## Lokmanya Tilak Jankalyan Shikshan Sanstha's PRIYADARSHINI COLLEGE OF ENGINEERING

(Recognised by A.I.C.T.E., New Delhi \& Govt. of Maharashtra, Affiliated to R.T.M.Nagpur University) Near CRPF Campus, Hingna Road, Nagpur-440 019, Maharashtra (India)
Phone : 07104-236381, 237307, Fax : 07104-237681,
email : principal.pce.ngp@gmail.com, www.pcenagpur.edu.in
3.5.2 Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year 2018-19

| Sr. <br> No | Organisation with which MoU is signed | List the actual activities under each MOU year wise | Page No. |
| :---: | :---: | :---: | :---: |
| 1 | Dalvik Apps, Design \& Develop, Mumbai Based IT Company | Vocational Educational Training program on Drona Aviation | 76-88 |
| 2 | Maximum solutions ,Nagpur | Guest Lecture on PLC and SCADA | 89-96 |
| 3 | V.S.Informaticspvt Ltd main branch banglore/Nagpur branch Near T Point Hingana Road Nagpur | Seminar on start up projects under incubation center by VS Informatics by <br> Mr.SanddepSonaskar ,Director VS,InformaticsPvt Ltd on 13/07/2018 \& 2 day workshop on LED tube light fabrication | 97-103 |
| 4 | Shree Ashoka Solar \& Energy Pvt. Ltd, Nagpur | Training Project Demonstration of solar | 104-107 |
| 5 | Gentech Engineering Services,Nagpur | Introduction to Pelton Wheel | 108-109 |
| 6 | Agreen allied services pvt ltd | 2 | 110-111 |
| 7 | Wadhwani Foundation, Bangalore. | 1. Orientation Program for Entrepreneurship <br> DevelopmentTraining 2. Expert Lecture on Entrepreneurship Development <br> Basic Entrepreneurship development training program <br> Advance Entrepreneurship development training program | 112-122 |



Principal

# Supporting Data Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year Year 2018-19 

PRIYADARSHINI COLLEGE OF ENGG. NAGPUR CERTIFIED DOCUMENT


## Memorandum of Understanding (MOU)

## Dalvik dipps

Dalvik Apps<br>B-218,Regency Plaza IT Park, Near Waldhuni Bridge,

## Shantinagar, Kalyan West Pin:421003



Priyadarshini College of Engineering, Nagpur At/Post - Hingna Road, Priyadarshini, CRPF, Nagpur, Maharashtra 440019

## Legitimate from $9^{\text {th }}$ Aug 2018 to $9^{\text {th }}$ Aug 2019

## Memorandum of Understanding (MOU)

This Memorandum of Understanding ("MoU") entered into as of the Aug 9, 2018 between Dalvik Apps a company organized and existing under the laws of India and having a local business address at B-218,Regency Plaza IT Park, Near Waldhuni Bridge, Shantinagar, Kalyan West Pin:421003 and Priyadarshini College of Engineering, Nagpur an institution and existing under the laws of India, and having a college at At/Post - Hingna Road, Priyadarshini Campus, CRPF Gate, Nagpur, Maharashtra 440019

1. Recognizing the need to cultivate an industry and institution interaction, value addition and perpetual need to keep abreast with latest development in the field of Information Technologies the parties have agreed to enter into a MOU. The purpose of this MOU is to memorialize recent conversations and basic understanding to the parties.
2. Dalvik Apps shall keep on updating the Priyadarshini College of Engineering students on the latest happenings on the Information Technology sector which include
> The Technological Advancement
> Upcoming Technology \& Job availability for the same
> Regular updates related to internship/walk-in interviews
3. Dalvik Apps shall identify and help student to implement industry level projects. The project will involve latest technologies in various software technologies. The cost of the project shall be borne by students.
4. Dalvik Apps shall arrange for the practical workshop on various hardware and software at mutually agreed premises on chargeable basis. Priyadarshini

College of Engineering, Department of Electronics \& Tele communication Engineering students are able to attend this training program. Your company name shall arrange all the hardware and software needed for training. Priyadarshini College of Engineering shall arrange for the computer lab and projector. Dalvik Apps shall pass on the maximum discount for the college batch and the training fees.
5. Dalvik Apps will introduce all NSDC schemes to the college students every time. As well as register their names to particular scheme as per the Govt. Norms.
6. Dalvik Apps shall allocate certain seats for Priyadarshini College of Engineering for our Three months placement assisted "Summer/Winter Internship" training program conducted by Dalvik Apps it can be online or onsite. Dalvik Apps shall pass on a special 10\%-15\% discount to Priyadarshini College of Engineering, Department of Electronics \& Telecommunication Engineering students. The student shall bring the recommendation letter from HOD / Principal.

## 7. Training program in college premises

| Modul <br> e | Topic <br> Name | Key Content | Duratio <br> $n$ | Hour <br> $s$ |
| :--- | :--- | :--- | :--- | :--- |
| Modul | Drone | Aerodynamics: Explanation of forces <br> and axes involved in flying <br> Understanding of forces of flight | $2-4$ <br> Days <br> Equilibrium: Understanding stable <br> and unstable systems <br> Sensors: Accelerometer, Gyro <br> Sensor, Barometer and | Hour <br> $s$ |


|  |  | magnetometer <br> Motors: How motors work |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modul $\oplus 2 A$ | Embedded <br> Systems | low powered embedded systems an d applications with the help of 32 -bit intelligent ARM processor leaving the old 8 -bit systems behind.Using the training kit participant will do hands- on interfacing of Peripherals like LCD, IR digital sensor, Touch screen, geared DC motor etc with the 32-bit ARM Cortex processor | $\begin{aligned} & 2-4 \\ & \text { Days } \end{aligned}$ | $16-30$ <br> Hour s |
| Modul <br> e 2B | Internet of Things | Working on ESP8266 Wi-Fi Module, lot Web App Development, Data Communication, UART Protocol, Programming: Switch, LED, Motor etc. | 2-4 Days | 16-30 <br> Hour <br> s |
| Modul e 3A | Robotics | Student will learn steps in robotbuilding \& understanding its anatomy. <br> Student will leam how to define problems \& work towards solving them. <br> Student will learn to design competitive models, yet expand his own creativity beyond limits. <br>  | $\begin{aligned} & \hline 2-4 \\ & \text { Days } \end{aligned}$ | 16-30 <br> Hour <br> s |


|  |  | computer; this will help the <br> student <br> build strong foundation for <br> further studies. |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Modul <br> e 3B | Artificial <br> Intelligenc <br> e[AI] | Al and its aspects, Tensor- flow and <br> its practical, Intro to Machine <br> learning and Deep Learning etc | 6 Days | 30 <br> Hour |

