

**NEWSLETTER**  
**JAN-MAR 2021**



**BHAGWAN**  
**MAHAVIR**  
**UNIVERSITY**

**APRIL 2021 NEWSLETTER**



Quarterly  
**BMU**

**Newsletter**

April 2021 | 002 | Bhagwan Mahavir University

## *Announcement*

India is now unwinding from COVID-19 and Bhagwan Mahavir University started the class room teaching and practical performance with limited number of students. All the class rooms and laboratories of BMU is sanitized every day as a safety measures of students and employees of BMU.

## *Special In This Issue*

### **COLLABORATION WITH RFRF**

Bhagwan Mahavir University signed MOU with Research For Resurgence Foundation (RFRF) on 9th January 2021 to contribute in making Bharat a self reliant nation

### **COLLABORATION WITH ASPEUS**

Bhagwan Mahavir University signed MoU with Accupressure Shodh Prashikshan Evam Upchar Sansthan (ASPEUS) on 19th January 2021.



# Bhagwan Mahavir University Newsletter



University for academic year 2020-21. University started SSIP Cell in association with i-Hub (Gujarat Students Startup and Innovation Hub).

## Admission and Academic Excellence in BMU

With the fight against COVID-19, Bhagwan Mahavir University continued the flow of education and knowledge through online teaching and webinars. We have the achievement in delivery of perpetual learning through online lectures. Online admissions are going on in full swing and online examinations have also been conducted during these months. More than four thousands students has been enrolled for admission in Bhagwan Mahavir

## Gate Preparation Classes

by BMU

**BHAGWAN MAHAVIR UNIVERSITY**  
In Collaboration with  
**Beacon IES**  
PRESENTS  
**GATE Preparation Classes**

**Classes scheduled for:**

- Computer Science
- Electrical Engineering
- Mechanical Engineering
- Civil Engineering

📅 04.01.2021 ⌚ 7:00 – 8:30 PM

🗣️ Google meet (Links for the respective branches are given in the description)

📍 bhagwanmahaviruniversity | Bhagwan Mahavir University | bmusurat  
www.bmusurat.ac.in | 7575807374/7575807375 | Bhagwan Mahavir University, VIP Road, Surat 385007

Bhagwan Mahavir University in collaboration with Beacon IAS took GATE Preparation Classes for the students of Computer Science, Electrical Engineering, Mechanical Engineering and Civil Engineering from 4th January 2021.

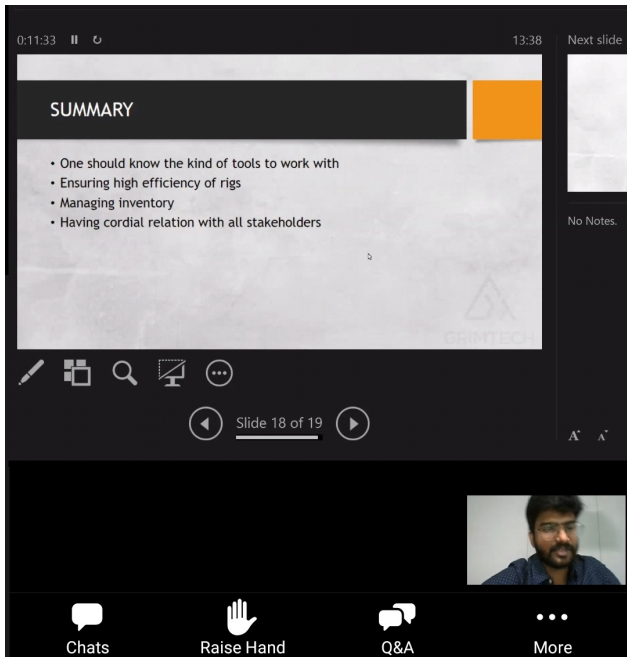
## Webinar on “Construction of pile foundation”

by CIVIL DEPT, BMP

Civil Department was organized expert lecture on “Construction of pile foundation”. It was conducted by Shri Abhishek Agarwal, Executive Director and Shri Gaurav Goel, DGM, Grimtech Projects India Pvt. Ltd. on 8th January 2021 with 70 students. Key highlights of webinar were:

- ☞ What is pile foundation?
- ☞ How to approach piling project?
- ☞ What sort and quantity of tools and equipment should be mobilized?

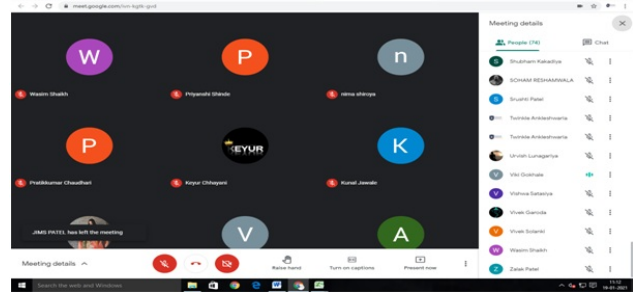
- ☞ Process of piling
- ☞ On site management
- ☞ Resource management
- ☞ Tracking centrally



Resurgence Foundation (RFRF) on 9th January 2021 to contribute in making Bharat a self reliant nation.

