

National Education Society ®, Shivamogga  
**Jawaharalal Nehru National College of Engineering**  
Shivamogga, Karnataka - 577204



**Civil Engineering Association**

# CONSTRO 2019



**THINK OUTSIDE  
THE TRASH...  
“RECYCLE”**



## DEPARTMENT VISION AND MISSION

### VISION

TO BECOME CENTRE OF ACADEMIC EXCELLENCE AND PLACE FOR LEARNING PROFESSIONAL SKILLS TO CATER THE TECHNICAL CHALLENGES POSED BY THE EVER CHANGING GLOBAL ENVIRONMENT AND DEVELOPMENT.

### MISSION

TO IMPART QUALITY EDUCATION AND ADVANCES IN CIVIL ENGINEERING TO MEET THE CHANGING GLOBAL SCENARIO.

TO ASSIMILATE THE SPIRIT OF CREATIVITY, MANAGEMENT AND ENTREPRENEURSHIP IN CIVIL ENGINEERING AND INTER DISCIPLINARY FIELD WITH ETHICAL VALUES.

TO PROVIDE A HEALTHY AMBIENCE FOR TEACHING, RESEARCH, CONSULTANCY AND INDUSTRY INTERACTION ACTIVITIES TO SOLVE ENGINEERING PROBLEMS



## *Message From the Principal*

It gives me an immense pleasure to pen down few words as prologue to Civil Department 2<sup>nd</sup> edition of In-house magazine “CONSTRO 2K19”, exclusively meant for churning out the writing talent which bears immense potentiality of sharpening communication skills as a part of ones overall personality development. I congratulate all the contributors and editorial board bringing out such beautiful magazine.

Empowerment of students for this all-round development through education is our cherished motto. Education is acquisition of knowledge and skills, building character and improving employ ability of our young talent, the future leadership. The measures initiated by the honorable management, steps taken by the college administration, the willing contribution of the teaching and non-teaching staff of the department and overwhelming response and enthusiastic participation of my dear students in department's activities in the recent past all vouch for this. When all contribution come together and work in unision, the expected results are bound to flow.

Come on lets give our best and make this institution dedicated to the cause of better India.

Once again I whole heartedly appreciate the work of event coordinators and the editorial team for their constant work for bringing this 2<sup>nd</sup> edition of Civil department in-house magazine “CONTRO 2K19”.

I wish you all the best.

**Dr. H. R Mahadevaswamy**  
Principal

## *Message From the HOD*



It gives me an immense pleasure to pen down few words about our department. The department was established in the year 1980. Total intake of students is 120 for UG and 18 for PG. The department consists of well qualified staff members in all most all the specialization of Civil Engineering and few of them are pursuing Ph.D degree.

The department is supported with seven laboratories with well sophisticated instruments which fulfils the requirements of V.T.U

The students of our department are being constantly encouraged to actively participate in co-curricular activities along their academic studies. Our students have won several prizes in various inter-collegiate sports events organized by V.T.U.

This magazine is a platform for our students to showcase their writing skills and I would like to appreciate the event coordinators and the editorial team for bringing the second edition of our in house magazine “CONSTRO 2K19” and making it a grand success

**Dr. Rajendra Khatawkar**

Professor & Head

Dept. of Civil Engineering





Dear readers,

We are happy to announce that Department of civil engineering is bringing out the one more issue of our In-house magazine of this academic year 2018-19. We applaud the coordination and efforts of the editorial team in bringing out this issue. We wish them all success.

It is indeed a good moment for our Civil Engineering Department as the students have successfully brought the edition for the successive second year. The most important aspect we could derive from this stupendous effort is that it brings out the various technical and analytical skills of the engineers. We wish them all the very best for releasing more such magazines in future.

“Good things come to people who wait, but better things come to those who go out and get them”

Warm regards

**Sreenivasa V**  
**Sagar H**

CONSTRO - 2019 CO-ORDINATORS

# TEACHING STAFF



**Dr. Rajendra Khatawkar**  
Professor & Head



**Dr. C G Hemamalini**  
Asso. Professor



**Dr. B.S. Karthik**  
Asso. Professor



**Mr. A.N. Srinivasa Pandith**  
Asst. Professor



**Mr. Uamapathi**  
Asst. Professor



**Mr. Shashikumar M. Hiremat**  
Asst. Professor



**Mr. Rabhinandan J.**  
Asst. Professor



**Mr. Irfankhan**  
Asst. Professor



**Mr. Shabareeshwaran**  
Asst. Professor



**Mr. Dattatreya S.B.**  
Asst. Professor



**Mr. Raghuram K.C.**  
Asst. Professor



**Mr. Mohamed Ibrahim N**  
Asst. Professor



**Mr. Adarsha S.R.**  
Asst. Professor



**Mr. Ananda B.**  
Asst. Professor



**Mrs. Bindya K.**  
Asst. Professor



**Mrs. Akshatha M.**  
Asst. Professor



**Mrs. Chaya D.Y.**  
Asst. Professor



**Mr. Srinivasa V.**  
Asst. Professor



**Mr. Sagar H.**  
Asst. Professor



**Mr. Arun V.**  
Asst. Professor



**Mr. Anirudh N.**  
Asst. Professor



**Mr. Bhuvan Kumar V.S.**  
Asst. Professor



**Ms. Kanchana H.J.**  
Asst. Professor



**Mr. Neeraj S.N.**  
Asst. Professor



**Mr. Ganesh Prasanna S.**  
Asst. Professor

# NON TEACHING STAFF



**M R VENKATESH**



**GANESH N**



**MANJUNATH N**



**G H RAVISHANKAR**



**SUNIL G D**



**HANUMANTHAPPA S**



**UMESH M**



**RAGHAVENDRA S**



**YOGESHA**



**KUMAR D.N**



**AVINASH**



# JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING SHVAMOGGA

## DEPARTMENT OF CIVIL ENGINEERING

Contro 2k19 is organized in Civil Engineering department to enhance the students by enriching technical, extra curricular activities. Notable events organized are as follows :

