



Amar Sewa Mandal's
GOVINDRAO WANJARI COLLEGE OF ENGINEERING & TECHNOLOGY
148/149, Salai Godhani, Near Chikna Village, Hudkeshwar Road, Nagpur - 441204
Ph - 7823850876 / 9307464978



NAAC ACCREDITED
AN ISO 9001-2015 & ISO 14001-2015 CERTIFIED INSTITUTE

Email - gwcet@rediffmail.com Website: www.gwcet.ac.in

President	Secretary	Treasurer	Principal
Dr. (Smt.) Suhasini Wanjari	Adv. Abhijit G. Wanjari	Dr. Smeeta Wanjari	Dr. Salim Chavan

To,
The Principal,
GWCET, Nagpur

Subject:- Recommendation for Curriculum Enhancement.

Respected Sir,

The details of the feedback obtained from various stakeholders' who analyzed the feedbacks considering the curriculum and ambience at Govindrao Wanjari College of Engineering & Technology, Nagpur.

After careful consideration of feedback received we are pleased to present the considerations on your part for enhancing the activities and for employment of students.

1. Integration of Entrepreneurship and Start up's among the students

Entrepreneurship awareness and integration nurtures the students and creates the opportunities and encourage them to become proactive and explore real-world problems. We need to maintain the close bonding among students and institute through such integrating activities with small as well as large scale industries.

2. Inculcating the Start Up thinking among the students

Through Institute Innovation Council (IIC), we required to collect the innovative ideas by the students as a stakeholder and motivate them for establishment of Start Up's and provide the platform for the same.

3. Membership for higher studies and software skills

To motivate the students to pursue higher studies for research and upgrade their skills in order to become employable in the era of industry 4.0.

4. Skill enhancement and employability

In order to well prepare the students for jobs, we propose to introduce new electives prescribed in the syllabus for enhancing new domain and value addition for employability.


PRINCIPAL
Govindrao Wanjari College
of Engineering & Technology
Salai Godhani, Hudkeshwar Road,
Nagpur-441204



In view of this input, emerging areas within engineering and management discipline are as follows:

- Biomedical Engineering
- Cyber Security & Artificial Intelligence
- Machine Learning & Data Science
- Statistical Process Control
- Additive manufacturing
- Software Testing & Quality Assurance
- Entrepreneurship Development & Startups

We firmly believe that the above mentioned suggestions and its implementation will definitely enhance the learning experience, practical exposure as well as increase the demand of job market in industry 4.0.

We expect that the suggestions of our feedback analysis of various stakeholders will benefit the entire student's community.

With warm Regards,



IQAC Co-ordinator
GWCET, Nagpur



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Dr. Smeeta Wanjarri

Dr. Salim Chavan

Action Taken Report

STUDENTS



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Secretary
Adv. Abhijit G. Wanjari

Treasurer
Dr. Sneeta Wanjari


Principal
Dr. Salim Chavan

To,
The Principal,
GWCET, Nagpur

Subject: Consolidation of feedback on Curriculum and ambience of session 2023-24 from students of all departments including B. Tech. All Branches with First year and MBA and suggestions.

Stakeholder:	Students
No. of Responses	1051
Suggestions	Action Taken
Students needs updation in curriculum. One practical should not contain two subjects.	Query has been sent to university.
Students need knowledge beyond syllabus	Value added programs have been conducted by various departments every year apart from the curriculum.
Students are willing to update knowledge through self-learning	Certification programs like NPTEL / SWAYAM / Online platforms have been enrolled based on their interest.
Students are interested in industrial visits and internships.	Arranged industrial visit and internship in various industries on their relevant discipline.

Sincerely,


IQAC Co-ordinator
GWCET, Nagpur


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Dr. Salim Chavan

Action Taken Report

FACULTY



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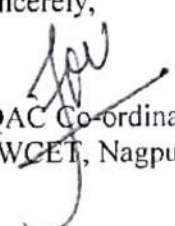
Principal
Dr. Salim Chavan

To,
The Principal,
GWCET, Nagpur

Subject: Consolidation of feedback on Curriculum and ambience of session 2023-24 from faculties of all departments including B. Tech. All Branches with First year and MBA and suggestions.

Stakeholder:	Faculties
No. of Responses	83
Suggestions	Action Taken
Course Objectives & Course Outcomes of each subjects should be mentioned in the syllabus and should be relevant to the content of the syllabus.	Query has been sent to university.
Needed Continuous enhancement to update knowledge through self-learning process.	Faculties are encouraged to attend and complete the certification programs like NPTEL / SWAYAM / MOOCs in Online Platform based on their respective interest area.
To enhance knowledge in latest technologies.	ATAL FDP, STTP as well as AICTE & ISTE approved STTPs and Workshops for faculties have been regularly conducted in the college by Institute Innovation Cell, GWCET. The college Also provides fund of 50% registration fees or Rs. 2000/- whichever is less for attending FDP, STTP, STC, Workshops etc.
Faculty members are interested to present the papers in conference as well as publish the papers in Journals to improve the research interest.	Faculty members are motivated for research and innovation by providing fund of 50% registration fees or Rs.5000/- whichever is less for Paper publication in SCOPUS, SCI indexed Journals as well as for patent publication.

Sincerely,


IQAC Co-ordinator
GWCET, Nagpur


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Principal

Dr. Salim Chavan

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ALUMNI



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Treasurer
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Principal
Dr. Salim Chavan

To,
The Principal,
GWCET, Nagpur

Subject: Consolidation of feedback on Curriculum and ambience of session 2023-24 from Alumni of all departments including B. Tech. all Branches and MBA and suggestions.

