<u>OFFICIAL TRANSCRIPTS OF MS. KHUHSBOO SUCHIT MUNDADA</u>

Dear Sir/Madam,

This is to certify that Ms. Khushboo Suchit Mundada was a bona-fide student of Vishwakarma Institute of Technology, an autonomous institute affiliated to Savitribai Phule Pune University (formerly known as the University of Poona/University of Pune), India from July 2019 onwards. She joined the college in the year 2019 for the regular, four-year undergraduate course in Computer Engineering. She has successfully completed this four years Course in the Autonomous syllabus, examination, and evaluation pattern in Computer Engineering at Vishwakarma Institute of Technology in May 2023.The degree (Bachelor of Technology) will be issued by Savitribai Phule Pune University.

Ms. Khushboo Suchit Mundada is applying for her further studies at your esteemed Institute. During the years in this institute she has proved to be sincere and hardworking student. She bears a good moral character and fine conduct. I assure you that she will be an asset to your institution.

To facilitate the review of her application, we enclose the following

1. Salient features of
    a) Savitribai Phule Pune University
    b) Vishwakarma Institute of Technology, Pune
    c) Department of Computer Engineering
2. Teaching & Examination scheme under the autonomous format.
3. Certified grade sheets of Ms. Khushboo Suchit Mundada.

Registrar,
Vishwakarma Institute of Technology
Pune – 411037, India.

SEAL

SAVITRIBAI PHULE PUNE UNIVERSITY

Savitribai Phule Pune University is a university located in the western India, in the city of Pune. It was founded in 1948 and is one of the India's premier universities. **The university has been awarded "A+" rating, the highest rating, by the National Assessment and Accreditation council (NAAC) for its overall performance.**

The campus of the university is spread over an area of 411 acres. It houses 46 academic departments which provide a wide array of academic programs in the fields of Arts, Commerce, Science, Engineering & Technology, Management, Law, Education, Social Science etc.

The university has 612 affiliated colleges, offering undergraduate, graduate and doctoral programs. **The medium of instruction is English**.

There are many national level research centers established at the university such as, Institute of Bioinformatics & Biotechnology (IBB), Indian Space Research Organization Cell (ISRO), Inter University Center for Astronomy & Astrophysics (IUCAA),Center for Modeling and Simulation, Center for information & Network Security (CINS), Center for Network Computing (CNC), Center for Sensor Studies (CSS), National Center for Free Radical Research (NCFRR), Science & Technology Park, Educational Multimedia Research Center (EMRC), Center for Development of advance Computing (CDAC), National Center for Cell Science (NCIS), National Center for Radio Astronomy (NCRA).

Savitribai Phule Pune University attracts the largest number of foreign students in comparison to all other Indian Universities. Currently there are around 75,000 students from over 102 countries studying at the university and its affiliated colleges.

Savitribai Phule Pune University, has acquired a reputation of being the leading Centre of higher education and research in India.

VISHWAKARMA INSTITUTE OF TECHNOLOGY

Vishwakarma Institute of Technology is a highly commendable renowned private institute, which occupies a pride place amongst the premier Technical Institutes in the Western region of India. Established in 1984, financed and run by The Bansilal Ramnath Agarwal Charitable Trust, it is affiliated to Savitribai Phule Pune University. It is recognized by the Government of Maharashtra, and is approved by A.I.C.T.E. (All India Council for Technical Education).**The Institute has obtained National Assessment and Accreditation council (NAAC) 'A++' Grade from November 2018, with a CGPA 3.53 on a scale of 4.**

The Institute has 9 undergraduate programs and 8 post-graduate programs, Ph.D.   A large number of our students have been admitted to various international universities in countries like USA, U.K., Germany, France, etc.

The college is spread over 17 acres of land and comprises of academic building areas, playgrounds and hostel on a plot admeasuring 6.5 acres with built up area of 32045 square meters. It has at present over 4500 students, 218 qualified faculty members, more than 70 laboratories having instruments worth Rs.101.7 million.