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1. On 15th September 2018, "Engineer's day" was celebrated to remember the great work of sir M. Vishweswarayya. Our NES management, teaching staff and entire civil engineering department honored by naming our seminar hall as "Sir M. V. Hall".
2. "Constro – 2k19" was officially inaugurated by distinguished guest sri Karibhomannanavar, commissioner, shivamoga urban development authority(SUDA) on 20th september2018. All civil engineering students, faculty and staffs have attended the event.
3. From local CADD-Centre shivamogga International Design competition was initiated at JNNCE on 25th October 2018.
4. Mr. Anil Ghaste Auto Desk centre – Dharwad conducted awareness program on Auto CAD Revit ON 13TH November 2018.
5. As a social responsibility event "Fire Brigade Practice" was conducted by district Fire Officer Mr. Ashok Kumar on 16th april 2019 at JNNCE Premises.



Inauguration of "CONSTRO 2K19" by  
**Mr. Karibhimannanavar,**  
The Commissioner  
Shivamogga Urban Development Authority  
(SUDA).



Talk and demonstration on Fire Brigade Practice  
by **Sri. B R Ashok Kumar**  
District Fire Officer  
Karnataka Government Fire-Extinguisher Services  
Shivamogga



Distinguished Alumni Members visited the department and suggested some academic advice. Among the notable visitors to the department were Mr. Lokesh T.R. Dr. S. V. Dinesh, MR. Naveen Navule, Mr. Manjunath, Mr. Nagaraj.



# JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING SHVAMOGGA

## DEPARTMENT OF CIVIL ENGINEERING

Events From 01/07/2018 to 30/09/2018

1. In order to empower the faculties in the research field, Department of Civil Engineering, JNNCE Shimoga, has conducted a one week ISTE sponsored workshop on Construction Project Management from from 23/07/2018 to 27/07/2018. This interactive workshop accompanied with actual case studies introduces Civil Engineering Faculty members to the management techniques involved over the complete time line of a construction project, exposing them to the various roles of a construction project manager.



2. Department of Civil Engineering, JNNCE Shimoga,, has organized 2 day international conference from **27th and 28th September, 2018**. on “**Emerging and Sustainable Trends in Civil Engineering -ESCE 2018**” sponsored by SERB India and in association with ISTE and CBIR., targeting researchers, faculties and students who are in their early stage of their research. This conference spreads the essence of emerging trends of civil engineering and showcased various researches which are carried out in the field of Civil Engineering.





### 3. Paper Publications in Journals/ Conference :

- \* Mr. Sabareeshwaran S, Assistant Professor, Department of Civil, has presented paper on “ **Performance of concrete with plastic granules as a partial replacement of fine aggregate**” in International Conference on “Emerging and Sustainable Trends in Civil Engineering -ESCE 2018” held at Jawaharlal Nehru National College of Engineering, Shimoga on 27th and 28th of September 2018.
- \* Mr. Adarsha S R, Assistant Professor, Department of Civil, has presented paper on “**smart helmet**” in International Conference on “Emerging and Sustainable Trends in Civil Engineering -ESCE 2018” held at Jawaharlal Nehru National College of Engineering, Shimoga on 27th and 28th of September 2018.
- \* Mrs. Akshatha M, Assistant Professor, Department of Civil, has presented paper in International Conference on” **partial replacement of bitumen by waste plastic residue in bituminous concrete mix**” in “Emerging and Sustainable Trends in Civil Engineering -ESCE 2018” held at Jawaharlal Nehru National College of Engineering, Shimoga on 27th and 28th of September 2018.
- \* Mrs. Chaya D Y, Assistant Professor, Department of Civil, has presented paper in International Conference on “**Estimation of crop water requirement for arecanut plantation**” at shivamogga city “Emerging and Sustainable Trends in Civil Engineering -ESCE 2018” held at Jawaharlal Nehru National College of Engineering, Shimoga on 27th and 28th of September 2018.
- \* Ms. Kanchana H J, Assistant Professor, Department of Civil, has presented paper “**Experimental study on influence of nature of fluids on darcy's friction coefficient**” in International Conference on “Emerging and Sustainable Trends in Civil Engineering -ESCE 2018” held at Jawaharlal Nehru National College of Engineering, Shimoga on 27th and 28th of September 2018.
- \* Mr. Anirudh N, Assistant Professor, Department of Civil, has presented paper in National Conference and Workshop on “**Recent Advances in Traffic Engineering-2015(RATE 2018)**” held at Sardar Vallabhbhai National Institute of Technology Surat(SVNIT,Surat) on 11th and 12th of August 2018. and inInternational Conference on “Emerging and Sustainable Trends in Civil Engineering -ESCE 2018” held at Jawaharlal Nehru National College of Engineering, Shimoga on 27th and 28th of September 2018.