- Fee Structure

| $\begin{array}{\|c} \hline \text { Sr. } \\ \text { No. } \\ \hline \end{array}$ | Module | Fees | Minimum Students |
| :---: | :---: | :---: | :---: |
| 1 | Module 1 | As Per Electronics \& Telecommunication Department and Dalvik Apps mutual understanding | In every training program minimum 50-60 students are required |
| 2 | Module 2A |  |  |
| 3 | Module 2B |  |  |
| 4 | Module 3A |  |  |
| 5 | Module 3B |  |  |

8. During this training program the college will provide the local travelling, residential \& Food facility to Dalvik Apps Engineer.
9. College will provide the computer lab before two days of training program as per the required software \& Configuration, for loading the training software's.
10. Priyadarshini College of Engineering, Department of Electronics \& Telecommunication Engineering students can avail any telephonic help from Dalvik Apps faculties if they need in their professional life.
11. Dalvik Apps will provide certificate to all students as well as faculties those are attended the course at the end of course.
12. Both Parties will display opposite parties at least one advertisement on their notice board (Size A4).
13. This MOU shall be valid for one (1) year from the effective date and thereafter it may be renewed on mutually agreed terms.

| Dr.Mrs.S.W.Varade <br> Head of Department <br>  <br> Telecommunication <br> Priyadarshini College of <br> Engineering <br> Nagpur <br> H.O.O. <br> Dept. CfERT <br> priyadarshini College of Engineerihg, Negpur-19 | Dr.M.P.Singh <br> Principal <br> Priyadarshini College of <br> Engineering <br> Nagpur Principal <br> Priyadarshini College of Engg $\qquad$ Nagpur. | Amit R Thool <br> Managing Director <br> Dalvik Apps |
| :---: | :---: | :---: |

## MEMORANDUM OF UNDERSTANDING

## Between

Dalvik Apps
And
Priyadarshini College of Engineering,Nagpur
THIS MEMORANDUM OF UNDERSTANDING (hereinafter referred to as MOU) is by anc between Daivik Apps,Mumbai an IT Company (hereinafter referred to as "Dalvik Apps") and Priyadarshini College of Engineering, Nagpur a public state-assisted higher educatior institution of the State of Maharashtra (hereinafter referred to as "College"). This MOU is effective on the date of the last signature by the authorized officials of the two parties.

## WITNESSETH:

NOW THEREFORE, for the purpose of promoting the increase of useful knowledge, and in consideration of the rautual promises and covenants herein contained, the parties hereto agree as follows:

## Article 1 - BASIC UNDERSTANDING AND OBJECTIVES:

1:1 Dalvik Apps and the College have a mutual desire to develop and execute a 2 days eđucational training progran of 5 in 1 Robot on 2\% \& 27. Aug 2016 under this MOU and it will be valid for academic year 2016-17.
1.2 Training program will be planned jointly by representatives of Dalvik Apps and the College. Both parties entering this MOU anticipate a continuing effort. Workshop will be identified individually as Task Orders : ander this MOU, and all conditions established in the MOU shall apply to each Task Order.

## Article 2 - OBLIGATIONS OF DALVIK APPS

2.1 Conduction the technical training program in the College.
2.2 Supply of publicity material 1 Flex during workshop.
2.3 Certificate of Excellence to each participant from Dalvik Apps.

## Article 3-0bliciations of the college

3.1 The College will provide a drawing/seminar hall/computer lab with a seating capacity of $100-120$, PAS, LCD Projector.

### 3.2 The College will provide Computers/Laptops.

3.3 Accommodation, Lunch \& Dinner for Team Dalvik Apps during the Workshop.

## Article t-COMPENSATION

4.1

| Workshop[Name | Fees Per Student | Kit |
| :---: | :---: | :---: |
| Sin 7Robot | Rs. $500 /-$ | Kit will be given in <br> group of S Studenis |

4.2 College will process for payment to Dalvik $\Lambda p p s$ on the second day of the workshop, all invoices within 30 days of receipt.

13 Payments to Dalvik Apps are to be made in Cash/DD/Cheque/NEFT to "Dalvik Apps".

Article 5 - GENERAI.
5.1 This MOL constitutes the entire and only MOU between the parties, and all prior negotiations, representations, agreements, and understandings are hereby
superseted. No agreements altering or supplementing the terms hereof may be made except by means of a written document signed by the duly authorized representatives of the parties.

IN WITNESS WHEREOF, the parties have executed this agreement effective as of the day and year indicated by the last signature below.


# Deparinhkshini College of Engineering, NAGPUR <br> Department of Electronics and Telecommunication Engineering Session: 2018-19 (Odd Sem) <br> <br> NOTICE 

 <br> <br> NOTICE}

The students of Third, Fifth and Seventh
semester of Electronics and Telecommunication Engineering department are informed that under the banner of Tele-Era, a Vocational Education and Training program on "DRONA AVIATION" is going to be held in the month of $10^{\text {di }}$ to $13^{\text {w }}$. Au gust 2018 in association with Delvikapps-Design and Development, IT-park, Kalyan Mumbai. The registration fees is Rs. 600/-. The interested students should register their name to the undersigned faculty of Tele-Era Committee. The Seats are limited, the process of registration is on first come first serve basis. The Module of Program is as follows;

## COURSE OUTCOMES

- A working understanding of drones and their mechanics
(3) Basic knowledge about scientific and technological principles employed by drones
- First-hand experience of STEM (Science Technology Engineering Mathematics)
learning module.
- Better Drone Flying Skills

O Encouragement to pursue more Technological opportunities.