Stakeholder:	Alumni
No. of Responses	35
Suggestions	Action Taken
Introduction of courses on latest technological developments.	Value added courses related to technological advancements have been introduced in respective fields.
Emphasize application-oriented teaching learning process	Practical teaching learning application like case studies and industrial visit has been done.
To encourage students for start-ups and entrepreneurship	Career counseling and placement cell have organized start up and entrepreneurship awareness programs and activities to encourage students.
Skill based projects to make students industry ready	Hand on workshops, Seminars and Industrial training have been conducted for development of students. Students are preparing the live projects by interacting with industry.
Better placement of students to increase the scope of employability	MOU's have been signed with various companies for better employability.

Sincerely,


IQAC Co-ordinator
GWCET, Nagpur


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Action Taken Report

EMPLOYER





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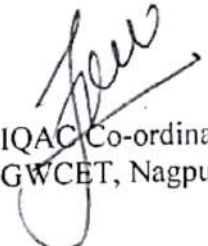
Principal
Dr. Salim Chavan

To,
The Principal,
GWCET, Nagpur

Subject: Consolidation of feedback on Curriculum and ambience of session 2023-24 from Employer of various Companies and their suggestions.

Stakeholder:	Employers
No. of Responses	18
Suggestions	Action Taken
Encourage the students and provide knowledge to become entrepreneurs	Various expert talks and seminars on entrepreneurship awareness have been organized by Career Counselling and Placement cell as well as by the departments.
To Introduce courses on latest technological developments	Technological advancements related Value Added / Add On / Certification courses have been introduced and conducted every year.
More exposure required in skill-based projects	Hands on workshops, Seminars and Industrial training have been conducted for the development of students. Industry-institute collaboration should taken place in order to prepare the live projects.

Sincerely,


IQAC Co-ordinator
GWCET, Nagpur


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Dr. Salim Chavan

ANNEXURE



NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
SHWETA KAMLESH BAMHNOTE
 for successfully completing the course
Social Networks

with a consolidated score of **53** %

Online Assignments	21.78/25	Proctored Exam	31.5/75
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Total number of candidates certified in this course: **2383**

Devendra Jalihal
Prof. Devendra Jalihal
 Chairperson,
 Centre for Outreach and Digital Education, IITM

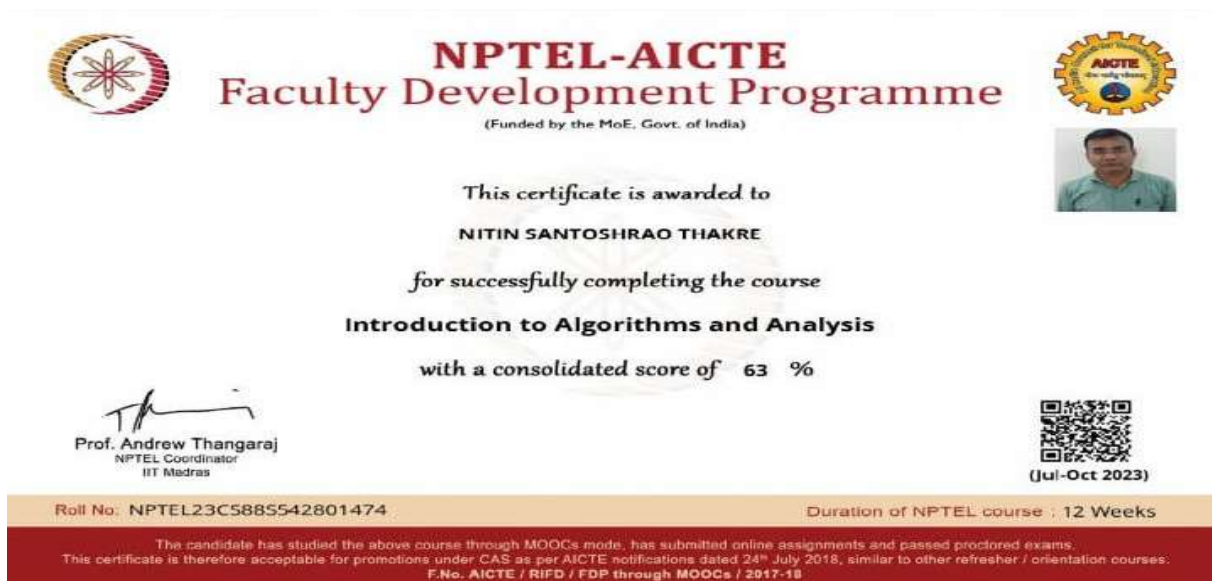
Jan-Apr 2024
 (12 week course)

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
 NPTEL, Coordinator
 IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL24CS56S1262900637 To verify the certificate  No. of credits recommended: 3 or 4



NPTEL-AICTE
Faculty Development Programme
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
NITIN SANTOSHRAO THAKRE
 for successfully completing the course
Introduction to Algorithms and Analysis

with a consolidated score of **63** %

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras

(Jul-Oct 2023)

Roll No: NPTEL23CS88S542801474 Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
 F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

VIVEKANAND PANDURANG THAKARE

for successfully completing the course

Digital Image Processing



with a consolidated score of **75** %

Online Assignments	19.66/25	Proctored Exam	55/75
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Total number of candidates certified in this course: **2293**