#### 4. Other Events :

- \* Prem Kumar , student 7th semester from Department of Civil has won Gold Medal in Powerlifting under Gold Mens 66 Kg category organised by Sahyadri College of Engineering Mangalore. And he has set VTU record in Squat 190 Kg, Deadlift 220 Kg, and he has also created total weight record in 510 Kg.
- \* Deepak Ashok Doddagoni student from 7th semester participated in seminar competition (ADVITIYA) held at KLEIT Hubli and won 1st place with cash price of Rs. 5000

#### **CIVIL DEPARTMENT NEWS FOR THE PERIOD OCT-2018 TO MARCH 2019**

1. Dr. C G Hemamalini , Associate Professor, Department of Civil has published 2 journal papers , “Multiple linear regression model for removal of Iron for using low cost Adsorbents” and “Removal of Nickel from waste water using Natural Adsorbents through Regression Model” in Bulletin of Pure and Applied Sciences Section C- Chemistry in December 2018, Volume 37.
2. Mohammed Mehran , 6th Sem Civil Engineering has achieved 3rd Place in “Best Startup in the Field of Social and Sustainability” in Startup India Yatra, hosted by Central Government of India held in Bangalore.
3. Prathibha H G, 6<sup>th</sup> sem civil Department has secured 1<sup>st</sup> place in shuttle badminton held at PES University Bangalore from 9-10-2018 to 13-10-2018. And women's doubles winners and women's single Runner up in shuttle badminton at Chairman's Club Bangalore on 25-01-2019
4. Mr. Ganesh Prasanna S , Assistant Professor Department of Civil Engineering, served as a Tournament Convener and Umpire at Bhadravathi for South Zone Inter University Cricket Tournament 2019.
5. Dr. C G Hemamalini ,Mr. Sabareshwaran S, Mr. Dattatreya S B, Department of Civil has attended one week National level workshop on “Differential Geometry and its Applications in Engineering Field ” organized by department of Mathematics, JNNCE, Shivamogga on 21<sup>st</sup> to 25<sup>th</sup> January 2019
6. Pranav V of 8<sup>th</sup> Sem and Mohammed Mehran of 6<sup>th</sup> sem of Civil Department has secured 3<sup>rd</sup> place and 1<sup>st</sup> place in Photography and Pick and speech event at “Sahyadri Siri” cultural event held at Sahyadri College of Arts Shivamogaa on 16<sup>th</sup> March 2019.
7. Dr. C G Hemamalini , Associate Professor, Department of Civil has participated in an AICTE Sponsored Short Term Course “Hydrologic-hydraulic modeling of flashflood ” organized by department of Civil, Indian Institute of Technology, Madras from 19<sup>th</sup> march to 22<sup>nd</sup> march 2019
8. Civil Department Students have bagged Overall Championship in “Tantragyaan-2019 “ held at JSS Mysore on 25<sup>th</sup> and 26<sup>th</sup> march 2019

“ಶಾಲಾ ಕಾಲೇಜುಗಳಲ್ಲಿ ಹುಡುಗಿಯರೆಲ್ಲ ಯಾವಾಗಲೂ ಫನ್ಸ್ ಬರುವ ಹಾಗೆ ಓದುತ್ತಾರೆ, ಯಾಕೆಂದರೆ ಫೇಲ್ ಆದರೆ ಮನೆಯಲ್ಲಿ ಬೇಗ ಮದುವೆ ಮಾಡಿಬಿಡುತ್ತಾರೆ ಎಂಬ ಭಯಕ್ಕೆ.”

“ಸಂಸಾರ ಎಂಬುದು ಬಬಲ್ ಗೇಮ್‌ನಂತೆ, ಆರಂಭದಲ್ಲಿ ಸಿಹಿಯಾಗಿರುತ್ತದೆ ನಂತರ ಎಳದಷ್ಟು ಎಳೆಯಲ್ಪಡುವ ರಬ್ಬರ್ ಅಂತರಲ್ಲಾ, ಆಮೇಲೆ ಯಾರಿಗೂ ಬೇಡವಾದ , ಕಂಡವರಿಗೆ ಅಂಟಿಕೊಳ್ಳುವ ತಿಗಣಿ ಆಗುತ್ತದೆ.”

“ಜನರು ನಮ್ಮತ ನೋಡಲು ಸೌಂದರ್ಯ ಕಾರಣವೆಂದು ಭೀಕರವೇ, ಜಿಂಪಾಜಿ ಗೋರಿಲ್ಲಗಳು ಜನರನ್ನು ಆಕರ್ಷಿಸುವುದನ್ನು ನಾನು ನೋಡಿದ್ದೇನೆ.”

“ಗಡ್ಡೆ ದೊಡ್ಡನದ ಗುರುತು ಎಂದು ಅನುವರು ಒಂದು ಸಂಗತಿಯನ್ನು ಗಮನಿಸಬೇಕು ಮೇಕೆಯೇ ಪ್ರಧಾನಮಂತ್ರಿ ಹಾಗೆಬೇಕಿತ್ತು.”

“ಎಂಜಿನಿಯರಿಂಗ್ ಜೀವನವು ನಮ್ಮ ಕಾಲೇಜಿನ ವೇದಾವತಿ ಬಸ್ಸು ಪ್ರಯಾಣವಿದ್ದಂತೆ, ಓಡುವಾಗ ಗಾಳಿ ಬಹಳ, ನಿಂತಾಗ ವಿಪರೀತ ಸೆಕೆ.”

“ಬರ್ತಡೇ ಪಾರ್ಟಿ ಎಂದರೆ : ಕೆಲವೇ ಜಾಣರ ಲಾಭಕ್ಕಾಗಿ ಹಲವಾರು ಮೂರ್ಕರು ಕಟ್ಟುವ ಗುಂಪು.”