### Webinar on “C-Language”

by COMPUTER DEPT, BMCET



A webinar on “C Language” was organized by Computer department on 19th January, 2021 by guest speaker Mr. Vikas Gokhale. The webinar was organised on Google meet platform between 11 to 12.30 pm. He discussed about Algorithm, Flowchart, Pseudo code, Flowchart Symbols, Data types with practical sessions.

### Webinar on “Journey from Narendranath to Vivekanand”

by BMU

### Collaboration with Research For Resurgence Foundation (RFRF)

by BMU



When the whole country is very optimistic about NEP-2020, the responsibility of higher education institutions becomes more significant. Bhagwan Mahavir University proudly announces MoU signed with Research For

As we mark the 158th anniversary of Shri Swami Vivekanand, Akhil Bhartiya Vidyarthi Parishad and Bhagwan Mahavir University present Webinar on “Journey from Naredranath to Vivekananda” by Sh. Gopal Arya, National Coordinator, Environmental Initiative, RSS on 12th January 2021.



### Webinar on “Vivekanand: Success Mantras in Life”

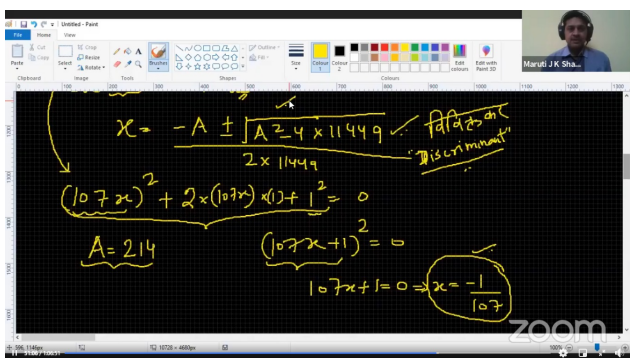
by BMU



As a celebration of Youth Day Celebration, Bhagwan Mahavir University organized webinar on “Vivekanand: Success Mantras in Life” with Bharat Vikas Parishad on 12th January 2021. The event was started with lighting the lamp. Welcome address was given by Shri Prem Sharda, President Bharat Vikas Parishad, Surat and Dr. Sanjay Jain, President Bhagwan Mahavir University. Chief guest of the event was Shri Dinesh Navadia, President SGCCI and Guest of honour was Shri Girish Luthra, Business leader. The keynote speaker of the event was Shri Kaivalya Smart, spiritual leader. At last, Dr. Nirmal Sharma, Provost Bhagwan Mahavir University gave the concluding remarks of the event.

### Webinar on “Vedic Mathematics”

by BMU



In the Vedic system, difficult problems or huge sums can often be solved immediately by the Vedic method. Vedic Mathematics is a collection of techniques or sutras to solve mathematical arithmetics in easy and faster way. It consists of 16 sutras (Formulae) and 13 sub-sutras which can be used for problems involved in arithmetic, algebra, geometry, calculus, conics. Bhagwan Mahavir Polytechnic College in association with JKMS institute, presented webinar on Vedic Mathematics. Ms. Komal Asarani, Shri. V. Unakalkar, Shri. Maruti J. K. Sharma and Shri. Vishwanath from JKMS Institute were the speakers of webinar. Webinar was very well coordinated by Dr. Janki Vashi, Head of Humanity and Social Science, Bhagwan Mahavir Polytechnic.

### Collaboration with Accupressure Shodh Prashikshan Evam Upchar Sansthan (ASPEUS)

by BMU

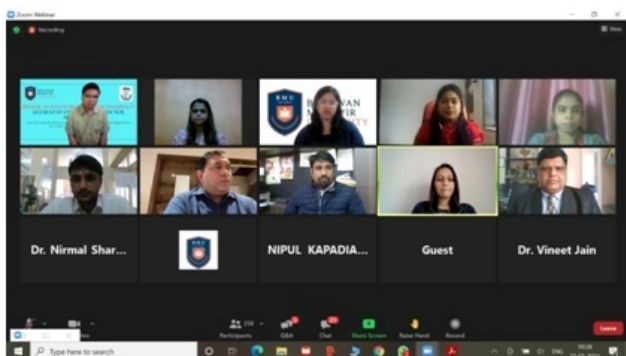


Bhagwan Mahavir University signed MoU with Accupressure Shodh Prashikshan Evam Upchar Sansthan (ASPEUS) on 19th January 2021. BMU is in the process of training staff and students for building an empowered community where at least one member of each family is trained in basic acupressure therapy so that the person is capable of looking after the health needs of people around.