Jul-Oct 2023

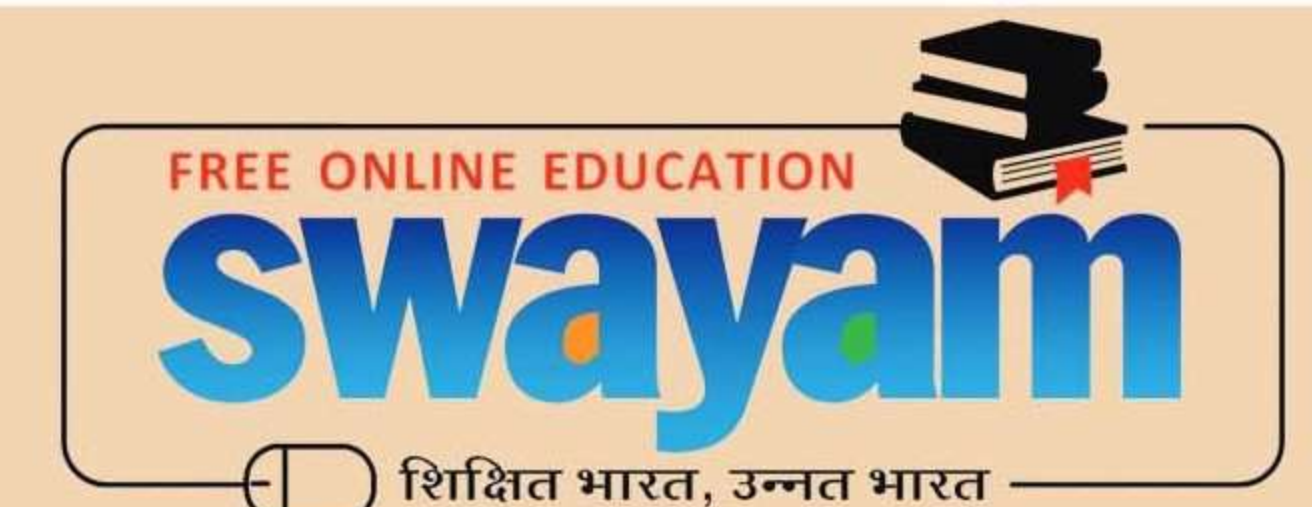
(12 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23EE118S542800581

To verify the certificate



No. of credits recommended: 3 or 4



Date:06/10/2023

Report Industrial Visit To "KP Solution INDIA PVT. LTD"

Department of Computer Science & Engineering recently organized one day industrial visit to "KP Solution INDIA PVT. LTD." a prominent software-based company, was organized to provide participants with a comprehensive understanding of the software development industry and its operational processes. The visit took place on 04/03/2024 (Monday) for 2nd Year & 3rd Year Students.

K.P. Solutions India Pvt. Ltd. is a leading software company specializing in software development. Established in 2000, the company has grown to become a key player in the software industry, providing innovative solutions to clients worldwide. It Specialize mainly in the field of Java Technologies, Angular, Machine Learning Developer in Java, Salesforce Development, Digital Marketing, Full Stack MEAN & MERN Developer, Android / OTT platform Developer, Data Analyst / Data Scientist. The company work on projects based on security, Medic- Shop etc, Eshop etc. The primary aim of the industrial visit is to expose students to a practical working environment. It offers students a valuable opportunity to gain comprehensive awareness of industrial practices and stay informed about new technologies.

Objectives of the Visit

The primary objectives of the visit were to:

- Gain insights into the software development lifecycle.
- Understand the various departments and their roles within a software company.
- Learn about the latest technologies and tools used in the industry.
- Explore career opportunities in the software sector.

The 75 CSE students were present during the visit along with Prof. Manoj. K. Vairalkar, Prof. Aditi Sawarkar, Prof. Tejaswini Mankar. The industrial visit was conducted under the guidance of our management Adv. Abhijeet Wanjari, Secretary, Amar Sewa Mandal and Dr. Salim A. Chavan, Principal GWCET.

Photographs:






Nagpur, Maharashtra, India
24HM+6P3, Maharashtra 441204, India
Lat 21.029738°
Long 79.133156°
04/03/24 01:34 PM GMT +05:30



Nagpur, Maharashtra, India
24HM+6P3, Maharashtra 441204, India
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Long 79.133156°
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Nagpur, Maharashtra, India
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Lat 21.029738°
Long 79.133156°
04/03/24 02:22 PM GMT +05:30


Prof. V.P. Thakare
HOD, CSE
H.O.D.

Computer Science & Egg. Dept.
G.W.C.E.T, Nagpur.




Dr. Salim Chavan
Principal, GWCET

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Date: -12/08/2023

Value Added Course on “Entrepreneurship Awareness Program”

Name of Activity Organized	Value Added course
Title Of activity	Entrepreneurship Awareness Program
Organized By	CSE Department in Association With IQAC
Activity Incharge	Prof. A. S. Sawarkar
Date of Commencement	07-08-2023
Date of Completion	12-08-2023
Place of activity	Seminar Hall (2 nd Floor)
Participated By	4 th Year Students of CSE Department.
No. Of Participants involved	57
Expert	1) Dr. Salim A. Chavan, Principal, GWCE, Nagpur 2) Dr. Hemant Bhagat Patil, IIC Incharge & Associate Professor in Mechanical Department, GWCE, Nagpur 3) Dr. Manoj Motghare, HOD First Year Department, GWCE, Nagpur 4) Prof. Pravin Wat, Assistant Professor, MBA Department, GWCE, Nagpur
Program Summary	Dr. Salim A. Chavan, Principal, GWCE said in his key note that everyone wants to fulfill their dreams and to fulfill all these dreams it is very important to become an entrepreneur. By working or doing job, we can only fulfill our basic needs but unable to fulfill the dreams. In order to nurture our family and fulfill the dreams, it is must to become an entrepreneur. Dr. Hemant Bhagat Patil addressed about innovation and product choice with real life examples. Prof. Manoj Motghare in his session told about Start Up India, Incubation and Project Feasibility. Prof. Praveen Wat in his session talked about the process of starting micro, small, medium enterprises and business opportunities Prof. V.P. Thakare gave vote of thanks.
Objectives	The main objective of this Entrepreneurship Awareness Program was to create awareness among the students about various aspects of entrepreneurship.
Outcome of the Activity	At the end of the programmed, students expressed interest and intention to explore entrepreneurship as a career. Further, information related to entrepreneurship were sought by the students. More experiential learning related to entrepreneurship education were expressed by the students.