“ಜೆಜ್ಜಿ ಎಂದರೇನು : ಜಾಣರು ಗುದ್ದಾಡಿದರೆ ಚರ್ಚೆ ಆಗುತ್ತದೆ, ದಡ್ಡರು ಚರ್ಚೆ ಮಾಡಿದರೆ ಗುದ್ದಾಟ ಆಗುತ್ತದೆ.”

“ಮುಳ್ಳು ಮುಳ್ಳಿನಿಂದಲೇ ತೇಗೆಯಬೇಕು ಅನ್ನುವವರು ಒಂದು ಸಂಗತಿಯನ್ನು ಗಮನಿಸಬೇಕು. ಬಿಂಕಿ ನಂದಿಸುವವರು ನೀರನ್ನು ಉಪಯೋಗಿಸುತ್ತಾರೆ !!!!!!!!!!!!!”

“ನಮ್ಮ ಕಾಲೇಜಿನಲ್ಲಿ ಹುಡುಗಿಯ ಪ್ರೀತಿ ಅವಳ ಹೊರತಾಗಿ ಉಳಿದವರಿಗೆ ಗೋತ್ತಿರುವುದಿಲ್ಲ, ಅದರ ಹುಡುಗ ಪ್ರೀತಿಸುವುದು ಹುಡುಗಿಯೊಬ್ಬಳನ್ನು ಬಿಟ್ಟು ಕಾಲೇಜಿಗೆಲ್ಲ ಗೋತ್ತಿರುತ್ತದೆ!!!!!!”

“ಆಸೆ ದುಃಖಕ್ಕೆ ಕಾರಣವಾದರೆ : ವಿಜಯಕ್ಕೆ ಶತ್ರು ಕಾರಣವಂತೆ... ನಿಜವೇ? ಹಾಗಾದರೆ ರೋಗಕ್ಕೆ ಔಷಧ ಕಾರಣ ಅಂದಂಗಾಯ್ತು.”

“ಗುರುಗಳೇ ಮತದಾನ ನಮ್ಮ ಹಕ್ಕು ನಿಜ, ಆದರೆ ಒಳೆಯ ಅಭ್ಯರ್ಥಿ ಇಲ್ಲವಾದರೆ ಏನು ಮಾಡುವುದು. ಇದ್ದವರಲ್ಲಿಯೇ ಕಡಿಮೆ ಕೆಟ್ಟವರನ್ನು ಆರಿಸಿ ಸಮಾಧಾನ ಪಡಬೇಕು.”



**ಬಸವಲಿಂಗ.ಬಿ**  
ನಾಲ್ಕನೇ ಸೆಮಿಸ್ಟರ್,

## ಸ್ನೇಹದ “MOBILE”

ನೆನಪು - Balance  
ಮಾತು - Currency  
ಹೃದಯ - Tower  
ನಗು - Charger  
ನೋಟ - Sim Card  
ಅಳು - Low Battery  
ಕಷ್ಟ - Switch Off  
ಸಂಬಂಧ - Extra Offer  
So ಸ್ನೇಹ ಒಂದು “MOBILE”

## KANNADA

**K** - ಕಲಿತವರಿಗೆ

**A** - ಅಮೃತ

**N** - ನೆನೆದವರಿಗೆ

**N** - ನೆರಳು

**A** - ಅಂಧರಿಗೆ

**D** - ದಾರಿದೀಪ

**A** - ಅಪ್ಪಿಕೋ ಕನ್ನಡವ



**JEEVITHA. B**  
6<sup>th</sup> Sem

## ನಿಸರ್ಗ

ನಿನ್ನ ನಿಶ್ಯಬ್ದತೆಯೇ ಶಬ್ದ ಮಾಡಿದಂತೆ,  
ಆ ಶಬ್ದ ನಿಂತರೆ ಬದುಕು ಸ್ಥಬ್ದವಾದಂತೆ..  
ನಿನ್ನ ಕನಸೇ ಹಸಿರ ಹರಡಿಸುವಂತೆ,  
ಆ ಹಸಿರ ಮರೆತರೆ ಉಸಿರ ತೊರೆದಂತೆ.....

## ಬೆಳಕು

ಮುಗಿದ ಮೇಲೆ ನಿನ್ನೆಯ ಕತ್ತಲಿನ ಅಂತಿಮ ಮೆರವಣಿಗೆ  
ಇಂದಿನ ಬೆಳಕಿನ ಬೆಳವಣಿಗೆ  
ಕವಲುದಾರಿಯ ತಿರುವಿನ ಕಡೆಗೆ, ಅಲೆಯ ಮೊರೆತದ ಕಡಲಿನ ಕಡೆಗೆ,  
ಹುಟ್ಟಿ ಸಾಯುವ ಜೀವನದ ಕಡೆಗೆ, ಕೊನೆಗೆ ಮತ್ತೆ ಮೂಡುವ ಸಂಜೆಯ ಕಡೆಗೆ...

ಮೊದಲ ಮಳೆ ಬರುವ ಸಮಯ  
ಬೇಸರ ಸರೆಸಿ ನೇಸರ ಮರೆಗೆ  
ಅಂತರ ಮರೆಸುವ ಆ ಘಳಿಗೆ  
ಉತ್ತರವಿಲ್ಲದ ಕಾತುರ ಭುವಿಗೆ  
ಹತ್ತಿರವಾಗುವ ಆತುರ ಮಳೆಗೆ...