### PHARMACIST REFRESHER COURSE

by BMCP





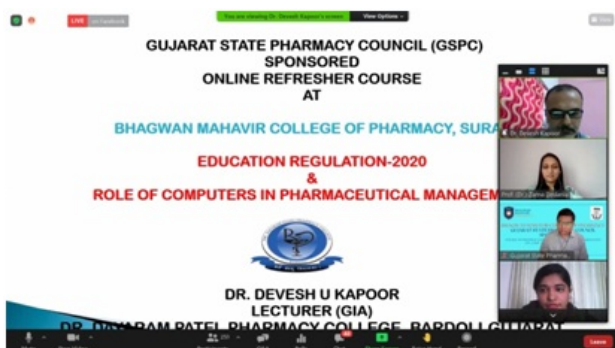
Bhagwan Mahavir College of Pharmacy, Surat had organized a refresher course for pharmacists on 23rd and 24th January, 2021. The course was sponsored by Gujarat State Pharmacy Council, Ahmedabad. The event was inaugurated at 10:30 am in the presence of the chief guests and dignitaries of BMU. The inauguration function started with introduction and welcome of guests by Dr. Vineet C. Jain, Principal of Bhagwan Mahavir College of Pharmacy, Surat. In the beginning of event, Dr. Nirmal Sharma, provost, BMU gave a brief introduction of University. Further our Chief guest Mr. J.H. Chaudhari, Registrar & Executive member of GSPC Committee, delivered speech on the pharmacist importance. Finally, Mr. Naishadh Solanki concluded the inauguration with vote of thanks. Dr. Sourabh kosey, Associate Professor ISF college of Pharmacy, Moga, Pujab and Pharm. Nipul Kapadia, deputy general manager & head pharmacy services, Apollo Hospital was invited as the chief guest. Dr. Sourabh kosey delivered a lecture on Safe Disposal of unused and Expired Medicines. Second lecture was delivered by Pharm. Nipul Kapadia on Hospital and Retail Pharmacy. After lunch the third lecture of day was delivered by Dr. J. K. Patel, Prof. and Principal of Nootan Pharmacy College on Patient Counselling. The fourth lecture of day was delivered by Mrs. Sweta Desai, Assistant Professor, Bhagwan Mahavir College of Pharmacy, Surat on Self Medication and it's Demerits. She discussed about different medication errors with examples.

in Pharmaceutical Management. He discussed about different medication software uses with examples. The second lecture of the day was delivered by Dr. Anand Deshmukh, Associate Professor of Shri Dhanvantary College of Pharmacy on assessment of bioequivalence for topic products. The third lecture of the day was delivered by Dr. Dixit Modi, Associate Professor of N. L. Patel College of Pharmacy on Pharmacy Practice Regulation - 2015. Objective test was conducted at 2:30 pm. On valedictory function, Welcome address was given by Dr. Vineet C. Jain, Principal Bhagwan Mahavir College of Pharmacy. Shri Montu Patel, Sr President or GSPC presided the function as Chief Guest. Finally, Ms. Priyanka Chaudhari concluded the course with vote of thanks. GSPC Refresher course E-certificate were distributed to all the participants through mail.



## Celebration of Republic Day

by BMU



On 2nd day the morning session started with a lecture by Dr. Devesh Kapoor, Lecturer of Dr. Dayaram Patel College of Pharmacy, Bardoli on Role of Computer

Bhagwan Mahavir University witnessed the celebration of the 72nd Republic Day on the 26th January, 2021. Limited number of Students, Staff and Faculty members

filled with a feeling of patriotism and dedication gathered in open ground of BMU. The celebration started with the unfurling of the National Flag by the chief guest Shri A.K. Khandelwal. In his speech, the director highlighted the importance of the constitution and its unique features such as Sovereign, Socialist, Secular, Democratic and Republic enshrined in the preamble of the constitution. He also tribute to the corona warrior for their selfless dedication toward nation and society. The speech was followed by the cultural program performed by University students students. The program ended with the message to create a great nation through collective efforts from all individual. Refreshment and Sweets were distributed among all the guests and students.



## Orientation of Students

by AERONAUTICAL DEPT., BAIT



The Orientation program for newly admitted students of bachelor of engineering was organized by Bhagwan Mahavir College of Engineering & Technology on 2nd February 2021 with all safety precautions of covid-19 pandemic. In this program Dr. Vineet Goel (Director of BMCET), all HODs, faculties and senior students were present. Dr. Vineet Goel has ensured students to provide best quality education during their graduation which includes academics, practical knowledge, industrial visit, extra curriculum activities. At the end of programme all students were given pen and kit of all necessary documents as a welcome of our fresher.

