



## BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

FOUNDER CHANCELLOR  
**Dr. Patangrao Kadam**  
M.A., LL. B., Ph. D.

Accredited by NAAC With 'A' Grade  
Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur  
Near Chitranagari, Kolhapur - 416013 (MS)  
DTE INSTITUTE CODE : EN-6288  
Tel.No.: (0231) 2638893, 2638894, Fax : 2636050  
Web : <http://coekolhapur.bharatividyaapeeth.edu> E- mail : [coekolhapur@bharatividyaapeeth.edu](mailto:coekolhapur@bharatividyaapeeth.edu)

PRINCIPAL  
**Dr. Vijay Ghorpade**  
M.E., Ph. D. (Computer)

## NAAC SSR CYCLE- 2



Criterion 3	Research, Innovations and Extension
Key Indicator 3.5	Collaboration
3.5.1. Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years	

**Name of the MoU/linkage:** Pcube Technologies, Nagala Park, Kolhapur

**Name of actual activity:** Project Work-Musical Instrumentation Simulation Using Artificial Intelligence



**PCUBE**  
TECHNOLOGIES

Date:- 12/07/2021

Outward number:- 06/21-22

## MEMORANDUM OF UNDERSTANDING

In order to declare their joint intention to cooperate in some or all the fields of academics and industrial endeavor for their mutual benefit.

**Party 1: Pcube Technologies Kolhapur**


**Party 2: Department of Computer Science & Engineering, Bharati vidyapeeth's college of Engineering, Kolhapur.**

Agrees to explore opportunities for collaboration in the areas described here under:

1. Sponsorship of final year project : Musical Instrumentation Simulation using Artificial Intelligence.
2. Sharing the technology for academic purpose only.
3. Internship program for students as per requirements.
4. Any other academic activity with mutual consent.


Pcube Technologies and Department of Computer Science & Engineering Bharati Vidyapeeth's College of Engineering, Kolhapur agrees to share the information in strict confidence and will respect the intellectual property right of each other.

**Stamp and Sign**

  
**Prof. S. M. Mulla**  
**HOD- CSE Dept**  
Head,

Dept. of Computer Sc. & Engineering  
Bharati Vidyapeeth's  
College of Engineering Kolhapur

**Stamp and Sign**

  
**Dr. V. R. Ghorpade**  
**Principal**  
PRINCIPAL  
BHARATI VIDYAPEETH'S  
COLLEGE OF ENGINEERING  
KOLHAPUR

**Stamp and Sign**

  
**Manoj Patil**  
**Managing Director**  


C S NO 250 B/2 Near Panchratna Apartment, Nagala Park Kolhapur – 416003.

+91- 7507510444 || pcubetechmedia@gmail.com

www.pcubetechmedia.com



**PCUBE**  
TECHNOLOGIES

Outward number:- 05/21-22

Date:- 12/07/2021

To,  
Principal,

Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject :- Sponsorship and Internship for final year project of engineering.

Respected Sir,

We are pleased to inform you that our organization "Pcube Technologies, Kolhapur" has chosen following students for being sponsored and given Internship under our Student Development and Encouragement Program for completing their final year project.

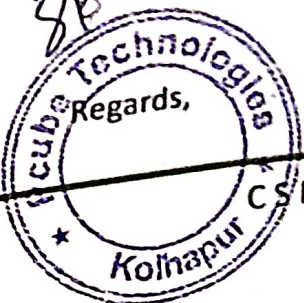
1. Miss. Priyanka Ramesh Ingavale (11)
2. Mr. Yash Ananda Shirke (12)
3. Mr. Aniket Prakash Kamble (13)
4. Miss. Pradnya Avinash Hirave (14)
5. Miss. Kiran Dinanath Sutar (15)

#### **Musical Instrumentation Simulation using Artificial Intelligence.**

A new approach to sound design & modeling of musical multiple instruments is presented. An intelligent audio is presented. An intelligent audio system based on logic technique, javascript technique, is used to analyst acoustic recording, extract multiple sound feature & to process them to generate parameters for sound synthesis, mimicking human audio experts. Multiple musical instruments piano, guitar & drum. Main goal of our project is to investigate and develop artificial intelligence base techniques to capture and exploit audio expertise in the design & high quality sound, our principle aim is to automate as for as possible, the complex and time-consuming task & sound design for multiple musical instruments, try exploiting the experience and knowledge of professional such as multiple musical instruments manufactures, audio engineers and musicians.

After completing the project we shall consider a demonstration of the project and if it fits to our organization's requirements we shall buy this project from students in the future. The expenses provided by us should be spent on the study materials, stationary and instruments required for establishing setup of the project.

Thanking You.



C/S NO 250 B/2 Near Panchratna Apartment, Nagala Park Kolhapur – 416003.  
+91- 7507510444 || pcubetechmedia@gmail.com  
www.pcubetechmedia.com