Glimpses of Entrepreneurship Awareness Program



Aselols
Activity Incharge
Prof. Aditi Sawarkar

[Signature]
Prof. V.P. Thakare
HOD, CSE
H.O.D.
Computer Science & Engg. Dept.
G.W.C.E.T., Nagpur.

Completion of Internship

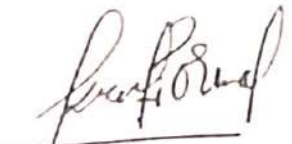


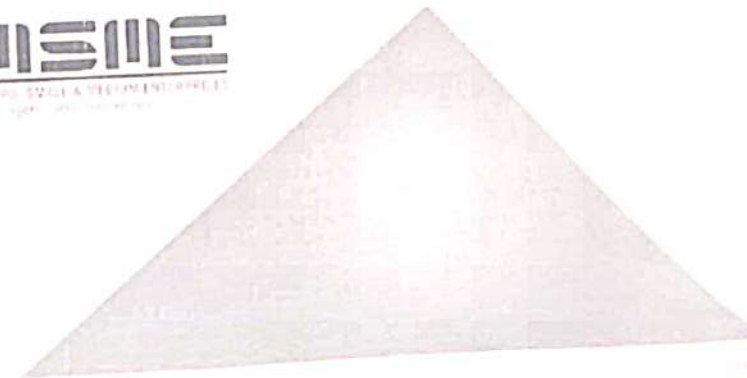
SYSTEM TRON
CID :ST/INP/1249

This Certificate is Awarded to

DIKSHA CHAMBHARU TEMBHARE

has successfully completed the 1 month Internship in WEB
DEVELOPMENT Internship at SystemTron from 30-Oct 2023
to 26-NOV 2023.


Co-Founder
System Tron



Supported by
India Edu Program
Google for Developers



**AICTE ATAL - EduSkills Faculty Development Program (FDP)
on Google AI-ML**

Certificate of Completion

Presented to

Nitin Thakre

of

Govindrao Wanjari College of Engineering & Technology

has participated and completed successfully **6 Days AICTE Training & Learning (ATAL) Academy - EduSkills
Faculty Development Program (FDP) on "Google AI-ML"**
hosted by Govindrao Wanjari College of Engineering & Technology, Nagpur (M.S.)
from ~~22nd to~~ **27th April 2024.**

Karthik Padmanabhan
Developer Ecosystem Lead
MENA & India, Google

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills

Dr. Ramesh Unnikrishnan
Adviser, All India Council for Technical Education (AICTE)
Ministry of Education, Government of India

C. No : 07052006220409270424



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Dr Salim Chavan

POLICY FOR FINANCIAL SUPPORT TO TEACHING STAFFS TO ATTEND FDPs, RESEARCH WORKS, CONFERENCES, WORKSHOPS, SEMINARS, SYMPOSIA AND MEMBERSHIP FEES

Research and quality improvement in the teaching and learning process, we believe, contribute to classroom excellence. Substantial changes in educational structure have happened, making learning more accessible. Teachers must be more adaptable, versatile, and diverse as a result of these developments. Internal faculty members can improve their academic knowledge by using the platforms given by well designed Financial Support Policy.

POLICY STATEMENT

The goal is achieved by offering financial assistance to faculty and encouraging them to attend seminars, symposia, conferences, workshops, and training workshops. This would aid in sharing knowledge, fostering academic growth, increasing collaborations and networking. The outcomes of such interactions and interventions would improve teacher's professional and personal effectiveness, resulting in institutional, individual, and student academic achievements.

OBJECTIVES

Provide financial assistance to all teaching faculty for the following:

- 1) Attending or participating in seminars, symposia, conference workshops, refresher courses, Ph.D programme course works, book publishing, and training workshops.
- 2) Provide financial help to faculty members in the form of registration fee reimbursement and encourage their participation in various professional development through conferences/workshops.
- 3) Upgrade academic credentials of faculty.
- 4) To encourage faculty to become members of academic/professional bodies.




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INCENTIVE

- 1) For attending Symposia, Conferences, Workshops 50% of registration fees or Rs. 2000 whichever is minimum will be paid by college.
- 2) For attending Faculty Development Programme (FDP), Short Term Training Programme (STTP), Short Term Courses (STC) 50% of registration fees or Rs. 2000 whichever is minimum will be paid by college
- 3) If the faculty publishes the patents then 50% of registration fees or Rs. 5000 whichever is minimum will be paid by college.
- 4) If the faculty publishes the paper in Scopus, SCI Index journal then 50% of registration fees or Rs. 5000 whichever is minimum will be paid by college.
- 5) For some college useful projects 50% of the expenditure will be provided by college.
- 6) If student get prize in project competition then Rs. 500 will be given by college.