## THINGS STUDENTS YOU WILL LEARN

- Definition and Uses of Drones

O Aerodynamics: Explanation of forces and axes involved in flying
0 Understanding of forces of flight
O Equilibrium: Understanding stable and unstable systems
O Sensors: Accelerometer, Gyro Sensor, Barometer and magnetometer

- Motors: How motors work
o Propellers: What type of propeller we are using and it affects flying
- Building Pluto Drone on your own

O Flying Training

## COURSE CONTENTS

## O Session 1 -

[ Mechanics of flying vehicles
D Stable systems vs unstable systems

- Session 2 -

D How does propeller work?
D Aeroplanes: Why is Aeroplane stable?

- Session 3 -

0 Motor: Brushed / Brushless
Propellers: How does a fan / propeller works

- Session 4-

E Multirotors: Types and Functions of sensors and computers
E Helicopter - How helicopter maneuver

- Session 5 -

D Sensors for stability
D Battery: Types of batteries, Why LiPo / Parameters of LiPo

Tele-Era Committee:
Ms. V. G. Nasre (Incharge)
Ms. J. C. Kolte (Co-Incharge) (Nits
Ms. Arshi Najish(Member)


Dr. (Mrs.) S. W. Varade (HOD, ETC)

# Priyadarshini College of Engineering, Nagpur Department of Electronics \& Telecommunicaton 

Workshop on "DRONE AVIATION" By DALVIK APPS
Session 2018-19

## IMPACT ANALYSIS

Semester / Section : 2-3 year students
Name of Subject: Drone Aviation workshop
Name of Faculty: Gaurav Singh and Amit Thool
Implementation Method :

| Sr. <br> no. | Feedback point | Excellent | Moderate | Poor | Insufficiant | Overall <br> impact |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: |
| 1 | What is your overall <br> assessment of the event | 45 | 2 | 2 | 2 | Excellent |
| 2 | Please comment on the <br> organisation of the event | 44 | 3 | - | 4 | Excellent |
| 3 | Met your expectations | 47 | 4 |  | Excellent |  |
| 4 | Will usefull / applicable <br> in my work | 32 | 17 | 2 | Moderate |  |
| 6 | Knowledge and <br> information gained from | 46 (yes) | $5(\mathrm{NO})$ | Yes |  |  |
| 7 | participation at this <br> event | Would you like attend of <br> your future workshops | 47 (yes) | $4(\mathrm{NO})$ |  | Yes |


participated By: S1Students of ili and $V$ Semester
Venue: Seminar Hall, IT Building, WING E
Dated: $10,08 / 2018$ to $13 / 08 / 2018$
Event: Vocational Educational Training Program on "Drone Aviation" in association witt) Delvikapps-Design and Development and We-Can Education, Kalyan Mumbai

Purpose: To provide the knowledge about

* A working understanding of drones and their mechanics
- Basic knowledge about scientific and technological principles employed by drones
* First-hand experience of STEM (Science Technology Engineering Mathematics)
- learning module.
- Better Drone Flying Skills
* Encouragement to pursue more Technological opportunities.

Resource Person:Mr. Amit Thool, Managing Director, Delvikapps-Design and Development and Mr. Gaurav Singh, CEO, We-Can Education.


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| GROUP ${ }^{\text {SR}}$ | Session: 2018-19 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DRONE AVIATION |  |  |  |  |  |
|  |  |  |  | Attenuance Sheet |  |  |
|  | SR.NO. | ROLL. NO. | SEM | NAME | S |  |
| ROUP 1 | 1 | 132 | Third | Sakshi suryawa |  | SESSION 2 |
|  | 2 | 136 | Third | Sharine lautrey |  | (Gatary |
|  | 3 | 133 | Third | Sakshi kopulw | Sravine | Sharias |
|  | 4 | 129 | Third |  | sopulwar | Kopulwar |
| 3ROUP 2 | 5 | 123 | Third | Ritika gautam | Ritita- | Gitika |
|  | 6 | 131 | Third | Pournima khotele | Quns. | ufins. |
|  |  |  | Third | Sahil p. khelkar | (1) <nelkos | (1) knelken |
|  | 7 | 101 | Third | Aditya R. hirekhan | Atirethan | Arirelcha. |
|  | 8 | 134 | Third | Sarang Katre | Qatre | Okatre |
| GROUP 3 | 9 | 161 | Third | Jyoti Ranjan | Jyehi Rujm | Jyasi enple |
|  | 10 | 155 | Third | Amar S. Chippawar | Q | 4 |
|  | 11 | 138 | Third | Shivani K. Sadar | Bredare | $\stackrel{\text { codar }}{ }$ |
|  | 12 | 106 | Third | Devyani Thakre | is S Thature | D-s Thatere |
| GROUP 4 | 13 | 128 | Third | Ritik Wagde | Puayde | Puage |
|  | $4{ }^{14}$ | 140 | Third | Shubham Meshram | ) | $7 \times 1$ |
|  | 15 | 119 | Third | Nishant N. Dangale | Niongale. | -12angule |
| GROUP 5 | 15 | 127 | Third | Renuka Pimpalshende | thy | fus |
|  | 55 <br> 17 | 111 | Third | Kajal N. Yede | zajal | Roial |
|  | 18 | 113 | Third | Nainsi L. Urkude | Eaens | (Taens |
| GROUP 6 | 19 | 114 | Third | Neha C. Kale | (1)ale | (1)2ale |
|  | 20 | 117 | Third | Nikita Zade | ade | Aadu |
|  | P6 21 | 118 | Third | Nikita Lende | Fende. | Nende |
|  | 22 | 148 | Third | Urvashi Jadhav | aruadio | Wriasti |
|  | 23 | 121 | Third | Parth Deshimukh | beary | patet |
|  | 7 | 144 | Third | Sumit Manke | dus | xume |
|  | 25 <br> 20 | 125 | Third | Pratham P. Maindalkar | maindalrear | fraindabran |
|  | - 26 | 109 | Third | Harmesh Gajbhiye | Stay |  |
| GROUP 8 | 27 | 113 | Fifth | Kumkum khẩve | Que | 2ux |
|  | 88 | 123 | Fifth | Pratiksha meshram | tajexfune |  |
|  | - 29 | 122 | Fifth | Pranali Ikhar | Prena |  |
|  | 30 | 128 | Fifth | Rucha Deshpande | Sucta |  |
| GROUP 9 | 31 | 112 | Fifth | Jyoti Ganer | EPand |  |
|  | 93 | 111 | Fifth | Himani barde | Warde |  |
|  | 33 | 103 | Fifth | Ankush Nag | H1 |  |
|  | 34 | 215 | Fifth | Meenal Meshram |  | $\xrightarrow{+}$ |
| GROUP 10 | 35 | 312 | Fifth | Damini S. Dangare |  | le |
|  | 10.36 | 315 | Fifth | Pallavi Katre | DSD | ISSR |
|  | - 37 | 323 | Fifth | Kajal Khandekar | हथात्वद <br> Anto. | sporey |



