



**BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT**

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

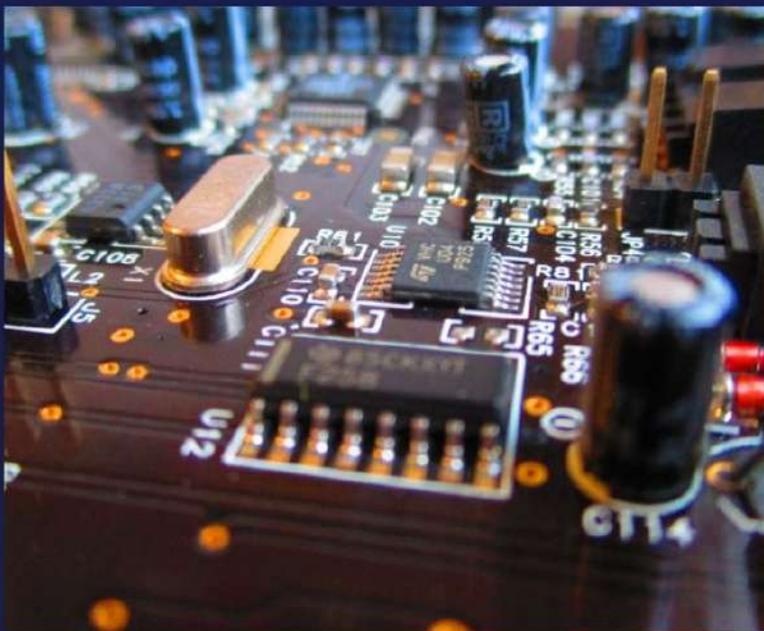
# **LIVEWIRE!**

**JANUARY 2023 -JUNE 2023**

**VOLUME- 4, ISSUE -2**

A bi-annual newsletter

We are glad to present Volume 4 , Issue 2 of Livewire!, the Electrical and Electronics Engineering department newsletter. This issue contains reports regarding departmental advisory board meeting as well as reports on the various activities conducted with the objective of overall student development by the EEE Department, BMSIT & M. This issue also consists of technical, non-technical articles and other creative work by the students of the department





Late Sri B. M. Srinivasaiah  
Founder, BMSET

Promoting prosperity of mankind by  
augmenting human resource capital  
through quality education and training



Late Sri B. S. Narayan  
Donor Trustee, BMSET

## Institution

**Vision:** To emerge as one of the finest technical institutions of higher learning, to develop engineering professionals who are technically competent, ethical and environment friendly for betterment of the society.

**Mission:** Accomplish stimulating learning environment through high quality academic instruction, innovation and industry-institute interface.

## Vision of the Department

To emerge as one of the finest Electrical & Electronics Engineering Departments facilitating the development of competent professionals, contributing to the betterment of society.

## Mission of the Department

Create a motivating environment for learning Electrical Sciences through teaching, research, effective use of state-of-the-art facilities and outreach activities.

## EDITORIAL TEAM



**CHIEF EDITOR**  
Dr. Prashant A. Athavale  
HoD, Assistant Professor



**EDITOR**  
Mr. Vikarm Chekuri  
Assistant Professor



**EDITOR**  
Mrs. Navitha V  
SDA



**EDITOR**  
Mr. K. MOGILAN  
Student

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## Memorable Moments / Best practices

### Parents Teachers Meeting:

❖ Parent – Teacher Meeting (PTM) was organized on 21st January, 2023 in the department of Electrical and Electronics Engineering for First Year Class. The parents' of all the students of the department were informed regarding PTM by the respective proctors' and PTM coordinator. Prof. H D Kattimani, Associate Professor EEE, welcomed the Parents and briefed about the department activities related to academics, co-curricular and other activities going on. All the department faculty members present opined that students need to adjust quickly to new learning environment in this professional program as we have semester system and the exams will approach faster. Faculty members also briefed about the facilities available at department and central level that students can utilize to get higher learning experience and achieve expertise in their interested fields. Subject handling Faculty members and Parents were asked to share their views on academic issues and performance of students and to share any doubts and quarries they have.