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The Following **Industry Application Based Interdisciplinary Projects** Done By The Final Year Students In Collaboration With Industry Bliinc Innovation Pvt. Ltd.

1. Department of Computer Science and Engineering

Title of Project: “Color and Shape Detection Using Image Processing for Robotics Arm”

This project done by the following students

1. Ms. Neha Dhabale, 2. Ms. Ishaka Wankhede, 3. Ms. Himanshi Ahuja, 4. Ms. Janhavi Wasade, 5. Ms. Oshin Dongre, 6. Ms. Damini Ambedare, 7. Mr. Rushisarang Sarate, 8. Ms. Khushboo Thalal

2. Department of Information Technology

Title of Project: “Developing Mobile Application in Program & Control Robot”

This project done by the following students

1. Mr. Tanmay Vairagade, 2. Mr. Mahesh Shewale, 3. Mr. Vishal Raut, 4. Mr. Pranaysingh Shengar, 5. Ms. Shivani Madakwar

3. Department of Electrical Engineering

Title of Project: “Robotic Operation Sequencer Application”

This project done by the following students

1. Ms. Sushmita Kukde, 2. Mr. Dhirajkumar Samrit, 3. Mr. Pranjal Bagde, 4. Mr. Ankesh Mahaka, 5. Mr. Ankush Ghormade

4. Department of Electronics and Telecommunication Engineering

Title of Project: “Supervising and Controlling Robotic Arms with IOT Integration”

This project done by the following students

1. Ms. Sneha Gatilewar, 2. Ms. Disha Akotkar, 3. Ms. Sonal Gajbhiye, 4. Ms. Ashwini Ninave, 5. Mr. Nishant Gode


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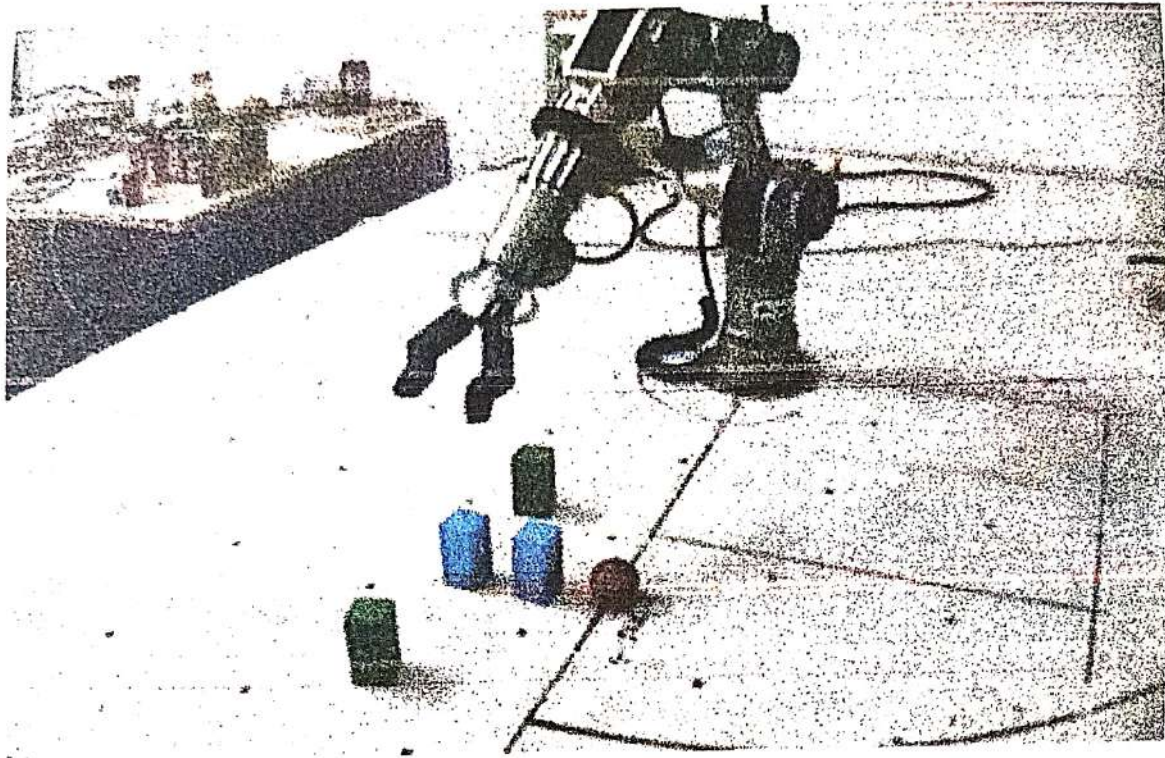