## Acupressure awareness

by BMCBAS

Acupressure awareness was conducted for UG and PG students of Bhagwan Mahavir College of Basic & Applied Science on 4th and 8th February, 2021. Approximately 100 students had participated. Acupressure is a form of medicine that applies pressure to key healing points on the body, stimulating a person's self healing abilities and encouraging energy flow. These sessions helped students to learn specific acupressure techniques through hands-on practice. Acupressure therapists gave training to use finger pressure, magnet and colour and in the above awareness program. Acupressure specialists conducted the session practically as well using various methods of acupressure.

## Inaugural Ceremony of "Society of Aviation Volunteer (SAV Surat)"

by AERONAUTICAL DEPT., BAIT



SAV is a club, originated by students of Aeronautical engineering department to gain and spread knowledge about Aeronautical (Aviation) branch. SAV will organize events/activities like seminars, workshops, quiz competition, project and model preparation, group discussion, interaction with industry personnel, industrial tour etc. in future. On 26th February the inaugural ceremony of the Society of Aviation Volunteer (SAV Surat) commenced with the welcome of the chief



guest Dr. Nirmal Sharma, Provost, Bhagwan Mahavir University. He was overwhelmed while launching SAV group. He said that it felt like he was launching rocket. He promised to support SAV group with his experience and skills. He also motivated all students present in ceremony for their future. Further, presentation on History of flight was presented by co-ordinators Adarsh Tiwari, Awanish Gautam, Sumit Pandey and Parmit Singh Sandhu. Quiz competition was conducted by co-ordinators Poonam Yadav, Vishal Dubey, Jay kataria, Purav Galani, Sajan Sinde, Kishan Chotala and Mayur Ladumore.



Gujarat Energy Development Agency (GEDA) has organized and sponsored one day online workshop on “Energy Conservation Awareness” workshop on 9th March 2021 at Electrical Engineering Department of Mahavir Swami College of Engineering & Technology, Surat. Workshop was conducted by Mr. R.M.Panchal from Global Energy Consultancy services and Mr. S. K. Nayak. Topics covered in workshop like Energy Scenario in India, Energy conservation in different areas like Pumps, Motors, Lighting etc., Energy audit and also displayed some equipment used in energy audit. The workshop was online on Microsoft Teams platform. The workshop was interactive, interesting, informative and full of knowledge. The students learnt a lot and response was excellent. Total 82 Students and some faculties of Electrical, Mechanical, Automobile and Civil Engineering Department took the advantage of said program and got participant certificates.

## InHouse Event 2021

by CULTURAL COMMITTEE, BMU



The Inhouse event -“AD-MAD” was organised by Bhagwan Arihat Institute of Technology on 2nd March 2021 as a part of Cultural feast. The event was led and executed successfully. Winner of the event was from Bhagwan Mahavir College of computer application.

## Workshop on “Energy Conservation Awareness”

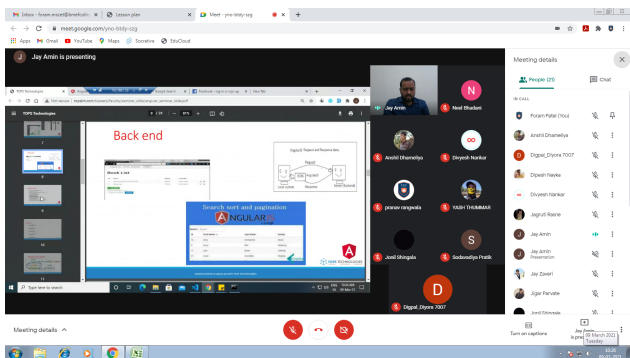
by ELECTRICAL ENGG., MSCET



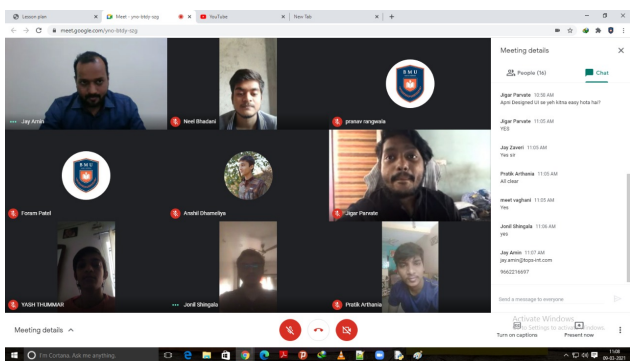
## Webinar on AngularJS

by COMPUTER ENGG., MSCET





Computer Department of Mahavir Swami College of Engineering & Technology organized one day webinar on “Angular JS” on 9th March, 2021. Webinar was conducted by Mr. Jay Amin, Sr. Software Trainer from Tops Technology. The content of webinar was - Introduction to Angular; Angular Versions & Angular Architecture, Development Environment, Installing Project Dependencies & Modules, Components and Directives, Typescript vs. JavaScript, Data Binding with Html controls, Template Integration and Routing.