MEMORANDUM OF UNDERSTANDING

## BETWEEN

## DEPT. OF ELECTRONICS \& TELECOMMUNICATION

## PRIYADARSHINI COLLEGE OF ENGINEERING

## NAGPUR



## AND

## MAXIMUM SOLUTIONS, NAGPUR



Legitimate from $5^{\text {th }}$ FEB. 2018 to $4^{\text {th }}$ FEB. 2019

## MEMORANDUM OF UNDERSTANDING (MOU)

This Memorandum of Understanding (MOU) is entered into the $5^{\text {th }}$ day of Feb. 2018 between the Electronics \& Telecommunications Department, Priyadar hini college of Engg, having their administration office at Lokmanya Tilak Jankalyan Shikshan Sanstha, (LTJSS),'Lokmanya Bhavan' Near Water Reservoir, Laxminagar,Nagpur.

## AND

Maximum Solutions, Nagpur, a company registered under the companies act 2015 having its registered office at whose administrative office is at "Manomangal", Buty Chawl, Behind Regent Cinema, Abhyankar Road, Sitabuldi, Nagpur-12, Maharashtra. India, represented by either of its Director Mr. Avinash Sao (Here in after to be called the 'MAXIMUM SOLUTIONS,NAGPUR').

## I. INTRODUCTION

This Agreement intends to provide the framework for the performance of a constructive and successful training for student's and faculties of Priyadarshini college of engineering-Electronics \& Telecommunication Department and as outlined below:

1. Provide academic interaction by delivering guest lecturers of industry expert on topics relevance to Industry.
2. Provide necessary help in organizing workshops / conferences programs at Priyadarshini college of engineering for enhancement of skills for students of Priyadarshini college of engineering.
3. Provide industrial visits to companies for interaction of student with industrial process.

II . OBJECTIVES AND SCOPES:
To deliver high quality Training/ Certification in PLC \& SCADA, HMI, DRIVES, PANEL WIRING and Basic Electronics/Electrical Troubleshooting methods to the students of Priyadarshini college of engineering, from the Institute.

- To explore further strategies that lead to the improvement in Training and Placement activities, which shall benefit both the parties.
- To share skills, efforts and resources to execute this MOU and to grow as a team.
- To publish and to promote the mutual agreement in order to increase recognition of both parties.
- To extend the necessary support for effective implementation of the various activities under IIPC Cell (Institute Industry Partnership Cell) which are funded by AICTE.

[^0]
# Contact: $+91-9767226679,+91-9960178813,+91-9561568732$ Eraail: contact @maximumsolutions.in Website: www.maximumsolutior s.in 

## III. NATURE OF COLLABORATION:

This memorandum of understanding (MOU) represents a Partnership Agreement under which the above mentioned parties will abide as follows:

## PCERESPONSIBILITIES:

- To appoint a Coordinator for the effective implementation of this MOU.
- To conduct bi-monthly meetings between Institute and Company Management of the company and/ or authorized Coordinator in order to identify possible issues and to review if any.
- To provide access and use of Institute facilities, infrastructure, equipment and use of library facilities, necessary to deliver the training and assessments agreed in this MOU.
- To provide qualified and competent faculties or lab attendant/s for partial support at its own expense for conducting the necessary training to the students of the Institute.
- To provide all assessments to the candidates shortlisted by the company in line with the curriculum specified by the Company if any.
- Institute shall be in continuous touch with the students about the progress of training or Skill Enhancing Programmed.
- Shortlisted student shall complete the project under the guidance of faculties appointed by the Institute and experts from the company.
- Candidate's attendance will be monitored on batch to batch basis.
- Institution is free to sign MOU/s with other competent companies in similar area and company shall not have any objection for the same.
- Students from second, third and final year from the Institution, polytechnic and other engineering students of this region shall be trained.
- Institute has No Objection if Company takes any bond from the students of the Institute with the consent of students during appointment/ joining in the company.
- Participants shall pay mutually agreed fees to the company against each training program successfully conducted.


## MAXIMUM SOLUTIONS, NAGPÚR RESPONSIBILITIES:

MAXIMUM SOLUTIONS,NAGPUR accepts the responsibilities for -

- To appoint a Coordinator for the effective implementation of this MOU
- To conduct regular meetings between Institute and Company Management in order to identify possible issues and to review if any.
- Company shall provide feedback report and list of the shortlisted students to the Institute.
- Company shall provide detailed guideline, curriculum regardir g Skill Enhancement Programmed.
- Company shall update or train the faculties of Institute for getting the necessary partial support during the training sessions and assessment of project work if any.
- Company shall charge mutually agreed fees against the training program successfully conducted in the Institution.


