ನಿರೂಪಣೆ ಮಾಡಿದರು, ಕುಮಾರಿ ವೈಷ್ಣವಿ ಪ್ರಾರ್ಥಿಸಿದರು, ಹಾಗೂ ಕುಮಾರಿ ಅಶ್ವಿನಿ ವಂದನಾರ್ಪಣೆ ಮಾಡಿದರು.

ಪ್ರಾಚಾರ್ಯರು

PRINCIPAL
Sharnbasaveshwar College of science,
KALABURAGI - 585 103.

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Bhushma K.B

Sharnbasveshwar College of Science, Kalaburagi

Two Day Workshop on " Robotics: Hardware & Software Prototyping" on 18th and 19th Jan., 2020 at Dept. of Electronics from 10 AM to 5 PM

WORKSHOP FEEDBACK FORM

Please take a few moments to provide us with some important feedback about the workshop. This information will be used to improve future workshops.

1. Please indicate the extent to which you agree or disagree with the following statements (mark NA if the statement is not applicable):	Strongly Disagree	Neither Agree nor Disagree	Strongly Agree	NA
a. The trainer was well organized.	☐	☐	☑	☐
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c. The trainer seemed knowledgeable about the topic.	☐	☐	☑	☐
d. The trainer presentation style was effective in helping me	☐	☐	☑	☐
e. The teaching/training methods used were appropriate for the	☐	☐	☑	☐
f. The materials provided will be useful to me.	☐	☐	☑	☐
g. I enjoyed the workshop.	☐	☐	☑	☐
h. I understood the concepts as presented in the workshop.	☐	☐	☑	☐
i. The workshop improved my understanding of the topic.	☐	☐	☑	☐
j. The workshop improved by ability to utilize skills related to Teaching and Learning.	☐	☐	☑	☐
k. The knowledge and skills I learned will be useful to me in my career.	☐	☐	☑	☐
l. I would recommend this workshop to others.	☐	☐	☑	☐
m. I would attend other workshops offered by these Resource person.	☐	☐	☑	☐

Thank you. Please return this form to the program coordinator

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Syed Shahabaz
N.V Degree college
Klb

Sharnbasveshwar College of Science, Kalaburagi

Two Day Workshop on " Roboties: Hardware & Software Prototyping" on 18th and 19th Jan., 2020 at Dept. of Electronics from 10 AM to 5 PM

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m. I would attend other workshops offered by these Resource person.	☐	☐	☑	☐

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Pallavi

Sharnbasveshwar College of Science, Kalaburagi

Two Day Workshop on " Robotics: Hardware & Software Prototyping" on
18th and 19th Jan., 2020 at Dept. of Electronics from 10 AM to 5 PM

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Ambika pawar.

Sharnbasveshwar College of Science, Kalaburagi

Two Day Workshop on " Robotics: Hardware & Software Prototyping" on
18th and 19th Jan., 2020 at Dept. of Electronics from 10 AM to 5 PM

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Annapurana. L.R

Sharnbasveshwar College of Science, Kalaburagi

Two Day Workshop on " Robotics: Hardware & Software Prototyping" on
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Priyanka V. S
S.B college of Science
Kalb

Sharnbasveshwar College of Science, Kalaburagi

Two Day Workshop on " Robotics: Hardware & Software Prototyping" on
18th and 19th Jan., 2020 at Dept. of Electronics from 10 AM to 5 PM

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Thank you. Please return this form to the program coordinator

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Centenary Celebrated Sharanabasaveshwar Vidya Vardhak Sangha's

Sharanabasaveshwar

College of Science, Kalaburagi

(Diamond Jublilee Celebrated 1956-2016, ISO Certified 9001-2015)

Two Day Workshop on " Robotics: Hardware App Prototyping "

Certificate

This is to certify that Mr/Miss. Vishwanath S. Patil
of B.Sc VI th Sem Sharanabasaveshwar College of Science Kalburgi has participated in ROBOTICS: HARDWARE APP PROTOTYPING on 18th and 19th Jan., 2020 Organized by Department of Electronics & Department of Mathematics, Sharanabasaveshwar College of Science, Kalaburagi.

S. T. Sulepetkar
HOD of Electronics

Dr. T. V. Biradar
HOD of Mathematics

Smt. Jagadevi C. Gudda
Programme Coordinator

Dr. S. G. Dollegoudar
Principal

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Centenary Celebrated Sharanabasaveshwar Vidya Vardhak Sangha's

Sharanabasaveshwar

College of Science, Kalaburagi

(Diamond Jublilee Celebrated 1956-2016, ISO Certified 9001-2015)

Two Day Workshop on " Robotics: Hardware App Prototyping "

Certificate

This is to certify that Mr/Miss. Mahaling Yalgonde of B.Sc. IV th Sem. Sharanabasaveshwar College of Science Kalburgi has participated in ROBOTICS: HARDWARE APP PROTOTYPING on 18th and 19th Jan., 2020 Organized by Department of Electronics & Department of Mathematics, Sharanabasaveshwar College of Science, Kalaburagi.

S. T. Sulepetkar
HOD of Electronics

Dr. T. V. Biradar
HOD of Mathematics

Smt. Jagadevi C. Gudda
Programme Coordinator

Dr. S. G. Dollegoudar
Principal

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ಚ.ಸ.ಮ: 230548
19/1/2020

ಶರಣಬಸವೇಶ್ವರ
ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ, ಕಲಬುರಗಿ–585 103

ಹಣ ಸಂದಾಯ ಪಾವತಿ

ಪಾವತಿ ಸಂಖ್ಯೆ _____

ರೂ: 20,000/- ದಿನಾಂಕ 19.01.2020

ಖರ್ಚು(ಖಾತೆಗೆ) Robotic student centric workshop

ಹೆಸರು : Suresh patil clevebit solutions Bloore

ಹಣ(ಅಕ್ಷರದಲ್ಲಿ)ರೂಪಾಯಿಗಳು: Twenty thousand only.

ಪ್ರಾಚಾರ್ಯರಿಂದ Towards the paymt of ~~Rs~~ Honorarium for Robotic student centric work shop

ನಗದು/ಚೆಕ್.ನಂ 230568 ದಿನಾಂಕ _____ರ ಮುಖಾಂತರ
ಪಡೆಯಲಾಗಿದೆ 19/1/2020

ಪ್ರಾಚಾರ್ಯರು ಸಹಿ

PRO-PRINCIPAL ಹಣ ಪಡೆದವರ ರುಜು
SHARNBASAVESHWAR COLLEGE
OF SCIENCE GULBARGA

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