**SSIP COLLEGE LEVEL PROJECT SCREENING**  
by SSIP COMMITTEE, BMP

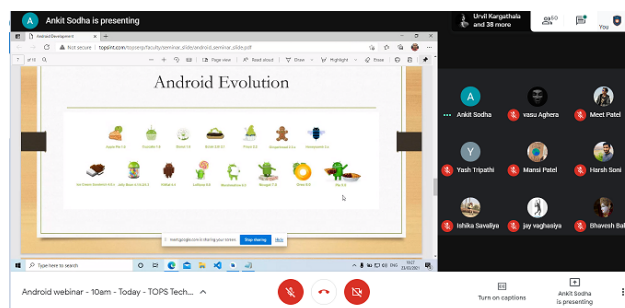


Bhagwan Mahavir Polytechnic organized pre-level SSIP college level project screening on 10th March 2021. It

was conducted by Dr. Jay Joshi, Principal of Bhagwan Mahavir Polytechnic. Mr.Dharmil, Mr.Narendra, Mrs. Ankita Patel, Mr. Kavindra with number of group is 5 students presented their project. Dr. Jay Joshi with the expert committee members of other colleges reviewed the projects and gave expert guidance.



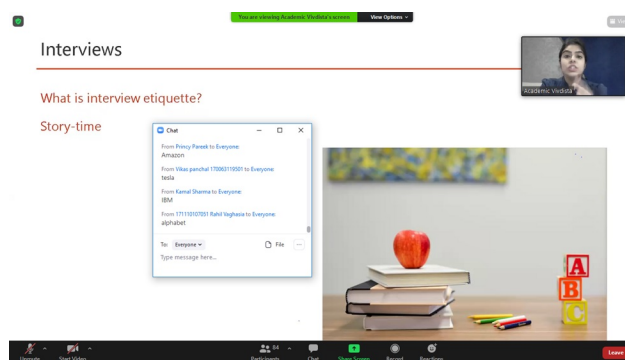
**Webinar on “Android Technology”**  
by COMPUTER & IT DEPT., BMP



IT & Computer Department was organized webinar on “Android Technology”. It was conducted by Mr. Ankit Sodha from TOPS Technology on 23rd March, 2021 with 53 students of 2nd year. Key highlights of webinar were:

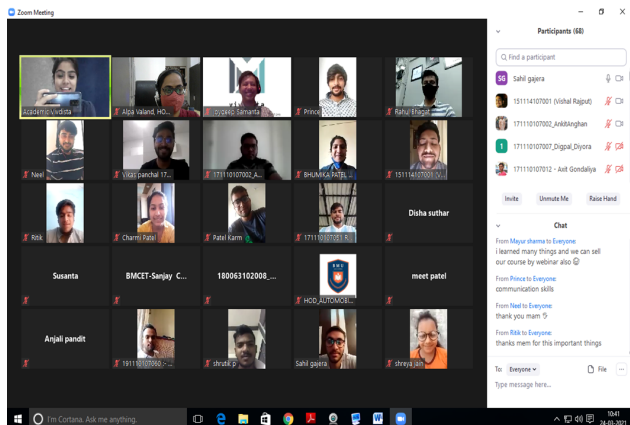
- ☛ What is android?
- ☛ Android evolution.
- ☛ Android ecosystem.
- ☛ How to run android program?

**Webinar on “Android Technology”**  
by COMPUTER & IT DEPT., BMP



Life skills webinar was organized by Joydeep Samanta (Founder of Vivdista) for the final year engineering students on 24th March 2021, who have limited time before taking a leap into their next stage of the career. Session was covered by Demo Session, Ice breaking Session, Mock Interview Session and details about Life Skills Foundation Course.

of various leaves of piper betle, adhatodavastica, memordicacharantia, lawsoniainermis and evaluation of antimicrobial activity against human pathogen”, and “Estimation Of Protein From Ocimum Sanctum By Bradford Method” respectively, in Two Days International Conference proceeding in life science (organized by: International Journal of Microbial Science IJMS) held on 1st March to 2nd March 2021.