## IV. TRAINING MODULES:

The various training modules are as follows-

1. INDUSTRIAL AUTOMATION HARDWARE/SOFTWARE (PLC, SCADA, HMI, DRIVES)
2. COMMUNICATIONS PLC TO DRIVES TO MOTORS
3. ELECTRICAL BASIC \& PANEL WIRING.
4. PROJECTS GUIDANCE
v. WORKING ARRANGEMENTS:

To ensure effective functioning of the arrangement, each party has nominated the person below to act as the official representative for each party and to accept responsibility for the successful fulfillment of this MOU.

For Priyadarshini college of Eng

For (Maximum Solutions, Nagpur)
AND
 Head, Electronics \& Tele. Dept.

Dent. of E8T
Priyangashini College of
$\qquad$ ,Maximum Solutions, Nagpur, Director

New clauses can be added during the course of implementation of MOU, if mutually agreed by both the parties.


## VI. Validity of the MOU:

- This Memorandum of Understanding (MOU) will be valid for ONE Year and can be further extended on mutual understanding of both the parties.
- There will be a binding on both the parties to not to revoke this MOU before completion of Six Months from the date of signing this MOU.
- Before completion of One Year either party can revoke this MOU by giving ONE MONTH notice in writing.

Agreed and Signed on behalf of:


Authorized Signatory
MAXIMUM SOLUTIONS, NAGPUR, Nagpur,

Authorized and Signed on behalf of:


INSTITUTE, PCB





# PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR Department of Electronics and Telecommunication Engineering Session: 2018-19 (Odd Sem) 

## NOTICE

All the students of $3^{\text {rd }}$ and $5^{\text {th }}$ sem of Electronics and Telecommunication Engineering department are informed that under the banner of Tele-Era, a Guest Lecture on "PLC and SCADA" is going to be held in the Department on 03/08/18 in Seminar Hall, IT Building, Wing E at $2: 00 \mathrm{pm}$. All the students are informed to attend the Guest Lecture.

Tele-Era Commitgee:
Ms. V. G. Nasre Ms.Jyoti Kolte
Ms.Aarshi Nazish


Dr. (Mrs.) S. W. Varade (HOD. ETC Department)

Organized By: Electronics and Telecommunication Engineering Department
Participated By: 95 Students of III \& V Semester
Venue: Seminar Hall, IT Building, WING E
Dated: 03/08/18
Event: Guest Lecture on "PLC \& SCADA"
Purpose: To provide the technical knowledge on widely used automation system which includes PLC \& SCADA and students will able to know how to design automation system using PLCs.

Resource Person: Mr. Dinesh Nimbalkar, Maximum Solutions Pvt. Ltd., Nagpur.


## Remarks/Conclusion:

The students of third and fifth semester attended the guest lecture on PLC \& SCADA conducted by Mr. Dinesh Nimbalkar, Maximum Solutions Pvt. Ltd., Nagpur. The designing of the automation system was done using PLCs. All the steps of the PLCs Designing were explained by the expert.

The students were amazed to see the working models of the automation system.

## Priyadarshini College of Engineering, Nagpur

Department of Electronics and Telecommunication Engineering Teaching Learning process: Innovations and Initiatives (Session : 20i8-19)

## Impact Analysis

| semester/ Section | : Sth sem |
| :--- | :--- |
| Name of Subject | : PLC-SCADA Seminar |
| Name of Faculty | : Mr.Dinesh Nimbalkan |
| mplementation Method | $:$ |


| S5. <br> No. | Feedback point | High | Moderate | Poor | Overall <br> Impact |
| :--- | :--- | :---: | :---: | :---: | :---: |
| 1 | The relevance of methodology <br> used by the faculty for the <br> topic is | 69 | 21 | 01 | High |
| 2 | The objective compliance of <br> the innovations \& initiatives is | 45 | 33 | 04 | mederafe |
| 3 | Rate the learning values by <br> considering the co concept, <br> knowledge, analytic abilities and <br> broadening perspectives | 46 | 27 | 08 | Moderate |
| 4Level of satisfaction of the <br> interaction of faculty with the <br> student | 47 | 25 | 07 | Moderate |  |

Average of overall impact: Morlerate

Dr.(Mrs.)S.W.Varade HOD, E \& TC

# MEMORANDUM OF UNDERSTANDING 

# between <br> V S INFORMATICS Pve. Ltd, Nagpur <br> AND <br> Priyadarshini College Of Engineering, Nagpur 

## Legitimate From $10^{\text {th }}$ Feb 2018 to $25^{\text {st }}$ Feb 2020

This Agreement made and entered inte on this 10 day of Feb. 2018 between V S Informatics Fut. Ltd., at Nagpur, and Priyadarshini College of Engineering. Hereinafter referred as PCE,CRPF gate, Hingna road, Nagpur The aforesaid institutions are hereinafter referred to individually as institute and collectively as institutes.
Industry Institute Interface Cell, hereinafter referred as liic.
It is the statutory object to disseminate advance knowledge by providing instructional, Industrial Training and Placement facilities in such branches of earning as it may deem fit and it shill endeavor to provide students and teachers the necessary atmosphere and facilities for the promotion of:

## 1. OBJECTIVES OF THE MOU

a) To promote interaction between $V$ S INFORMATICS and FCE in jointly beneficiai areas towards students Technica! Development.
b) To provide a formal basis for initiating interaction between $V S$ INFORMATICS and PCE.
c) To promote and enhance academic interest between $\vee S$ iNFORMATICS and PCE.
d) To provide advice for implementation of Quality \& Industrial Training at PCE.
how a company functions, as well as useful information related to the practical aspects of the educational course which cannot be visualized in lectures.

## b. Internship \& Live Project Development using Industry Platform. Summer \& Winter Internship:

An Internship at VS INFORMATICS provides valuable experience to all interns. As per VS INFORMATICS experience, it helps candidate to gain a better understanding of their Knowledge, likes, dislikes, and wants for the future. It also gives them valuable hands-on experience and allows them to apply what they've learned as per their interest to a certain career field.