**Fig.1 Teacher meeting on January 2023**



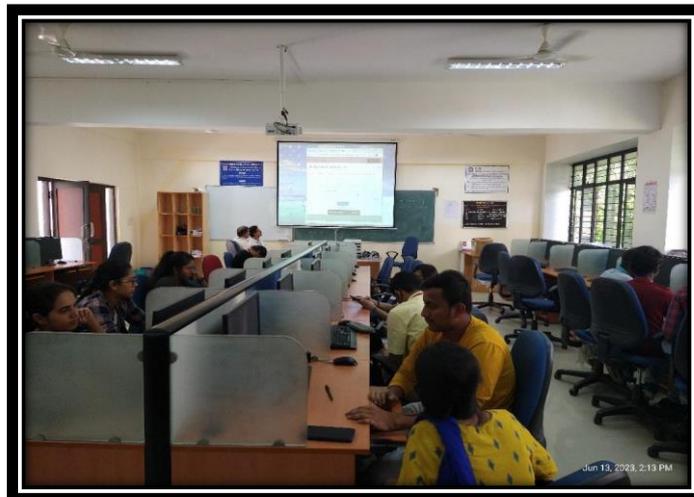
**Fig.2 Parents teacher meeting on 29.04.2023**

❖ Parent – Teacher Meeting (PTM) was organized on 29.04. 2023, in the department of Electrical and Electronics Engineering. The parents’ of all the students of the department were informed regarding PTM by the respective proctors’ and PTM coordinator.

Dr. Prashant A Athavale, HOD EEE, welcomed the Parents and briefed about the department activities related to academics, co-curricular and other activities going on. All other parents who could not make to attend PTM in the department were called over phone and details of academics were shared with them and asked to keep track of their wards towards academics.

### Open Course:

- ❖ The Open Course titled “Software Design for Embedded Controllers” has been organised by EEE Department, for the 4th and 6th Sem students from 12.06.2023 to 16.06.2023. This course is designed to provide students with a comprehensive understanding of the principles and techniques involved in the software design for controllers used for various industrial/commercial applications. Internal Resource Persons were Dr Narapareddy Ramarao and Prof. Kattimani H D.



**Fig.3 Open courses on Software Design for Embedded Controller**

### Industry – Institute Interaction:

- ❖ The Akshay Urja club, organized an industrial visit for the 3<sup>rd</sup> semester, EEE students on a Friday, 27.01.2023. 45 students were taken to the Mahatma Gandhi Institute of Rural Energy & development, also known as MGIRED. The visit was from 10.00 am to 2.30 pm. The institute is located in Jakkur. The institute supports implementation of renewable energy schemes within the state. It has a 200 KW solar plant and some wind turbines. Coordinators were: Dr. Sanjay Lakshminarayanan, Mr. H.D Kattimani, Dr. Prashanth N.A. and Mr. Dattatreya.



**Fig.4 Industry- Institute interaction**



**Fig. 5 Industry Visit to GKVK**

❖ An Industrial visit was arranged by the Department of Electrical and Electronics Engineering for 1<sup>st</sup> semester at GKVK Solar Power Plant on 06.03.2023. A total of 62 students have joined for this industrial visit accompanied by the three faculties (Mr. Babu Naik G, Dr. Prashanth NA and Mr. Nagaraju D C). During the Visit, students have visited GKVK Solar Power Plant which is having a generation capacity of 1000KW. Also visited Biogas Power Plant electric generation 300-320 electrical units/days, 25KVA generator runs for 6-8 hours. The Creation of BIOMASS from waste materials has been demonstrated to students.

### Expert talk organized:

❖ Department of Electrical and Electronics Engineering organized an expert talk under the Akshay Urja club on the topic “Entrepreneurship” for 6th semester students on 08.06.2023. The expert talk was delivered by Mr. Srivathsa, CEO of Specrio Technologies Pvt. Ltd, Bangalore. The activity was coordinated by Dr. Sanjay Lakshminarayanan.



**Fig. 6 Expert talk under the Akshay Urja on the top of “Entrepreneurship” by Mr. Srivathsa**

### Faculty Internship:

- ❖ Prof. Shilpa G, Assistant Professor, Department of Electrical and Electronics Engineering has undergone industry internship at Fluxlink India Pvt. Ltd., from 03.05.2023 to 15.05.2023.
- ❖ Prof. Rajnikanth, Assistant Professor, Department of Electrical and Electronics Engineering has undergone industry internship at Fluxlink India Pvt. Ltd., from 03.05.2023 to 15.05.2023.