Fig. 1: Example of Robotic arm working model

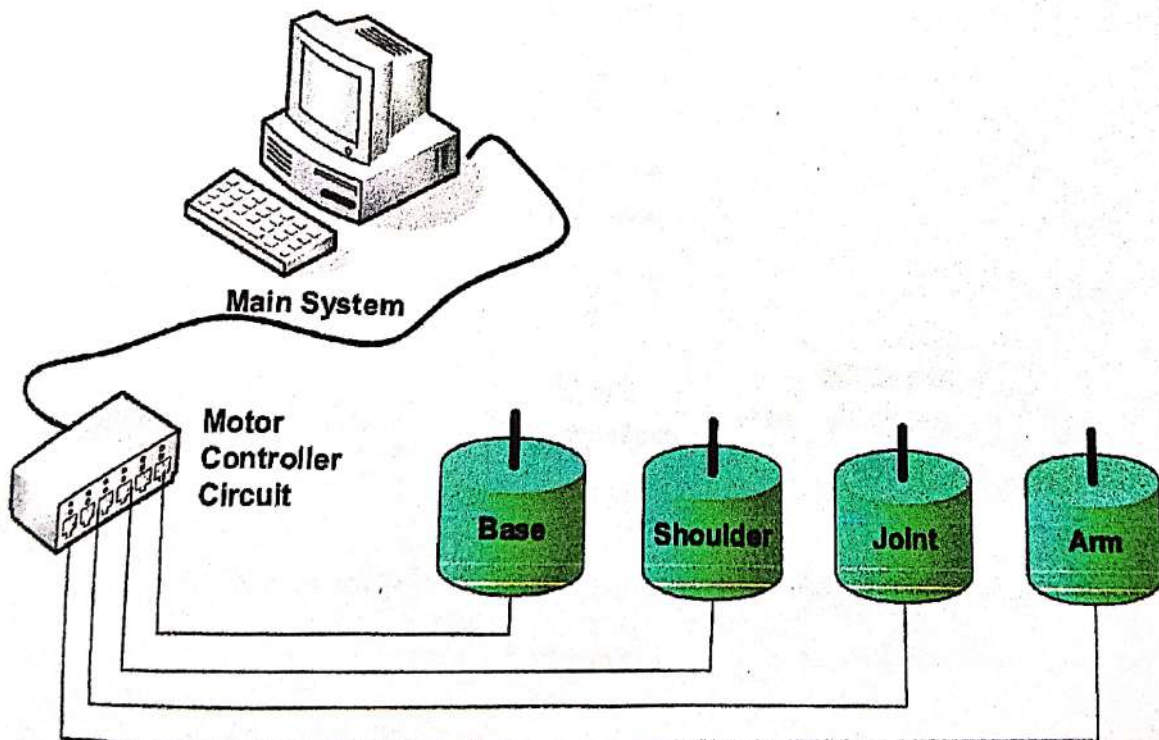


Fig. 2: Proposed system hardware working block diagram

[Signature]
PRINCIPAL
Govindrao Wanjari College
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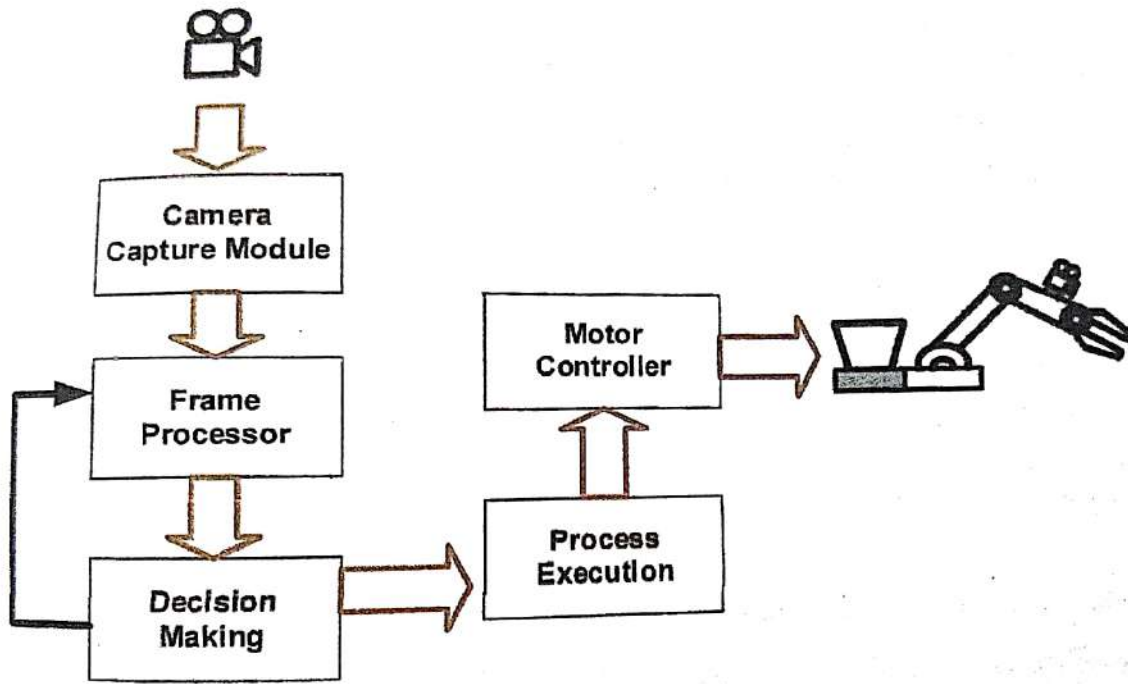