Vishwakarma Institute of Technology offers the following undergraduate and post graduate programs (***The medium of instruction is English)***:

Under Graduate Programs:

Degree offered: Bachelor of Technology (B. Tech.)

Sr. No	Programs
1	Industrial Engineering
2	Electronics Engineering
3	Mechanical Engineering
4	Computer Engineering
5	Instrumentation and Control Engineering
6	Chemical Engineering
7	Production Engineering
8	Electronics & Telecommunications Engineering
9	Information Technology
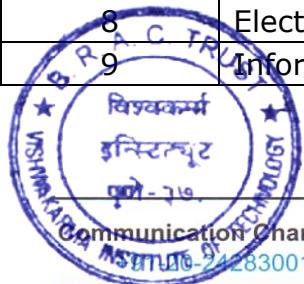
Post graduate Programs:

Degree offered: Master of Technology (M. Tech.)

Sr. No	Programs
1	Mechanical Engineering (Heat Power Engineering)
2	Mechanical Engineering (Design Engineering)
3	Computer Science & Engineering (Information Technology)
4	Industrial Engineering
5	Instrumentation & Control Engineering (Process Instrumentation)
6	Chemical Engineering
7	Electronics & Telecommunications Engineering
8	Master of Computer Applications (MCA)

Research Programs:

Degree offered: (Ph.D.)

Sr. No	Programs
1	Mechanical Engineering
2	Chemical Engineering
3	Industrial Engineering
4	Instrumentation and Control Engineering
5	Electronics & Telecommunications Engineering
6	Computer Engineering

Vishwakarma Institute of Technology is ISO 9001-2008 certified Institute since April 2007.

Admission to the undergraduate courses is based on the state level and national level competitive test conducted by the respective governments. Admissions to Postgraduate programs are based on national competitive test i.e. Graduate Aptitude Test in Engineering (GATE), conducted by Indian Institutes of Technology. The competition is extremely keen and admission is restricted to less than the top 1.0% of candidates appearing for the said examination.

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Vision & Mission

Vision :

"To be globally acclaimed Institute in Technical Education and Research for holistic Socio-economic development".

Mission :

- To impart knowledge & skill based Education in Collaboration with Industry, Academia & Research Organization.
- To strengthen global collaboration for Students, Faculty Exchange and joint research.
- To prepare competent Engineers with the spirit of Entrepreneurship.

    To Inculcate and Strengthen Research Aptitude amongst the Students and Faculty

IMPORTANT FEATURES OF VISHWAKARMA INSTITUTE OF TECHNOLOGY

1. Vishwakarma Institute of Technology is a premier engineering institute from India established in Pune in the year 1984.
2. The institute is **permanently affiliated to Savitribai Phule Pune University** which is a reputed university and ranks amongst top universities in the country. **The university is NAAC (National Assessment and Accreditation Council) accredited with "A+" grade.**
3. The institute was conferred **autonomous status** by University Grants Commission (UGC) since July 2008.
4. The institute is **NAAC (National Assessment and Accreditation Council) accredited with "A++" grade.**
5. The institute is **ISO 9001:2008 certified** since 2007.

6. Undergraduate programs of the institute are **NBA (National Board of Accreditation) accredited.**
7. The institute has received Indian Merchants' Chambers **Ramakrishna Bajaj National Quality Award 2011 Cycle.**
8. The institute is amongst the **top five preferred institutes** in the state of Maharashtra, India and amongst top ten preferred institutes in the western region of the country.
9. The Institute has university approved research centers in six departments namely Chemical Engineering, Computer Engineering, Electronics Engineering, Industrial Engineering, Instrumentation & Control Engineering and Mechanical Engineering.
10. The institute has signed MOUs with many reputed universities like Penn State University (U.S.A), Marist College (U.S.A.), Binghamton University(U.S.A.), Cork Institute of Technology (Ireland), 17 Universities from State of Ontario in Canada, Group des Ecoles des Mines (France), Asian Institute of Technology,(Bangkok), Hanyang University, Seoul(South Korea), etc. for student exchange, faculty exchange & project exchange activities.
11. Under the autonomy, the institute has adopted credit based system, grading policy and continuous assessment of the student through continuous assessment, mid-semester examination and an end semester examination
12. Apart from the core courses, the institute offers courses in liberal arts, music, dance, sports, yoga & foreign language etc. to engineering students under General Proficiency courses. This motivates students to participate and succeed in various prestigious cultural, social, sports, and co-curricular activities.
13. The institute has formulated various students' chapters like ISA, IEEE, ACM and SAE.
14. The institute has signed many MOUs with many industries like TATA Motors, Emerson, IBM and Accenture for student internship, research & consultancy work and participation of industries in the teaching-learning process.
15. The institute holds excellent placement records in many reputed multinationals.