- ❖ Dr. Prashant A Athavale, Assistant Professor, Department of Electrical and Electronics Engineering has undergone industry internship at Triveni HiTech Pvt Ltd., from 08.05.2023 to 13.05.2023.
- ❖ Prof. Suma Umesh, Assistant Professor, Department of Electrical and Electronics Engineering has undergone industry internship at Harness-DSA, from 02.05.2023 to 13.05.2023.
- ❖ Prof. Nagaraj D.C., Assistant Professor, Department of Electrical and Electronics Engineering has undergone industry internship at Benaka Technologies, from 03.05.2023 to 13.05.2023.
- ❖ Prof. Ozwin Dominic Dsouza, Assistant Professor, Department of Electrical and Electronics Engineering has undergone industry internship at Benaka Technologies, from 03.05.2023 to 13.05.2023.
- ❖ Prof. Manjula B K, Assistant Professor, Department of Electrical and Electronics Engineering has undergone industry internship at Harness\_DSA, from 10.06.2023 to 22.06.2023.
- ❖ Dr. Prashanth N A, Assistant Professor, Department of Electrical and Electronics Engineering has undergone industry internship at Avi Solar Tech, from 07.06.2023 to 17.06.2023.

### Session Chair:

- ❖ Dr. Madhu Palati, Assistant Professor, Dept. of Electrical and Electronics Engineering was a session chair for ICGCP-2023 (International Conference on "Global Convergence in Technology, Entrepreneurship, Computing and Value Engineering: Principles and Practices"), held on 05.05.2023 at Sapthagiri College of Engineering, Bengaluru.

### Research Centre Activity:

- ❖ Mrs. Nasreen Taj M, bearing USN: 1BY16PEJ01 completed her Ph.D final viva voce on 20.03.2023 at Department of Electrical and Electronics Engineering, under the guidance of Dr. Narapareddy Ramarao.
- ❖ Prof. Shilpa G, bearing USN: 1BY18PEE02 completed her comprehensive viva voce on 08.03.2023 at Department of Electrical and Electronics Engineering, under the guidance of Dr. Sanjay Lakshminarayanan.
- ❖ Prof. Ozwin D'Souza, bearing USN: 1BY18PEE01 completed his comprehensive viva voce on 08.03.2023 at Department of Electrical and Electronics Engineering,

under the guidance of Dr. Madhu Palati. gone industry internship at Avi Solar Tech, from 07.06.2023 to 17.06.2023.

### **KSCST Project:**

The Project “Design and fabrication of Micro Drone for surveillance of Hazardous remote environment” carried out by Karan Kishore, Vishakha Aithal, Gayatri Jaltare and Vertika Srivastava of Electrical and Electronics Engineering department, under the guidance of Prof. Babu Naik G was approved by KSCST for sponsorship amount of Rs.8000/-

# “Journal Section” “LIVEWIRE!!”



### **Initiatives by the Departments:**

- ❖ Dr. Madhu Palti, Assistant Professor, Department of Electrical and Electronics Engineering has received certificate of Excellence for reviewing article in Journal of Engineering Research and Reports
- ❖ Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering has received the certificate of Appreciation for reviewing articles in International Conference on Applied Intelligence and Sustainable Computing, ICAISC-202

### **Reviewer for Journal / Conference:**

- ❖ Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering has received Certificate of Excellence for reviewing an article in Journal of Engineering Research and Reports, January 2023
- ❖ Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering has received Certificate of Reviewing for reviewing an article in Applied Science and Engineering Progress (ISSN 2673-0421), January 2023.
- ❖ Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering was a reviewer for the International Journal of Plant & Soil Science.
- ❖ Dr. Madhu Palati, Assistant Professor of Department of Electrical and Electronics Engineering, was a reviewer of IEEE International Conference on Integrated Circuits and Communication Systems (ICICACS-2023), Organised by Department of Electronics and Communication Engineering H.K.E. Society's S.L.N. College of Engineering, Raichur, India in association with IEEE Bangalore Section and North Karnataka subsection on 24.02.2023 to 25.02.2023
- ❖ Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering was a reviewer for the Journal of Engineering Research and Reports.
- ❖ Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering was a reviewer for "IEEE International conference on Networks, Multimedia and Information Technology, NMITCON-2023.