**KARTHIK**  
6<sup>th</sup> SEM

## THE GOOD TIMES

**Friends,**

Our life is given by God, God in real life refers to our surrounding or nature. Our surrounding nature is so beautifully designed that sometimes we feel God must be a CIVIL ENGINEER, don't know from which college he completed his Bachelor degree. To be Civil Engineer one must be a dreamer, in fact every engineering student must be a dreamer. We all should understand that an engineer needs to be a dreamer so that he/she can show the future to the world We are Civil students and God is our super senior.

"2015"- It was the time when we all entered this engineering world. with the bit of hesitation everybody were known as the time passed. That 'STEP' Building holds some good memories to each one of us in one or the other way, chemistry labs, physics lab, those assignments, internal marks was the world, but after entering into our Civil Engineering Branch things were not the same although assignments, internal marks worried a much.

"2019"-Friendship, enmity, groups, trips, survey camp, TechZone, Constro, seminars, notes, Xerox, library books, projects etc. etc. have finally brought us to this final days of Engineering. There were the days when we murmured 'four long years', but now we are left with few more days. Yes we re all unique in our own ways, every individual is versatile in his/her way. Sun rises and sets, time runs and so as we need to step out. Nothing comes easily unless we work on it, it may be our studies or our problems. Perseverance is the means to get our fruitful results in what we do.

Finally lets keep cherishing good moments as always.....



**Deepak Ashok Doddagoni**  
8th sem

## GREAT LITTLE WORDS IN RIGHT ORDER :

- |  |  |
|--|--|
| <b>A</b> – A friend in need is a friend indeed.              | <b>N</b> – Necessity is the mother of invention.             |
| <b>B</b> – Better be alone than in bad company.              | <b>O</b> – Observation is the best teacher.                  |
| <b>C</b> – Charity begin at home.                            | <b>P</b> – Perseverance conquers all difficulties.           |
| <b>D</b> – Dawn and truth will always become visible.        | <b>Q</b> – Quiet in class quick in learn.                    |
| <b>E</b> – Experience is the mother of wisdom.               | <b>R</b> – Repetition is a jewel which nothing can replace.  |
| <b>F</b> – Fire and water are good servants but bad masters. | <b>S</b> – Sweet things are bad for the teeth.               |
| <b>G</b> – God helps to those who helps others.              | <b>T</b> – The noblest revenge is forgiveness.               |
| <b>H</b> – Honesty is the best policy.                       | <b>U</b> – Unity is strength.                                |
| <b>I</b> – Industry [hard work] is the right hand of future. | <b>V</b> – Virtue is a jewel of great piece.                 |
| <b>J</b> – Judge not the men or things at first sight.       | <b>W</b> – Wisdom is to the soul what health is to the body. |
| <b>K</b> – Knowledge is power.                               | <b>X</b> – Xanthic eyes look everything yellowish.           |
| <b>L</b> – Live to learn and learn to live.                  | <b>Y</b> – Young man are the power [salt] of the nation.     |
| <b>M</b> – Manners and money make a gentleman.               | <b>Z</b> – Zeal to learn is the good way for success.        |



**JEEVITHA B.**  
6<sup>TH</sup> SEM

# *Violence Against Women*

Women have been subjected to violence and torture for centuries. This is not a new phenomenon. They have been victimized all through the ages in every society, regions and cultures irrespective of castes, communities, creeds and colours. It is not simply born out of exigencies of biology and social situations. It is deeply rooted to myths, legends and culture.

India is really ironic in particular case of India where the images of women are worshipped in various forms such as Goddess Kali, Durga, Saraswati, Lakshmi, Parvathi, etc. Infact there is a dual concept of female in hindu philosophy. On the one hand she is considered fertile, benevolent, bestower of prosperity, symbol of strength. On the other hand she is beaten, tortured, assaulted and victimised.

The story of women's harassment, torture and violence is very old dating back to ancient India, when Manu laid down the Hindu social code. The laws insist that a women must constantly worship her husband as a God even if he is not a man of good moral character.. The salvation and happiness of a women revolve round her virtue and chastity as a daughter as a wife and a mother.

In the vedic period, women enjoyed relatively respectable position in society. Gradually the power of women began to deteriorate. They are deprived of society, political, educational, economical and cultural opportunities. They were treated as slaves.

During the medieval age when Islam along with Hinduism spread in India, the incidence and violence increased manifold and form of violence changed and became more complex. In certain communities the new born baby girls began to be killed by the parents themselves. Polygamy became rampant.

The Ramacharitamans mention the condition as follows,

*Dhol Ganwar Shudra Pashu Nari*

*Ye Sab Taram Ke Akhikari.*

It means that the drum, the uncultured, the untouchable, animals and women should be beaten.

According to one estimate, there are about thirty specific forms of violence being committed against from the pre-natal stage to their death. These include foeticide, infanticide, insufficient supply of nutritious food, social n medical neglect, deprivation from educational opportunities, child marriage, sexual abuse of girl child, physically assault, forced marriages, rapes, prostitution, wife battering, bride burning, etc.

Most of these violences against women have their rootes in their social position. A female foetus is destroyed due to supposition that the girl child is unwanted because she is seen as social burden. This is to some extent borne out of the evil practise of dowry in Indian society.



the category of unkept promises. However, *THE PROHIBITION OF VIOLENCE AGAINST WOMEN ACT, 2007* is a milestone in this regard. It lays down ample provision to check violence against women.

Apart from legal and constitutional provisions, women themselves need to be more aware against the violence. Besides, they have to be trained to tackle the situation and take precautionary measures. Moreover, law enforcing machinery should be made prompt, responsible and sensitive to the issue, other voluntary organisations need to be involved in fighting this social via above all the mindset of the society needs to be changed.