Fig. 3: Execution, processing flow of proposed system and implementation process

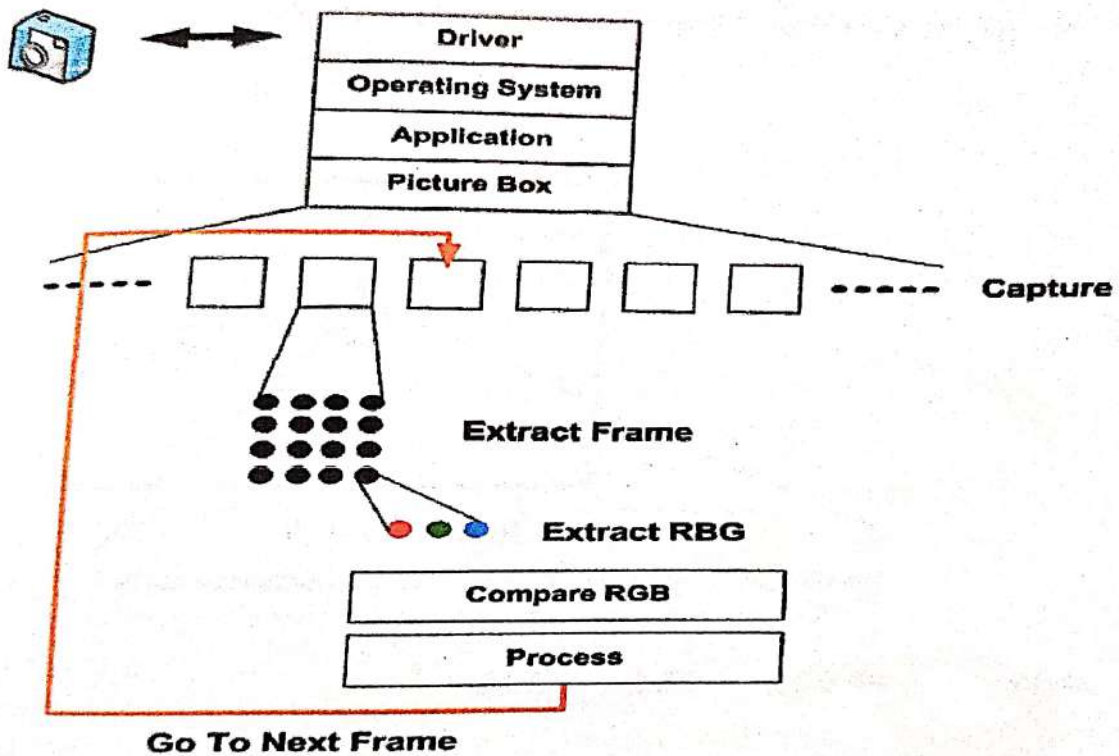



Fig. 4: Image processing algorithm flow


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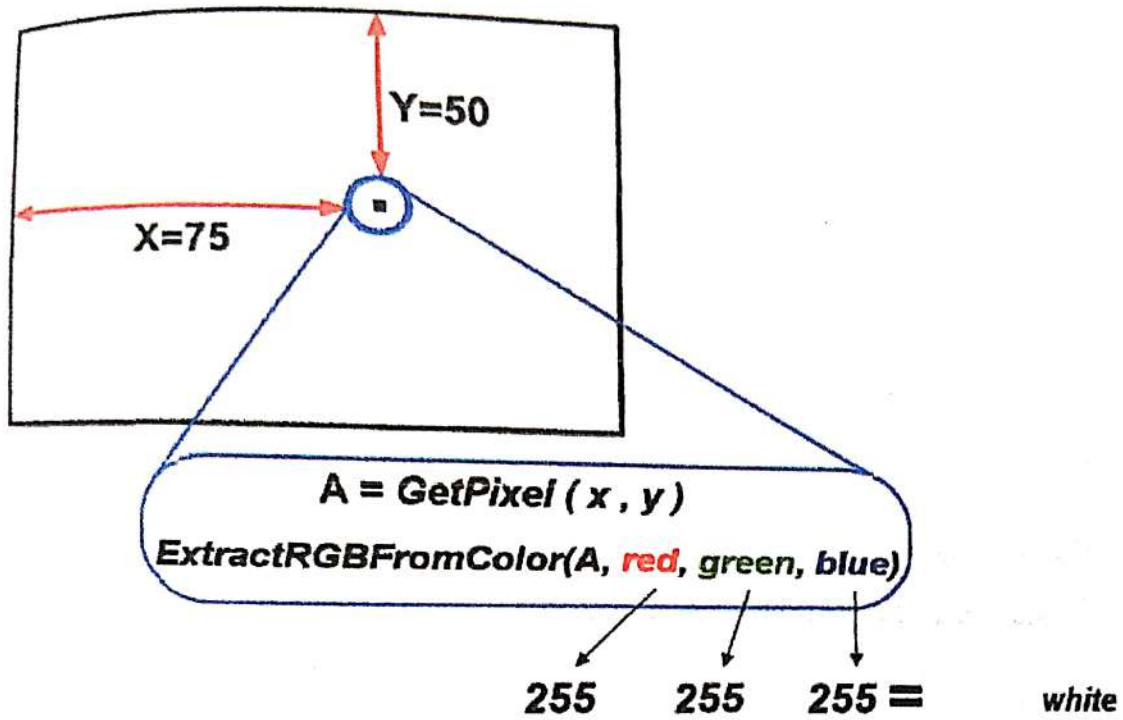