## **Publication of Research Papers by the Faculty Members:**

### **International Journal:**

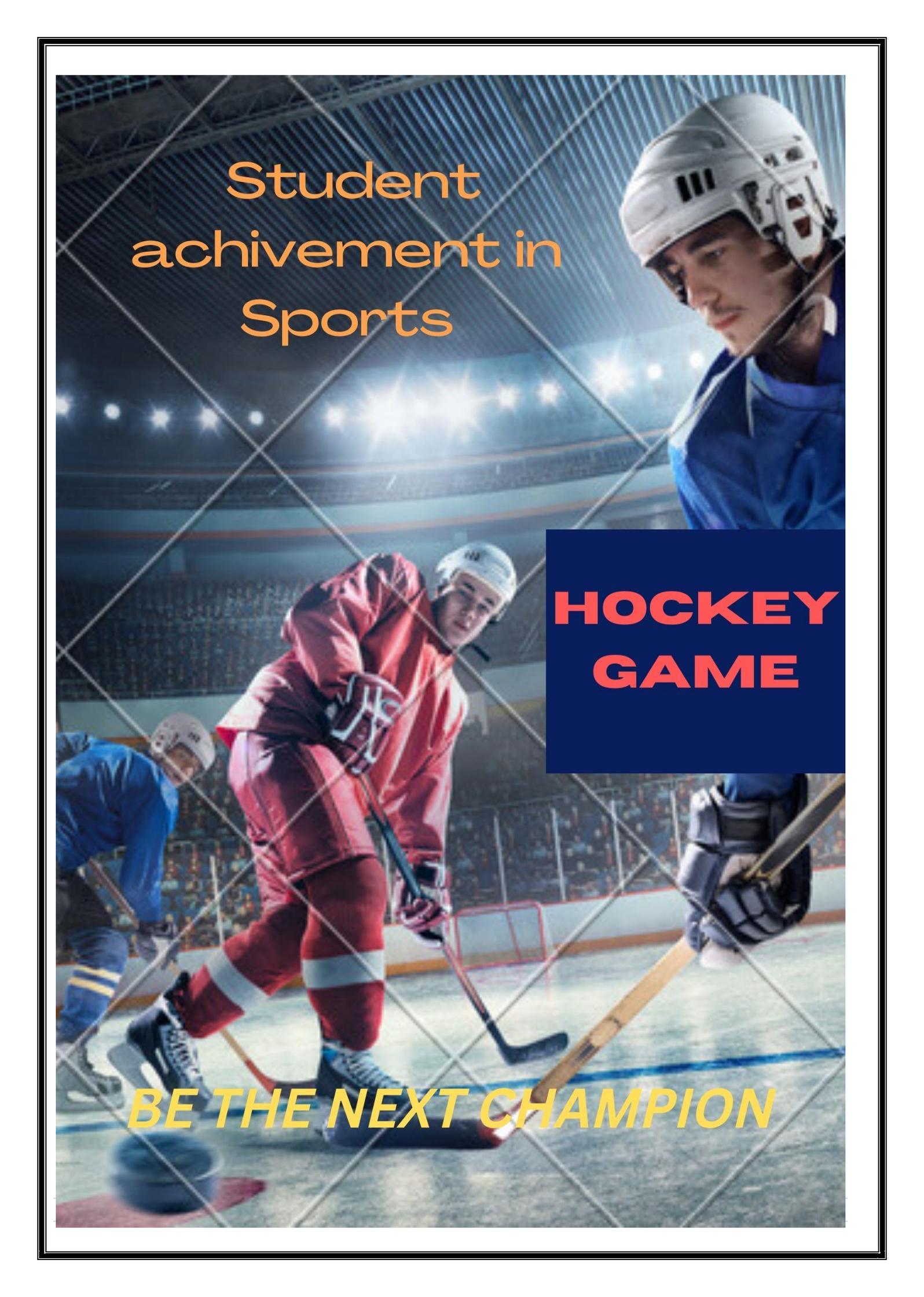
- ❖ H.D Kattimani, Shreehari, S Vasisht, Spoorthi D H, “Prototyping, Simulation an implementation of Wireless Power Transmission for EV Charging”, International Journal of Latest Research in Engineering and Management (IJLREM,) Volume07, Issue02. PP.09-12. ISSN:2456-0766

### **International Conference:**

- ❖ P. Manjunatha Babu, CH Hussain Basha, “A Novel on Performance Analysis of Proton Exchange Membrane Fuel Cell System with Metaheuristic Optimization based MPPT Controller”, International conference on Innovative research in science and technology on 23.05.2023