As Charles Fourier says, “The extension of women's rights is the basic principles of all social progress.”



**Kavya S**  
**6<sup>th</sup> Sem**



## **WORLD S HIGHEST RAILWAY BRIDGE**

Chenab Bridge: India's remarkable engineering feat and the world's highest railway bridge to open soon! Indian Railways is building the world's tallest railway bridge in the state of Jammu and Kashmir over Chenab river. This arch bridge is being built at a height of 359 metres above the waters of the Chenab river. Astonishingly, the bridge will be taller than Paris' famous Eiffel Tower! The Chenab river rail bridge is being built over a difficult terrain and Indian Railways is making use of several new techniques and methods for the project. It is expected to be complete by 2019-end. Here are 10 interesting facts about the upcoming Chenab rail bridge:

1. The arch bridge will be 1.315-km-long and is being built at a height of 359 metres above the Chenab river. This makes the bridge 35 metres taller than the Paris's famous Eiffel tower. It will have railway stations at both the terminal ends.
2. The Chenab bridge forms an important link in the 111-km railway line between Katra and Banihal. This segment is a part of the Udhampur-Srinagar-Baramulla section of the Kashmir Railway project. The Kashmir rail link project which is 325-km-long is said to be one of the the most expensive stretch out of the entire 66,000-km railway line in India.
3. The area boasts high potential for the tourism sector. There are plans to host additional activities especially for tourists in the region. These recreational activities will include bungee jumping and other such exciting adventure sport events. In addition to this, sightseeing points, trekking routes as well as hotels are also expected to come up in the area for the tourists.
4. Indian Railways plans to install sensors on the bridge to check the wind velocity. Whenever the wind speed will exceed 90 kmph, the signal on the railway track will turn red to stop the train movement.



5. Defence Research and Development Organisation (DRDO) is working with Indian Railways to make sure that the Rs 12,000-crore bridge can withstand any major blast in the terrorism-prone region. To boost the safety and security measures, the bridge is being built with 63 mm-thick special blast-proof steel.
6. Designed by consultants from Finland and Germany, the bridge is 'blast proof'. The concrete pillars of the railway bridge have been designed to withstand explosions. For this, the bridge will include a 14 metre-wide dual carriageway and a 1.2 metre-wide central verge.
7. The arch bridge has been designed in such a way that it can bear earthquake forces of zone V, even though the site falls under zone IV. Zone V is the highest intensity zone in the country.
8. For enhancing safety, a 'ring of aerial security' will also be provided to protect the bridge. An online monitoring and warning system will be installed on the bridge for the safety of passengers and trains. Additionally, footpaths and cycle trails will be built adjacent to it.
9. Making steel as an inclusive material will prove to be more economical as it can take temperatures as low as -20 degrees Celsius. This will be a crucial aspect, given the location of the bridge. Steel can also resist speeds of above 250 kmph as well. For the construction of the bridge, 24,000-plus tonnes of steel will be utilized.
10. In order to reach the site of the bridge, Indian Railways had to build around 22 km of roads. For inspection and maintenance purposes, a ropeway is also being installed on the bridge.



**SATYAM GUPTA**  
4<sup>th</sup> sem.

## **SEXUAL HARASSEMENT OF WOMAN IN DAILY LIFE :**

Is being a girl a punishment? Is being a girl means losing her own self-respect and still working for her family, for others? Is being a girl means to spend her life in just four walls of her house?

The questions above being asked are because of the irrational and undesirable behaviours of men in and outside homes, which every second girl must face daily in her routine life. This kind of unexpected behaviour is known as Sexual Harassment. Sexual harassment is intimidation, bullying or coercion of a sexual nature, or the unwelcome or inappropriate promise of rewards in exchange for sexual favours.

Sexual harassment could take place anywhere, at any time, by anyone and in any form. It could happen at public places, school, educational institutes, workplace, even at home. Sexual harassment can be verbal (comments about your body, spreading sexual rumours, sexual remarks or accusations, dirty jokes or stories), physical (grabbing, rubbing, flashing or mooning, touching, pinching in a sexual way, sexual assault) or visual (display of naked pictures or sex-related objects, obscene gestures). Sexual harassment can happen to girls and boys. Sexual harassers can be fellow students, teachers, principals, janitors, coaches, and other school officials.

The victims of sexual harassment are mostly girls/women. It indicates that it is not safe for girls to move out of their houses. They are harassed everywhere might be it an educational institute or workplace. Even age is not a concern. Either a little school going girl, or a middle-aged lady all are same in the eyes of harassers. Harassers are just like hungry beasts who just want a prey to satisfy their hunger.

I would like to clear the situations which girls have to face at different places by giving a true example, a girl, in medical college of first year was threatened by her professor to attend his classes failing which, the professor insulted and humiliated her in the class. He blackmailed her to spend a night. Finally, the girl complained against the professor to the college management and continued her studies.

Every second girl in the world must face such situations daily. One of the difficulties in understanding sexual harassment is that it involves a range of behaviour and is often difficult for the recipient to describe to themselves, and to others, exactly what they are experiencing. Moreover, behaviour and motives vary between individual harassers.

Effects of sexual harassment can vary depending on the individual, and the severity and duration of the harassment. Often, sexual harassment incidents fall into the category of the

“merely annoying.” However, many situations can, and do, have life-altering effects particularly when they involve severe/chronic abuses, and/or retaliation against a victim who does not submit to the harassment, or who complains about it openly. Indeed, psychologists and social workers report that severe/chronic sexual harassment can have the same psychological effects as rape or sexual assault.