### Student Achievement

by BMU



A students of Bhagwan Mahavir College of Basic and Applied Science, Mr. Gowda Megha, Mr. Dhimmarr Madalsa, Ms Dinky Patel, Ms Jain Shivani has presented their paper on “Isolation, Screening, Quantification and optimization of Acid Phosphatase Enzyme”. Mr. Nishant Savaliya, Ms. Sneha Vasoya, Ms. Pooja Mishra had presented their paper on “Single step DNA extraction from Prokaryotes and Eukaryotes”. Ms. Rucha Vyas, Ms. Mansi Vaghela and Ms. Rukhsar Fatima Chaudhary had presented their papers on “Isolation, Screening & Production of Amylase by microorganisms isolated from Agriculture soil”, “Phytochemical analysis



Under Scheme of Rastriya Prakalp Yuva Nirman, Surat Jagruti Shakha organized three days Robot making workshop on 5th February 2021 - 7th February 2021. Student of Mahavir Swami College of Engineering, Ms. Muskan Agarwal conducted the workshop. She was honoured by Yuva Nirman organization.





GirlScript, Surat has organized start up talk in which Ms. Muskan Agarwal was guest. Ms. Muskan is an aspiring student of computer engineer dept, Mahavir Swami College of Engineering with a flair for robotics. She enjoyed teaching and mentioning students. Talk was organized on Google Meet platform on 13th March, 2021

**TALK ON STARTUP**

**Muskan Agarwal**  
Computer Engineer  
Founder of Mannat

**Maitri Jariwala**  
Chemical Engineer  
Founder of Begin with Flowers

ORGANIZED BY  
**GIRLSCRIPT**  
EDUCATION FIRST | Surat

## Faculty Achievement

by BMU

Research article contribution was made by Principle of Bhagwan Mahavir College of Basic & Applied Science, Dr. Sumita Dasgupta entitled "Effect Of Cooking On Total Phenol, Total Flavonoid DPPH Free Radical Scavenging Assay And Total Antioxidant Capacity Of Some Green Leafy Vegetables Commonly Consumed In India" in Indian Journal Of Applied Research.

Faculty of Bhagwan Mahavir College of Basic and Applied Science Dr. Murtaza Hajoori has presented paper on "Single step DNA extraction from Prokaryotes and Eukaryotes" in Two Days International Conference proceeding in life science (organized by: International Journal of Microbial Science IJMS) held on 1st March to 2nd March 2021.

Original Research Paper | Volume - 11 | Issue - 03 | March - 2021 | PRINT ISSN No. 2249 - 555X; DOI : 10.36106/ijar

**Botany**

**EFFECT OF COOKING ON TOTAL PHENOL, TOTAL FLAVONOID, DPPH FREE RADICAL SCAVENGING ASSAY AND TOTAL ANTIOXIDANT CAPACITY OF SOME GREEN LEAFY VEGETABLES COMMONLY CONSUMED IN INDIA.**

**Sumita Dasgupta\*** | Biotechnology Department, Bhagwan Mahavir College of Science and Technology, New City Light Road, Vesu- Bharrhana, Surat- 395017, Gujarat. \*Corresponding Author

**Nirali Patel** | Biotechnology Department, Bhagwan Mahavir College of Science and Technology, New City Light Road, Vesu- Bharrhana, Surat- 395017, Gujarat.

**ABSTRACT** | Green leafy vegetables (GLVs) are recognized worldwide as rich source of antioxidants. They are usually consumed in India after cooking. Cooking may have an effect on the antioxidant contents of the vegetables. This study was undertaken to evaluate the effect of cooking on the total phenolic content (TPC), total flavonoid content (TFC), 2,2-diphenyl-1-picryl-hydrazyl-hydrate (DPPH) free radical scavenging assay and total antioxidant capacity (TAC) of some green leafy vegetables commonly consumed in India like *Amaranthus viridis* L., *Raphanus sativus* L., *Chenopodium album* and *Spinacia oleracea* L. TAC of the raw vegetables used for the study was found to be higher than that of the cooked. However, TPC, TFC and DPPH free radical assay was found to be more in the cooked varieties with *Spinacia oleracea* L. or Spinach having the maximum value of TPC of 144.0 mgGAE/gm, TFC of 150.2 mg QE/gm and 92.42% DPPH free radical assay.

**KEYWORDS** | Green leafy vegetables, total phenolic content, total flavonoid content, DPPH free radical assay and total antioxidant capacity

**INTRODUCTION**  
Green leafy vegetables (GLVs) are considered as an essential part of the diet to meet the daily nutrient requirements. These are becoming more popular for the masses day by day due to the increased awareness of consumers about natural and organic foods. These possess a high place in the food pyramid and are an essential part of a balanced diet (Ranadhwa 2015). Green vegetables contain a wide variety of bioactive compounds known as phytochemicals. These phytochemicals impart health benefits beyond basic nutrition (Oomah and Mazza, 2000).