Interns can join \& complete this Internship only at Company premises. Duration of this internship is 6 Weeks to 8 Weeks depending upon the Company Schedule. Interns may have to spend at least $2 \mathrm{Hrs} /$ day during session. Summer Internship Starts in the Month of May \& June while the Winter Internship sessions starts in the month of November \& December. Industry Speakers, Tech Guides and Developers covers all the sessions in Internships.

## Live Project Development:

The inventiveness was created keeping the issues and concerns of the Core Industry at one end and challenges of the Educational Institutions at the other end. As part of this initiative, VS INFORMATICS has been nurturing the Industry Educational Institutions interface through Live Industrial Projects and Real Time Development to ensure better
communication skills and to provide strong foundation of Computer languages communication workshops would be regularly organized as per mutual schedule which would also includes building positive attitude, positive thinking, time management, developing interpersonal skills, developing listening skills and participation skills in group discussions etc

## Facts:

Challenge - The only confusing and difficult part of Certifications is that, the certification process can cost high amount in terms of finances and time. Most of the available certifications can be earned through experience and self-study, while some require high-cost instructor-led training. There are too many certifications available and student or candidate needs to decide this by them self.

This facility can be avail by the Students those who have gone through proper training and project development work. V S INFORMATICS will assist Placements for all such respective students into own (V S informatics) and associate Companies. This doesn't intent that it brings any sort of assurance of Students placement. V S INFORMATICS and its associates do not guarantee about placements and joining

The PCE has decided to recognize $V S$ INFORMATICS an approved Institution as decided by the Syndicate of the Board and to recognize to conduct various Industries/Job oriented para-professional courses under the approved institution of On campus/Off campus paraprofessional program centers/Transfer of Technology and research program center in collaboration with $V$ S INFORMATICS.

The parties have had preliminary discussions in this matter and have

This MOU, unless extended by mutual written agreement of the parties, shall expire in 3 years after the effective date specified in the opening paragraph. This MOU may be amended or terminated earlier by mutual written agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party. However, no such early termination of this MOU, whether mutual or unilateral, shall affect the obligations of the participants under any Agreement, Confidentiality clause as referenced in clause 3 above, or any other agreement entered into pursuant to this MOU, which obligations shall survive any such termination. Nothing in this MOU shall be construed to make party a partner, an agent or legal representative of the other for any purpose.

It is understood by the Parties herein this MOU is based on the professional competence and expertise of each party and hence neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party.
a) The details for the efficacious implementation of this Memorandum of Understanding shall be jointly worked out on mutually acceptable terms with in the parameters of the policies, rules and regulations of both the institutions.
b) The parties to this memorandum may, by mutual consultant, add modify, amend, delete, review or revise any term(s) and condition(s) of this agreement.
c) The intent and implementation of this memorandum is subject to the policies of the respective states (in case of international agreements) and the laws of the land.
d) The parties to this MOU undertake to treat as CONFIDENTIAL AND

PRIVILEGED information of the other institution, which ?s? classified in advance. The terms of confidentiality and mode of disclosure shall be as per mutually acceptable terms.
e) This MOU shall require the ratification of the competent academic/executive body of both the institutions. This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity. BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written

## On behalf of

V S INFORMATICS ,Nagpur
Nagpur

Ny: Mr. Sandeep R. Sonaskar
Ny: Mr. Sandeep R. Sonaskar
Title: Director
Date: $10 / 2 / 2018$
Witness :
1.
2.

On behalf of
Priyadarshini College of Engineering

By :


Title : Incharge (EDC Cell)
Date: 101212018
Witness:
1.
2.


Dr S.A.Dhale
(Vice Principal)
PCE,Nagpur

(Principal)
PCE,Nagpur
organized By:Electronics and Telecommunication Engineering.
Attended By: Students of III, V \& VIII Semester ( 88 Sudents)
Venue: Seminar Hall (E\&TC Dept), Wing E, Rajiv Gandhi IT Complex.
Date: 13/7/2018
Event: Seminar on start up new project under Incubation Centre by Vsinformatics pvt lid.
Purpose: To make aware to become Enrepreneur and How to start the new Company.
Resource person : Mr Sandeep Sonaskar, Director VS.Iformatics pvt Itd.
Conducted by: Dr.V.K.Taksande ,Mr.V.G.Girhepunje,Ms.S.G.Mungale (E\&TC)


Remarks/Condusion:Mr. S. Soneskar make we sudent understood amm curnent senrio of the market, and exphin the market requirement for entreprener. He wold the sudents about Solar Panel and VolP ,Sular bussisess san up offer how to sart the new business in the solar panel and to achieve the nilssion vission and profit targets in business and what are sategies to keep in mind. In his discussion he old the sudents how their company will be benified for the
organizeu uy. rryauarsnini College of Engg. ,NAGPUR
Attended By: 14 Students of Electronics Engg \& Electronics \& Telecommunication Engg. Department and 4 faculty member of Electronics \& telecommunication Engg. (18)
Date: $25 / 10 / 2018$ to $26 / 10 / 2018$
Venue: Workshop Lab (ET Dept), Wing -E, Rajiv Gandhi iT Complex.
Event: 2 day workshop of LED tube light fabrication
Purpose: To Fabricate LED tube light.
Conducted By: Dr.V.K.Taksande, Prof.Sheetal G.Mungale EDP cell Coordinators.
Resource person: Mr.Sandeep Sonaskar (v.s.Informatics Itd.)


## Remarks:

Day 1 Theortical concept and the procedure to fabricate the Led Tube light
Explained different types of LED tubelight, types of machineries used for the testing and soldering , what are parts of bulbs and called as like fixture , driver etc., software used for the measurement of light intensity. Captical investment for the setup of the company, also given training to fabricate the led Tube \|ght and focus light used in street area.