Sexual harassment is illegal. If a girl is being harassed, then she need not to be afraid but try to fight against it and get the harasser punished. If she is being sexually harassed, then she should tell someone who could help her. She could opt for following steps:

Say “No” Clearly: Tell the person who is harassing you that his/her behaviour offends you. They may not realize how hurtful their behaviour is and may need a clear message from you to stop.

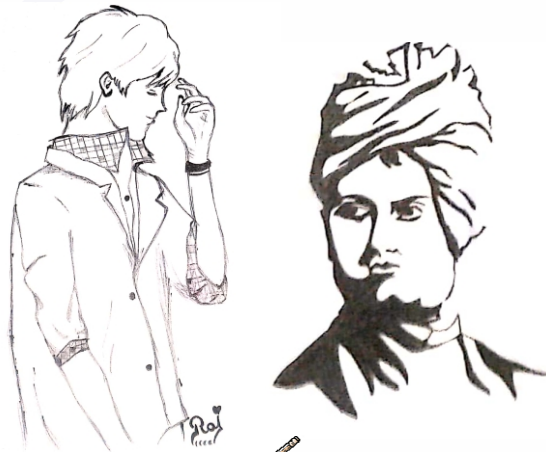
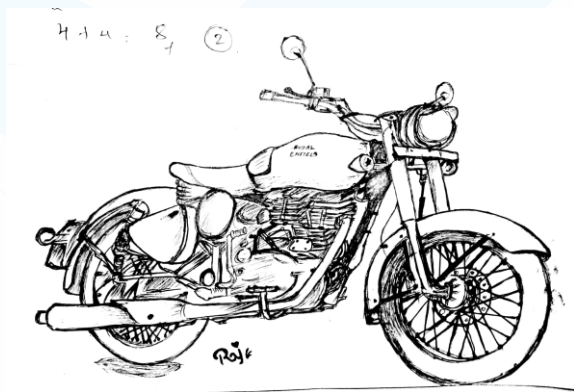
Complaint the Authority: A File a written or verbal complaint to the highest authority like the principal, teacher, manager, boss or your parents specifying the whole situation with accurate time and date. If possible, show the proofs, like a letter or any slip.

File a Complaint with a Government Agency: In India there are not many laws regarding the same. Those found guilty can be punished under section 294 and sec 509 of IPC. Recently, in 2006, Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Bill, 2006 has been passed. According to India's constitution, sexual harassment infringes the fundamental right of a woman to gender equality under Article 14 of the Constitution of India and her right to life and live with dignity under Article 21 of the Constitution.

Even after so many efforts of the Government of India the cases for sexual harassment have seen no decline. The people who are assigned for our help, that is the cops and Government employees, are now themselves are harassers in many cases. The provisions contain several loopholes which can be exploited easily by the harasser in his favour. Clearly the provisions and laws need to be more comprehensive to provide a means of justice to those who have been victims and a means of protection for those who could be potential victims.



# DRAWINGS



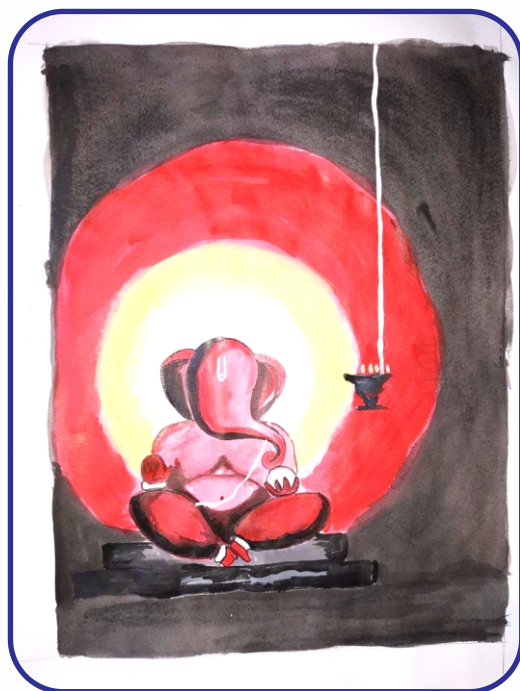
**NAGARAJ A.M**

8th sem



**NISHMITHA**

8th sem (2)



**SANJANA S.R**

8th sem

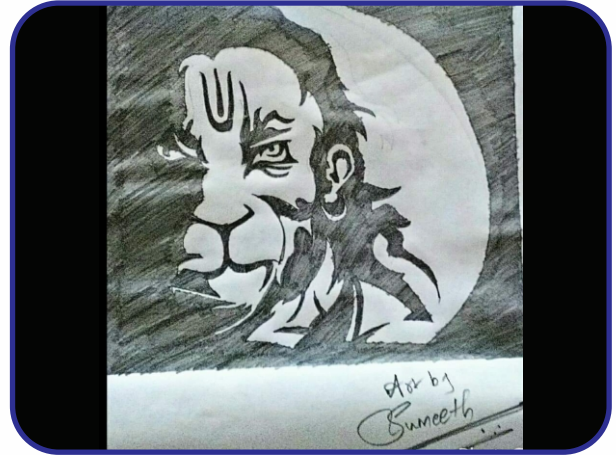


**SEEMA J.**

8th sem



## Digital Manipulation



**SUMITH MAHALE**  
8th sem



**POOJA AJ**  
8th sem

# ACHIEVEMENTS

## TANTRAGYAAN, MYSORE (25TH - 26TH MARCH 2019)

SOIL MYTHOLOGY	Nagashree G E Sowmya Khurat-ul ain	1st PLACE
MODEL MANIA	Megha A V Manohara S G Pavan S P Gowda Sumeeth Pradeep Mahale	2nd PLACE
POTENTIAL PROFESSOR	Mohammed Meharen	1st PLACE
PHOTOGRAPHY	Mohammed Meharen	2nd PLACE
AUTO CARD	Sumeeth Pradeep Mahale Sushmitha S	1st PLACE