DEPARTMENT OF COMPUTER ENGINEERING

Ms. Khushboo Suchit Mundada has attended the regular B. Tech. course. The course consists of a total of eight semesters over a span of four years. The first year of B. Tech. is common to all branches. Courses taken by the student from F.Y. B. Tech to Final Year B. Tech are approved by concerned Board of Studies (B.O.S.).

Salient features of the B. Tech Computer Engineering course:

- **Core areas:**
Throughout their eight semesters of academic study, students, focus on a variety of core areas of Computer Engineering. These include building their Programming skills, understanding Networks, Operating System and other foundational areas in Computer Engineering. Apart from these core areas, students also learn advanced topics such as Signal Processing, Advanced Algorithms and so on. Vishwakarma Institute of Technology has been very successful in keeping abreast with new and emerging technologies and the same has been made available to the students.

- **Electives Areas:**
Apart from the core compulsory subjects which students learn in Computer Engineering, they also undergo some elective courses in their final year. This are selected from a range of subjects available. These courses aim at developing student's knowledge in their area of interest as they identify after three years of foundational study. These include Parallel Computing, Business intelligence, Randomized and Approximation Algorithms etc.
Students learn a variety of electives to develop their professional skills such as Advanced Java, technologies related to Microsoft.Net, Springs Framework, Struts Framework and so on.

- **Tie-ups with Industry/ Awards or Scholarships or sponsorship given by industry:**
Department of Computer Engineering, VIT has an internship program with Barclays in which students from 7th semester join Barclays as intern students and receive credits for the same. We also have active participation from various companies like Persistent Systems Limited, NVIDIA and several others who sponsor several major projects done by students as part of their engineering curriculum.

- **Research Support:**
Research activities, producing quality research papers, grants and patents on a regular basis have been one of the core focus of our department. We have been receiving a good research support from many of our tie-ups as well. One of them is NVIDIA. NVIDIA is world leader in GPU (Graphics Processing Units), processors, which can be used for parallel programming now. NVIDIA recognized VIT as CUDA Research Center (CRC) for GPU parallelization of fuzzy neural networks for year 2013-24. We are one of the 10 CRCs awarded by NVIDIA as per Fig.1. The details of the proposed work under CRC can be found on web page *https://research.nvidia.com/content/vit-pune-crc-summary*.

- **Any other useful points.:**
The department is well equipped with laboratories having Oracle and Matlab servers and over 400 nodes running on Windows XP, Windows 7 as well as Ubuntu.
During the last three semesters, the student works on a project geared to the needs of the industry and at the end of the last semester student is examined on the basis of his project report and viva voce.
Students are encouraged to work on innovative ideas and make use of IPR Cell (Intellectual Property Right) available in the institute.
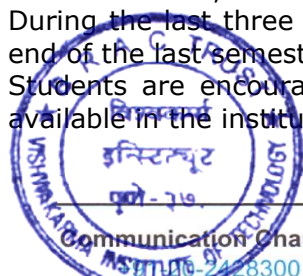
EXAMINATION AND GRADING SCHEME

Vishwakarma Institute of Technology is an Autonomous Institute affiliated to Savitribai Phule Pune University. The institute has adopted a credit based assessment system for the evaluation of academic performance of the student. Accordingly, Cumulative Grade Points Average (**CGPA**) on the scale of 10 is awarded.