## Day 2 Fabricate the LED tube light

SMT technology is applied in the encapsulation of LEDs and PCPB. Dispenser Machine: At first solder paste should be dipped on the dispenser machine for the follow-on work. Automatical SMT Machine: And then, LEDs are mounted on PCB board through SMT machine. Reflow Soldering Machine: After that. PCB hnarde aro nut intn rofinnu enthorinn marhine for


To promote research interaction and co-operation.
Lokmanya Tilak Jan-Kalyan Shikshan Sanstha (LTJSS) is well established \& working for giving skilled workforce in the field of Engineering \& Technology through its Technical Colleges at Nagpur and Mumbai.

1. Priyadarshini College Of Engineering- Estd. in 1990
2. Priyadarshini Lokmanya Tilak Insitute of Management Studies and Research- Est. In 1994
are two of the premier institutes run by the Sanstha.

## And

Shree Ashoka Solar and Energy Pvt Ltd- established in 2012, is an ISO 9001:2008 and NDIC certified company is actively engaged in manufacturing, exporting, importing and supplying an extensive range of Solar Energy Products. It is supplying the huge assortment of industrial products, which include Solar Street Lights. Solar Power Packs and Solar Lanterns, to provide energy-efficient solutions to their customers. Solar products are also exported to countries Sri Lanka, South Africa and Yemen.
We are hereby proposing the areas of collaboration and common points of consideration of an MOU which we wish to have with "Shree Ashoka Solar and Energy Pvt Ltd, Nagpur". The purpose of an MOU is to carry out mutually beneficial activities. During the period of MOU, both the institute and the company would try to cooperate and collaborate with each other in the identified areas of mutual interest for mutual development as detailed under:


IOKMANYA TIIAK IANKATVAN CHHLCTHAT ©...n.....

On its part, the company shall consider and try, to the extent possible-

1. Industrial Training for graduates and post graduates, whenever possible depending on the requirement of the Company.
2. To provide live/industrial projects to the faculties and students. The level, span and nature of training shall depend on company's
3. To provide resource persons for Guest lecture/ workshops etc at the students \& Faculty development programs conducted at the college from time to time.
4. To grant permission for visits of faculty members and the students to the company as per mutually convenient dates and schedule.
5. To provide content for training of students \& faculty on necessary subject and skills.
6. To prefer the institute for the purpose of campus recruitment of the fresh graduates and post graduates.

On its part, the institute shall consider and try to the extent possible.

1. To make the maximum benefit of the various training and development initiatives offered by the company.
2. To give a preferential treatment to the company in the campus recruitment activity.
3. To offer the services of the expert faculty members for the purpose of company, if required.
4. To offer testing and other technical facilities available with the college if required by the company as per the norms of the institute.
5. To offer non technical consultancy to the company for-soft skill, personality development, counseling \& other topics.
6. To offer the library facility of the institute to the company personnel if required by the company as per a procedure which is mutually evolved.

N WITNESS WHEREOFF the parties hereto have executed this understanding on the day and date as below.

For Priyadarshini College of Engineering


1) Dr.M.P. Singh

Principal,
Priyadarshinis finflege of Engineering
Priyadarshini College of Eng.
Nagpur. Nagpur.
$\sim$

Witness:
$\qquad$
$\qquad$
$\qquad$

For. Shree Ashoka Solar Pvt Ltd


1) Mr. Ashok Aherkar Director,

Shree Ashoka Solar and Energy Pvt Ltd, Nagpur.


Point of contact from Priyadarshini College of Engineering, Dr. K. B. Porate, Head of the Department, Electrical Engineering Dr. Mrs. Shubhada P. Muley, Professor, Electrical Engineering Mrs.P. S.Gotekar, Asst Professor, Department of Electrical Engineering.

Point of contact from Shree Ashoka Solar and Energy Pvt Ltd: Mr. A. M. Borkar,

Production Manager,
Shree Ashoka Solar and Energy Pvt Ltd, Nagpur


# Between <br> Priyadarshini Group of Institutions, Nagpur <br> And <br> Gentech Engineering Services, Nagpur 

This Memorandum of Understanding (MOU) is being executed to foster a friendly relationship , between Priyadarshini Group of Institutions,Nagpur
and

## Gentech Engineering Services,Nagpur

> through
mutual cooperation in the areas of education and research. No financial obligations are assumed under this agreement.

## ARTICLE 1: SCOPE of COLLABORATION

1.1 General Scope. Each institution/organization may offer to the other opportunities for activities and programs such as teaching, research, exchange of human resource development that will foster a collaborative relationship.
1.2 Specific Activities. The financing of any of the activities mentioned in this agreement shall be dependent on the availability of funds and shall be subject to specific agreements by which these activities may be accomplished. The institution/organization contemplate implementation of programs or activities such as: a) joint educational and research activities; b) exchange of human resource for research, lectures, and discussions; c) participation in seminars and academic meetings.d) exchange of academic materials, publications, and other information; and e) special shortterm academic programs.
1.3 Prior to initiating any specific activity or program, the institutions will negotiate and enter into a separate agreement, signed by the appropriate authorities at each institution/organization.

## ARTICLE 2: RENEWAL, TERMINATION, AND AMENDMENT

2.1 Duration. This MOU shall remain in effect for a period of [five] years from the date of the last signature on the document (the "Anniversary Date") unless either institution provides the other written notice of its intention to discontinue no less than 60 days in advance of the then current Anniversary Date.
2.2 Extension and Renewal.. The institution/organization may extend or renew this MOU by agreement, confirmed in a written amendment signed by the authorized signatory at each institution/organization.
, 2.3 Amendment. No amendment of the terms of this MOU will be effective unless made in

## writing and signed by each institution's authorized signatory

## ARTICLE 3: GENERAL MATTERS

3.1 Binding Obligations. This MOU is not intended to create any legally binding obligations but, rather, is intended to foster genuine and mutually beneficial academic collaboration.
3.2 Authorized Signatories. Eachinstitution/organization represents that the individuals signing this MOU have the authority to sign on its behalf in the capacity indicated.