## NIRMAAN, BENGALURU (2018)

**D-CON-CUBE**

**Megha A V  
Manohara S G  
Y S Tanushree  
Pavan S P Gowda**

**1st PLACE**

**D-CON-CUBE**

**Pranava V  
Pradeep G B  
Sumeeth Pradeep  
Mahale**

**1st PLACE**



### *Achievements*

#### **PREM KUMAR R.**

Participated in VTU "Power Lifting" competition  
2018-2019 under 66 kg category.

Position	:-	1st (Gold) Created 3 new meet records
1) Squat	:-	190 kg (New VTU record)
2) Bench press	:-	100 kg
3) Dead lift	:-	220 kg (New VTU record )
4) Total	:-	510 kg (New VTU record) Represented VTU in "All India inter university power lifting championship 2018-2019 " held at 'Sahrdaya college of Advanced studies', 'University of Calicut', Kerala..





## *Achievements*

### **MOHAMMED IBRAHIM S**

2018-19 Achievements in (Martial arts) Karate, Wushu & Qwan-Ki-Do  
At All India Inter University competition, National level & State Level competition

1. Won Gold medal by representing VTU in “All India inter university Qwan Ki Do Championship” held at Maharishi Dayanand University, Rohtak, Haryana from 14<sup>th</sup> to 17<sup>th</sup> March 2019.
2. Won 1 silver & 1 bronze medal by representing VTU in “All India inter university Wushu Championship” held at Punjab University, Chandigarh from 10<sup>th</sup> to 16<sup>th</sup> March 2019.
3. Represented VTU in “All India inter university Karate Championship” held at Maharishi Dayanand University, Rohtak, Haryana from 20<sup>th</sup> to 26<sup>th</sup> February 2019.
4. Won Gold medal in “National level Qwan Ki Do championship 2019” held at Rohtak, Haryana from 26<sup>th</sup> to 28<sup>th</sup> April 2019.
5. Participated in “27<sup>th</sup> senior national Wushu championship-2018” held at Shillong, Meghalaya from 10<sup>th</sup> to 14<sup>th</sup> October 2018.
6. 3 gold medals in “17<sup>th</sup> Karnataka state Wushu championship-2018” held at Shimoga from 6<sup>th</sup> to 10<sup>th</sup> September 2018.
7. Won 2 Gold medals in “6<sup>th</sup> IGKA Karnataka state karate championship” held at Shimoga on 27<sup>th</sup> January 2019.
8. Participated in “Dasara Games CM cup” organized by Govt. of Karnataka held at Mysore from 13<sup>th</sup> to 18<sup>th</sup> October 2018.

# SPORTS

Sports means any physical or mental activity requiring physical or mental exercise with an element of competition in it. Playing sports develop leadership qualities as well as team spirit and unity among the team mates which is good for nation building.

Sports teaches you character, it teaches you to play by rules, it teaches you to know what it feels like to win and lose, it teaches you about life. Self-confidence. It helps in developing sportsmanship in an individual and makes him more patient, emotionally powerful and strong enough to face any difficulties of life. Sports provide relief from stress and depression and help to grow our Don't stop when you are tired, stop when you are done.

- \* **HAND BALL:** It's not just a field, it's their home. They are not only seven, they are million. They are not just crowded, they are family. It's not just 60 minutes, it's a lifetime. It's not just a passion, it's an emotion. It's not just a game, it's their life.
- \* **FOOT BALL :** Football is much more than just a game where you score a goal or win a match. It's a relationship where only love prevails. Love for the colours you wear, for that crest you touch right above your heart when you pray and for those boots you lace up in the hope that your legs pump harder than your heart does.

## THE SUPERSTARS OF OUR DEPARTMENT



### CENTRAL ZONE WINNERS

- \* Yogesh K U
- \* Goutham Choudarya D
- \* Samvath
- \* Sachin

### CENTRAL ZONE WINNERS

- \* Sadhan kumar K S
- \* Pruthvi K R
- \* Samvath
- \* Vinay
- \* Shrayank







### LAVANYA

Volley Ball - 3rd Place

Central Zone - 4th Place



### MEGHA A.V.

Best Outgoing Student

of Civil Engineering Department

## EVENTS



### Wall Building



### Cooking without fire



### Model Mania



### Throwball





# DEPARTMENT PHOTOS



**Basic Materials Testing Laboratory**



**Fluid Mechanics Laboratory**



**Geotechnical Engineering Laboratory**



**Concrete & Highway Laboratory**

# Civil Engineering

*A - Section*  
2015 - 2019



National Education Society (R)

**JAWAHARLAL NEHRU**  
**NATIONAL COLLEGE OF ENGINEERING, SHIMOGA**



# Civil Engineering

*B - Section*  
*2015 - 2019*



National Education Society (R)

**JAWAHARLAL NEHRU**  
**NATIONAL COLLEGE OF ENGINEERING, SHIMOGA**

**Credits**  
**Mohammed Ibrahim S.**





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*“Hard work performed  
in a disciplined manner  
will in most cases keep  
the worker fit and  
also prolong his life.”*

**SIR M.V.**



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