Fig. 5: Pixel colour extraction method

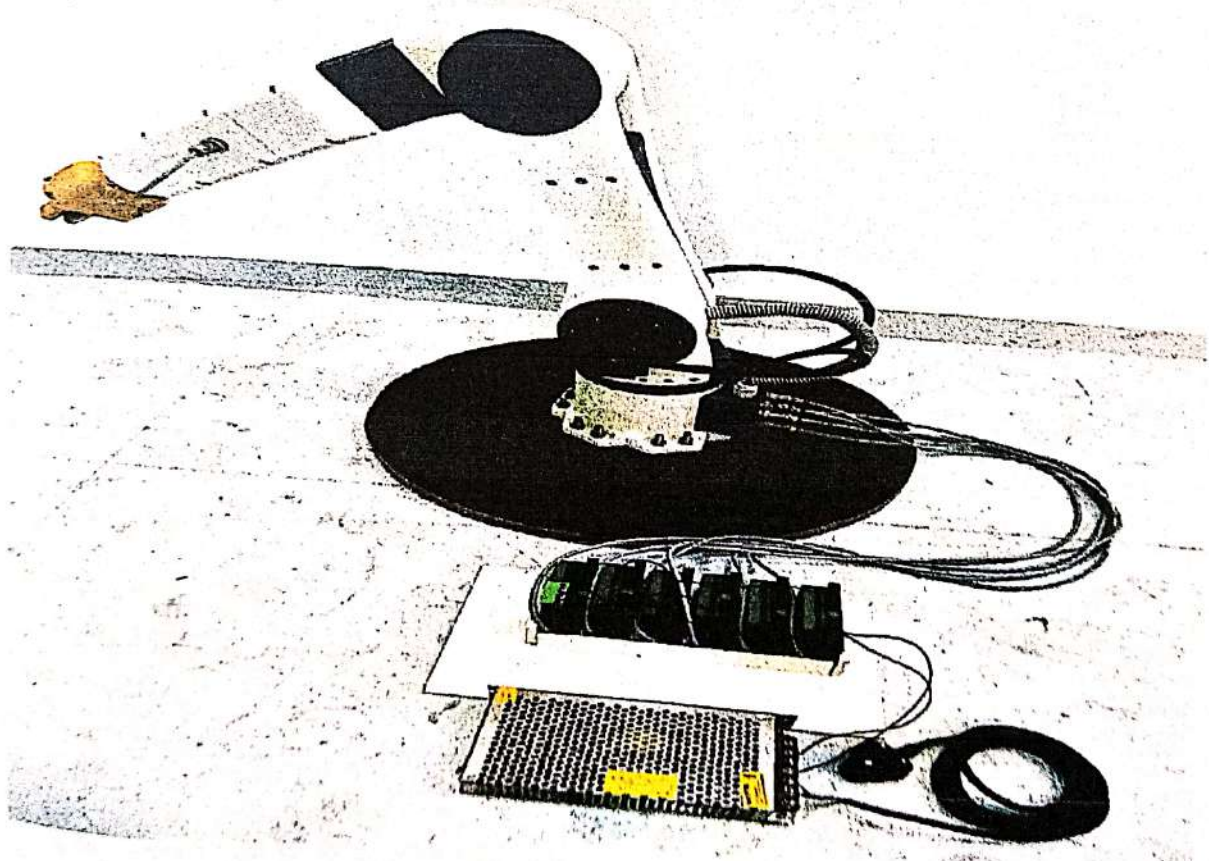
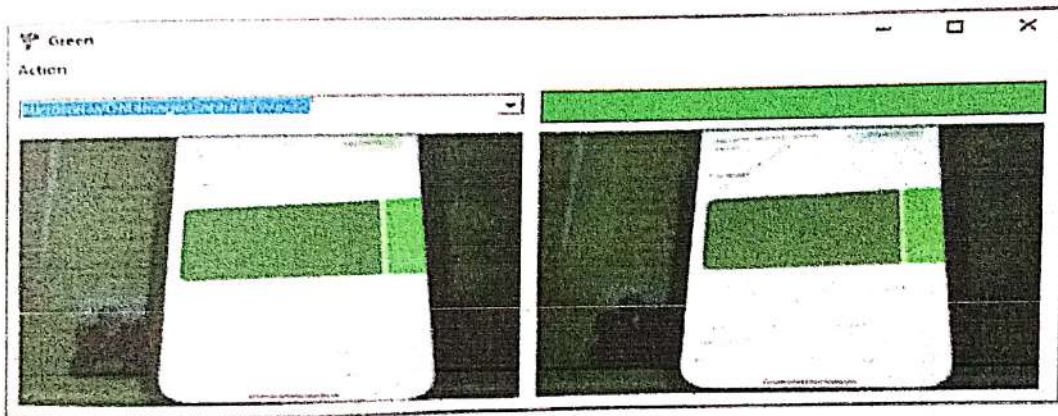


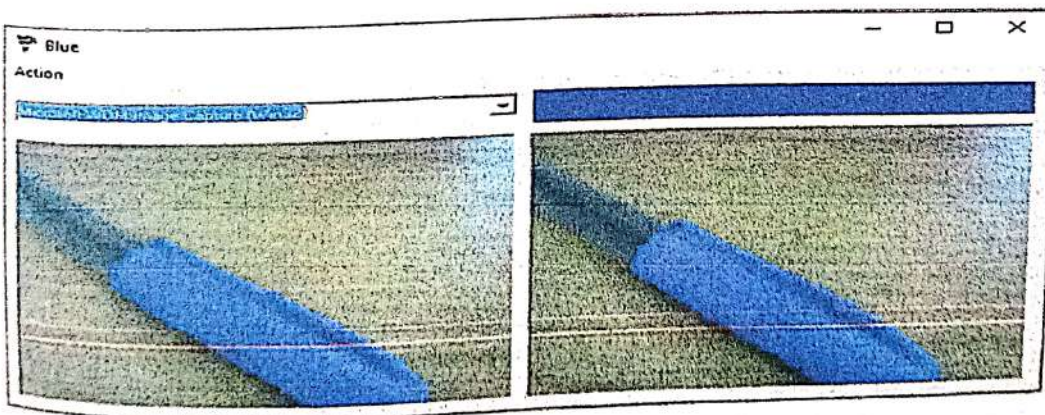
Fig. 6: Proposed system hardware with Control and Power Unit



(A)



(B)



(C)

D.

Fig. 7 (A), (B) & (C): Proposed system software color detection module


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