The following are the details of the Examination Scheme prescribed for the degree course (Bachelor of Technology) in Computer Engineering by the Vishwakarma Institute of Technology, along with the performance of the following candidate in the examination

Name: Ms. Khushboo Suchit Mundada

Period of Study: August 2019 to May 2023.

The Bachelor's degree program in Computer Engineering is of four years duration and each academic year has two semesters.

1. The examination pattern consists of Continuous assessment, Mid semester Examination & End semester Examination.

2. Maximum Passing Grade points: 10   Minimum Passing Grade points: 4

3. The medium of instruction is English.

4. All subjects are compulsory, except those specified as electives. The student also chooses the mini project and major project.

5. Theory papers, Practical and Project examinations require a minimum of 40% marks for passing.

6. The Grading Scheme of Vishwakarma Institute of Technology is as follows:

GRADE POINTS: A+- (Excellent/Out Standing): 10   A - (Very Good): 9
                    B+-(Good): 8   B - (Fair): 7
                    C++- (Above Average): 6   C - (Average): 5
                    D- (Below Average): 4   F - (Fail): 0

ABBREVIATIONS:
I- (Absent for the Exam but not detained)   X-(Detained, Re-register for course)
P-(Passed-only for non-Credit and audit Course)   NP-(Not passed-only for non-Credit and audit Course)
CGPA-Cumulative Grade Points Average   SGPA-Semester Grade Points Average

बन्सीलाल रामनाथ अगरवाल चॅरिटेबल ट्रस्ट संचलित

विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी

(सावित्रीबाई फुले पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था)

६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे – ४११ ०३७.

Approved by A. I. C. T. E. New Delhi

Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Technology

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

666, Upper Indiranagar, Bibwewadi, Pune - 411 037.

Identification No. - PU/PN/Engg./061/(1984)

CERTIFIED GRADE SHEETS

Name: Ms. Khushboo Suchit Mundada

GR Number: 11910137

1st Academic Year (2019 to 2020)

Passing Month & Year: July 2020

Program: Bachelor of Technology in Computer Engineering

Semester I

Course Title	Hours Per Week	Credits	Grades
COMPUTER PROGRAMING	6	5	A+
CALCULUS	4	4	B+
LOGICAL REASONING	3	3	B+
ROBOT MECHANICS AND CONTROL	6	5	A+
ENGINEERING DESIGN AND INNOVATION - I	5	4	A+
GRAPHICS AND MECHANICAL WORKSHOP	2	1	B+
INDUCTION TRAINING	2	0	P
LIFE SKILLS	2	0	P
PERSONALITY DEVELOPMENT	1	1	B+

Semester II

Course Title	Hours Per Week	Credits	Grades
ADVANCE COMPUTER PROGRAMMING	6	5	A+
SOFTWARE DEVELOPMENT PROJECT	5	4	A
LINEAR ALGEBRA	4	4	A+
ENVIRONMENTAL SCIENCE	2	0	P
QUANTITATIVE APTITUDE	3	3	A
MECHATRONICS AND ROBOTICS	6	5	A+
ENGINEERING DESIGN AND INNOVATION - II	5	4	A+
GRAPHICS AND MECHATRONICS WORKSHOP	2	1	A+
PROFESSIONAL DEVELOPMENT	2	0	P
ETHICS FOR ENGINEERS	1	1	A+

First Semester Record			Second Semester Record			Cumulative Semester Record		
No of Credits to be Earned	Actual Credits Earned	SGPA	No of Credits to be Earned	Actual Credits Earned	SGPA	No of Credits to be Earned	Actual Credits Earned	CGPA
23	23	9.22	27	27	9.74	50	50	9.52

Registrar, Vishwakarma Institute of Technology.