Most of the phytochemicals from plant extracts, fruits and green vegetables have been identified to exhibit antioxidant activities. Natural antioxidants have a diversity of biochemical activities, some of which include the inhibition of reactive oxygen species (ROS) generation, direct or indirect scavenging of free radicals, and alteration of intracellular redox potential (Finkel/Holbrook, 2000). In order to prevent or moderate oxidation-related diseases, it is necessary to sequester and eliminate free radicals from the body (Hait-Darshan et al. 2009). Antioxidants may offer some resistance to oxidative stress by scavenging free radicals, inhibiting cell membrane damage, and suppressing lipid peroxidation, thus preventing the onset of chronic disease (Fu et al. 2011). GLVs have different antioxidants such as Vitamin C, Vitamin E, Carotenes, Lycopenes, Polyphenols and other phytochemicals (Prior and Cao, 2000). Much of the total antioxidant activity of fruits and vegetables is related to their phenolic content (Obboh et al., 2007; Obboh and Rocha, 2008). Phenolic compounds can protect the human body from free radicals, whose formation is associated with the normal natural metabolism of aerobic cells. The antiradical activity of flavonoids and phenols is principally based on the structural relationship between different parts of their chemical structure (Rico-Evans, 1996). The present investigation has been undertaken to evaluate the total phenol and flavonoid content, DPPH free radical assay and total antioxidant capacity of raw and cooked forms of some green leafy vegetables like *Amaranthus viridis* L., *Raphanus sativus* L., *Chenopodium album* L. and *Spinacia oleracea* L. commonly consumed by people of India.

**MATERIALS AND METHODS**  
Fresh vegetable samples of *Amaranthus viridis*, *Raphanus sativus*, *Chenopodium album* and *Spinacia oleracea* were purchased from local vegetable market of Surat in the month of December-January. Vegetables were botanically identified with the help of local flora and authenticated by experts.

**Sample preparation:**  
Fresh green leafy vegetables were rinsed in water, dried on paper towel and the edible portions were separated from the inedible portion. The edible portions were chopped into almost equal small pieces or slices, mixed well and a portion (40 g) of the chopped vegetables was cooked by steaming in 200 ml of distilled water for 10 mins, while the other portion was not cooked. Fresh and cooked samples of the green leafy vegetables were then blended, centrifuged and filtered. The filtrates were stored in the refrigerator for subsequent analysis (Adeglaga and Obboh, 2011).

**Determination of total phenol content**  
TPC were determined by the Folin-Ciocalteu method (J. Lachman et al., 1998) with some modifications. The diluted aqueous solution of each extract (0.5 ml) was mixed with Folin Ciocalteu reagent (0.2 N, 2.5 ml). This mixture was allowed to stand at room temperature for 5 min and then sodium carbonate solution (75 g/l in water, 2 ml) was added. After 2 hours of incubation, the absorbance was measured at 760 nm against water blank. A standard calibration curve was plotted using Gallic acid.

**Determination of total flavonoid content**  
TFC were estimated by Aluminum trichloride colorimetric method (Arvouet-Grand et al., 1994). A diluted methanolic solution (2 ml) of each fruit extract was mixed with a solution (2 ml) of Aluminum trichloride (AlCl<sub>3</sub>) in methanol (2%). The absorbance was read at 415 nm after 10 min against a blank sample consisting of a methanol (2 ml) and with AlCl<sub>3</sub>. A standard calibration curve was plotted using Quercetin.

**Determination of DPPH free radical scavenging assay**  
The DPPH antioxidant assay was determined as described by Shimada et al., (1992). Briefly, 0.5 ml of DPPH radical solution was mixed with an extract of 2 ml. An equal volume of ethanol was added in the control test. The mixture was shaken vigorously and allowed to stand at room temperature for 30 min. Then the absorbance at 517 nm was measured with a UV spectrophotometer. The percentage of scavenging of DPPH was then calculated in the following way:  
DPPH scavenging effect (%) = [1 - (Test sample absorbance/blank sample absorbance)] x 100%

**Determination of total antioxidant capacity (TAC)**  
The total antioxidant capacity of the methanol extract was evaluated by the phosphomolybdenum method according to the procedure described by Prieto et al. (1999). 0.2 ml extract was combined with 2 ml of reagent solution (0.6M sulfuric acid, 28 mM sodium phosphate and 4 mM ammonium molybdate). The absorbance of the reaction mixture was measured at 695 nm using a spectrophotometer against blank after incubation at 95°C for 90 minutes and cooling to room temperature. Reagent (2 ml) in the place of extract was used as the blank.

The results of all these study were presented as the mean of three determinations along with standard deviation. Statistical analysis was done using MS Excel software (CORREL. THEORETICAL FUNCTION).