### **Book Chapter:**

- ❖ Dr. Madhu Palati, Assistant Profesor, Dept. of EEE, authored a chapter titled “Studies on Lightening, Effect and Characteristics of Waveform”, in the book: Research and Developments in Engineering Research, Vol 5, 115-128, 2023.
- ❖ Dr. Prashanth N A, Assistant Professor, Department. of EEE, authoured a chapter titled “A Brief Review of New Technologies Driving Sustainable Development”, in the book: Futuristic Projects in Energy and Automation Sectors, published by Bentham Science Publishers Pte. Ltd, June 2023

A photograph of an ice hockey game in progress. A player in a red uniform is in the center, leaning forward with a hockey stick. To the right, a player in a blue uniform is in a close-up, looking down. In the background, another player in a blue uniform is visible. The scene is set in an indoor arena with bright lights and a crowd of spectators. The image is framed by a black border with a white grid pattern.

Student  
achievement in  
Sports

**HOCKEY  
GAME**

**BE THE NEXT CHAMPION**

# Skating Through Dreams: My Journey as a Student National Hockey Player



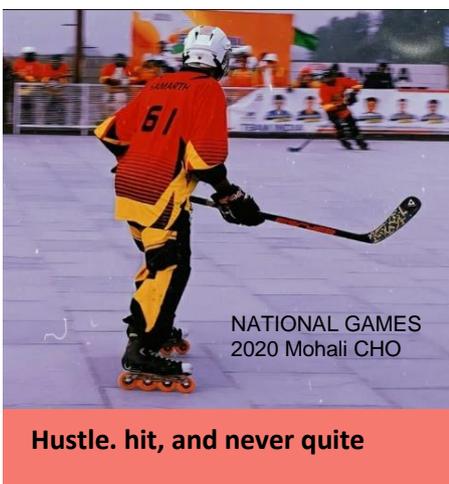
**SAMARTH SRINIVAS,  
EEE**

In the realm of sports, where passion meets perseverance, I stand proudly as a beacon of dedication and achievement. Being bestowed with the honor of representing my nation as a student national player has been a journey marked by sweat, sacrifice, and a burning desire for excellence. This privilege has not only provided me with a platform to showcase my athletic prowess but has also instilled in me a sense of responsibility to uphold the values and spirit of sportsmanship.

Through this article, I aim to share the highs and lows of my life as a student national hockey player. It is a story of early morning workouts and late-night study sessions, of adrenaline-pumping matches and moments of introspection. It is a narrative that seeks to embrace the boundless potential that lies within each one of us. I would also aim to inspire students to prioritize sports over smoking and drinking, highlighting the numerous physical, mental, and social benefits that come with this decision.



NATIONAL GAMES  
2022 Karnataka



NATIONAL GAMES  
2020 Mohali CHO

**Hustle. hit, and never quite**

## **Early Beginnings: Planting the Seeds of Passion**

For me, the love for hockey was ignited at an early age. With a pair of skates and a stick in hand, I first stepped onto the rink, feeling the exhilarating rush of gliding, passing, and shooting. The sense of camaraderie and the thrill of competition fueled my passion, propelling me into a lifelong commitment to the sport.

## **Balancing Act: Excelling On and Off the hockey rink**

As a student, I understood the importance of balance. Juggling the demands of academics and hockey was no small feat, but I approached it with determination and discipline. I recognized that excelling in the classroom was not only a personal achievement, but also a foundation for a bright and promising future. The journey to becoming a national hockey player was not without its hurdles. I faced fierce competition, physical challenges, and moments of self-doubt. However, it was through these trials that my character was forged. Each setback became a stepping stone, and every victory a testament to their unwavering spirit and resilience.

Life as a student can be demanding, with academic pressures, social challenges, and personal issues often taking a toll on mental health. Engaging in sports provides an outlet for stress and pent-up emotions. The release of endorphins during physical activity leads to improved mood and reduced anxiety, offering a natural and healthy alternative to coping with life's challenges.

Sports a pivotal one that can shape the course of a student's life. By embracing sports, individuals embark on a journey of physical well-being, mental resilience, character development, and meaningful social connections. It is a path that leads to a brighter, more fulfilling future

It's not how BIG you are, it's how BIG you play



You only see obstacles when take your eyes off the goals.

It's not how BIG you are, It's how big you  
PLAY!



Sometimes you win, some time you learn

For any suggestion, article queries

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**LIVEWIRE!!**

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