Seal

बन्सीलाल रामनाथ अगरवाल चॅरिटेबल ट्रस्ट संचलित

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CERTIFIED GRADE SHEETS

Name: Ms. Khushboo Suchit Mundada

GR Number: 11910137

2nd Academic Year (2020 to 2021)

Passing Month & Year: June 2021

Program: Bachelor of Technology in Computer Engineering
Semester III

Course Title	Hours Per Week	Credits	Grade
SOFTWARE DEVELOPMENT PROJECT I	2	3	B+
ENGINEERING DESIGN AND INNOVATION III	2	4	B+
ENGINEERING DESIGN-I	1	1	A
SOFTWARE DESIGN-I	1	1	B+
DATA SCIENCE	6	5	B
APPLIED ELECTRONICS	6	5	A
MECHANICAL AND SYSTEM ENGINEERING	6	5	B+

Semester IV

Course Title	Hours Per Week	Credits	Grades
DATA STRUCTURES	6	5	A
COMPUTER ARCHITECTURE & OPERATING SYSTEMS	6	5	A+
DATA COMMUNICATION AND NETWORKS	6	5	A+
SOFTWARE DEVELOPMENT PROJECT-II	2	3	A+
ENGINEERING DESIGN AND INNOVATION-IV	2	4	A
OBJECT ORIENTED PROGRAMMING	6	5	A

Third Semester Record			Fourth Semester Record			Cumulative Semester Record		
No of Credits to be Earned	Actual Credits Earned	SGPA	No of Credits to be Earned	Actual Credits Earned	SGPA	No of Credits to be Earned	Actual Credits Earned	CGPA
24	24	8.04	27	27	9.48	101	101	9.16

Registrar, Vishwakarma Institute of Technology.   **Seal**

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CERTIFIED GRADE SHEETS

Name: Ms. Khushboo Suchit Mundada   3rd Academic Year (2021 to 2022)
GR Number: 11910137   Passing Month & Year: July 2022

Program: Bachelor of Technology in Computer Engineering

Semester V

Course Title	Hours Per Week	Credits	Grades
ARTIFICIAL INTELLIGENCE	6	5	A
COMPILER DESIGN	5	4	A
THEORY OF COMPUTATION	6	5	B+
SOFTWARE MODELING AND DESIGN	6	5	A
MACHINE LEARNING	6	5	A+
ENGINEERING DESIGN AND INNOVATION-V	0	4	A+

Semester VI

Course Title	Hours Per Week	Credits	Grades
SYSTEM SOFTWARE	6	5	B+
DESIGN AND ANALYSIS OF ALGORITHMS	6	5	A
WEB TECHNOLOGY	6	5	A+
DATABASE MANAGEMENT SYSTEMS	5	4	A+
ENGINEERING DESIGN AND INNOVATION-VI	0	4	A
MACHINE LEARNING PROJECT	6	5	A+

Fifth Semester Record			Sixth Semester Record			Cumulative Semester Record		
No of Credits to be Earned	Actual Credits Earned	SGPA	No of Credits to be Earned	Actual Credits Earned	SGPA	No of Credits to be Earned	Actual Credits Earned	CGPA
28	28	9.14	28	28	9.32	157	157	9.18

Registrar, Vishwakarma Institute of Technology,   Seal

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Identification No. - PU/PN/Engg./061/(1984)

CERTIFIED GRADE SHEETS

Name: Ms. Khushboo Suchit Mundada

GR Number: 11910137

4th Academic Year (2022 to 2023)

Passing Month & Year: May 2023

Program: Bachelor of Technology in Computer Engineering

Semester VII

Course Title	Hours Per Week	Credits	Grades
INDUSTRY INTERNSHIP	45	17	A+

Semester VIII

Course Title	Hours Per Week	Credits	Grades
INDUSTRY INTERNSHIP	45	16	A

Seventh Semester Record			Eighth Semester Record			Cumulative Semester Record		
No of Credits to be Earned	Actual Credits Earned	SGPA	No of Credits to be Earned	Actual Credits Earned	SGPA	No of Credits to be Earned	Actual Credits Earned	CGPA
17	17	10	16	16	9	190	190	9.24

Registrar, Vishwakarma Institute of Technology,   Seal

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