## Memorandum of Understanding

## Between

## Priyadarshini Group of Institutions, Nagpur <br> And <br> Gentech Engineering Services, Nagpur

This Memorandum of Understanding (MOU) is being executed to foster a friendly relationship - between Priyadarshini Group of Institutions,Nagpur and Gentech Engineering Services, Nagpur through
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ON BEHALF OF:<br>Priyadarshini Group of Institutions, Nagpur,

ON BEHALF OF:
Gentech Engineering

Place: Nagpur
Date: 09/03/16.

## Memorandum of Understanding

## Entered into <br> ON 21st day of JULY 2018 till 20th day of JULY 2023 <br> BETWEEN <br> Agreen Allied Services Pvt Ltd, Nagpur <br> AND <br> Priyadarshini College of Engineering, Nagpur <br> To promote research interaction and co-operation.

Lokmanya Tilak Jan-Kalyan Shikshan Sanstha (LTJSS) is well established and working for giving skilled workforce in the field of Engineering and Technology through its technical colleges at Nagpur and Mumbai. Priyadarshini College Of Engineering established in 1990 is one of the premier institutes run by the Sanstha.

And

Agreen Allied Services Pvt Ltd, Nagpur is an solar system integrator and EPC partner to set up various states of the art PV Solar Power Plant facilities. It has become well known for design, dedication, innovation, quality services for construction of grid connected solar power plant, roof top power plants, solar street light and solar and solar water pumping system.

We are hereby proposing the areas of collaboration and common points of consideration of an MOU which we wish to have with "Agreen Allied Services Pvt Ltd, Nagpur". The purpose of an MOU is to carry out mutually beneficial activities. During the period of MOU, both the institute and the company would try to cooperate and collaborate with each other in the identified areas of mutual interest for mutual development as detailed under:

## Common points of consideration:

1. The MOU does not imply any kind of financial obligation, unless agreed upon in writing. on either side and neither party can claim for any financial charges.
2. The association and activities carried out through the MOU should never be considered as an employment opportunity in any course of time by any individual concemed.
3. The MOU does not bind or compel either party to provide for the above mentioned favors to the other party and rather aims to build and foster a spirit of Industry Institute Collaboration for the mutual benefit while protecting the individual and mutual interests.
4. The MOU shall be effective from the date of signing/ approval through official mail and either party can terminate this arrangement by a simple written communication by a competent authority at any point of time.
5. Neither party shall be liable for any indirect, punitive, special, incidental or consequential damages arising out of in connection with this understanding, whether for breach of this MOU or in torts, including loss of business, data, revenue and profits or for any third party claims against the other whatsoever.
6. Any and all the disputed, controversy or claims related to or arising in connection with this MOU shall be referred to the Chief Executive Officers of each of the parties for an informal solution.
7. Any interaction of any kind will have to be approved by the POCs of both the parties through mails/ letters/ invites etc.

This agreement intends to provide all the facilities as mentioned to students and faculties of Electrical Engineering. Mechanical Engineering and Electronics Engineering Department.


| Priyadarshini College of Engineering, Nagpur DEPARTMENT OF MECHANICAL ENGINEERING |  |
| :---: | :---: |
| ONE PAGE REPORTON |  |
| Title | One page report on Entrepreneurship Development |
| Name of Activity | Expert Lecture on Entrepreneurship Development |
| Date | $31^{\text {st }}$ August 2018 (11:00 AM) |
| Venue | Departmental Seminar Hall, Mechanical Engineering Department, PCE, Nagpur |
| Organized by | EDP Cell, Mechanical Department, PCE, Nagpur. |
| Name of Expert | Mr. Amit Singh <br> Regional Manager, National Entrepreneurship Network, Wadhwani Foundation. |
| Participated by | Students of $7^{\text {th }}$ Sem Mechanical |
| Activity In-charge | Dr. M. S. Giripunje, Prof. L. D. Gabhane, Prof. P. T. Date |
| Content | The expert lecture focuses on : <br> 1. Market segmentation and Niche marketing <br> 2. Formation of E - Cell and responsibilities of E - Leaders <br> 3. Interaction with students about their ideas for start up |
| Objective | The objectives of Orientation program was: <br> 1. To create awareness and motivate students for Entrepreneurship development program <br> 2. To Understand the responsibilities of E - Cell <br> 3. To discuss and guide students about their ideas for start up |
| Outcome of Activity | 1. Students come to know about the various challenges in market while implementing their start up ideas/product for for self employment. <br> 2. Students can work on their own Start up ideas with the guidance provided <br> 3. Formation of E - Cell / Start up club <br> 4. Students come to know about functions and responsibilities of E Cell / Start up club |

PHOTO GALLARY:




| Priyadarshini college of Engineering,Nagpur DEPARTMENT OF MECHANICAL ENGINEERING |  |
| :---: | :---: |
| ONE PAGE REPORTON |  |
| Title | One page report on Orientation Program for Enterpreneurship Development Training |
| Name of Activity | Orientation Program for Entrepreneurship Development Training |
| Date | $20^{\text {th }}$ July 2018 (3:30 PM) |
| Venue | Departmental Seminar Hall, Mechanical Engineering Department, PCE, Nagpur |
| Organized by | EDP Cell, Mechanical Department, PCE, Nagpur |
| Name of Expert | Mr. Amit Singh Regional Manager, National Entrepreneurship Network, Wadhwani Foundation. |
| Participated by | Students of $7^{\text {th }}$ Sem Mechanical |
| Activity In-charge | Dr. M. S. Giripunje, Prof. L. D. Gabhane, Prof. P. T. Date |
| Content | The Orientation program consist of : <br> 1. What is entrepreneurship <br> 2. Myths about entrepreneurship <br> 3. What does it take to be an entrepreneur |
| Objective | The objectives of Orientation program was: <br> 1. To create awareness and motivate students for Entrepreneurship development program <br> 2. Understanding the students opinion about the Entrepreneurship as a career option <br> 3. Clarifying the Myths regarding Entrepreneurship |
| Outcome of Activity | 1. Students will get the idea about the various steps in the development of Entrepreneur which will motivate the students for self employment. <br> 2. Students can work on their Start up ideas using the concepts from Orientation program. |

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## PHOTO GALLARY :


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