**RESULTS AND DISCUSSION**

INDIAN JOURNAL OF APPLIED RESEARCH | 1

International Journal of Microbial Science

**Two-Days International Conference Proceeding in Life Science**

Organized by: International Journal of Microbial Science (IJMS)

**Certificate**

This is to Certify that,

**Dr. Murtaza Hajoori**  
Assistant Professor, Bhagwan Mahavir College of Basic & Applied Science, presented a paper on "Single step DNA extraction from Prokaryotes and Eukaryotes" in "Two-Days International Conference Proceeding in Life Science" held on 1<sup>st</sup> March to 2<sup>nd</sup> March 2021. Organized by International Journal of Microbial Science (<https://theijms.com/>), India.

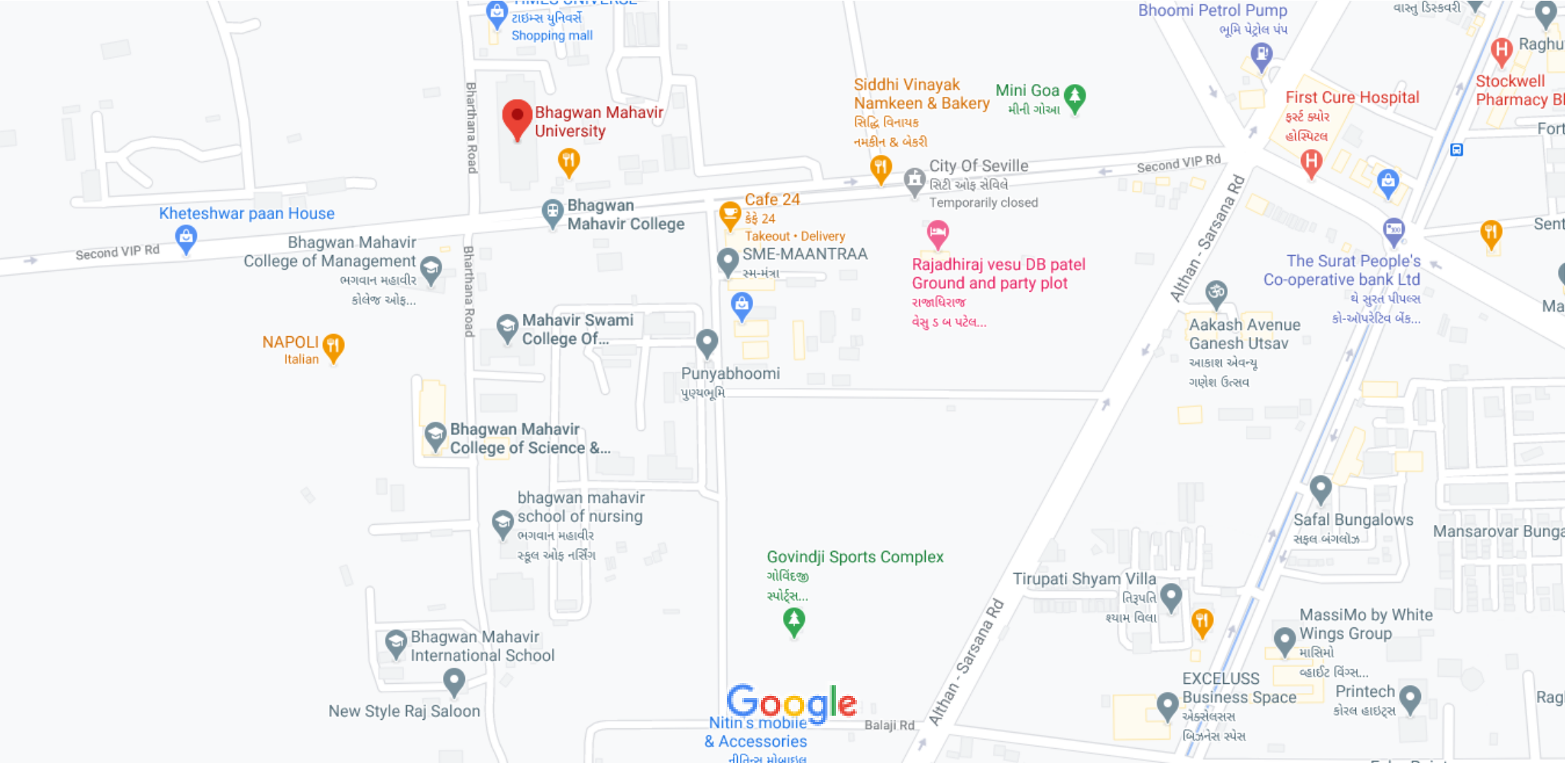
Mr. Amol Jadhav  
Organizing Secretary

Mr. Rajesh Dhakane  
Founder, IJMS

This E-Certificate is digitally signed, valid and issued online in ready to print format.



# Google Maps Bhagwan Mahavir University



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