



## 3.7.2.

**Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)**

### CONTENTS

e-copies of the MoUs with institution/ industry/ corporate house:

S. No.	Description	Pages
1	List	01 to 02
2	2019-20	03 to 49
3	2019-18	50 to 75
4	2017-18	76 to 106
5	2016-17	107 to 140
6	2015-16	141 to 179

3.7.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)(10)

Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MOU year wise	Number of students/teachers participated under MoUs
<b>2019-20</b>					
FACE	FACE	2019-20	1 year	CRT Training	888
COIGN	COIGN	2019-20	1 year	Coding Training	
Talentio Solutions	Talentio Solutions	2019-20	1 year	Capgemini Company Specific Training	377
IIRS Dehradun	IIRS	2019-20	3 months	Basics of Remote Sensing, GIS and GNSS	15
Geospatial and Environmental Solutions(GES)	Geospatial and Environmental Solutions(GES)	2019-20	3 Years	Faculty Visits and Training, Student Training, Seminars, Workshops, Refresher Courses, Cooperative Research, Competance in Consultancy	27
ZUNIK ENERGIES PVT Ltd.	ZUNIK ENERGIES PVT Ltd.	2019-20	1 Year	Power Electronic Converters	5
BSNL	BSNL	2019-20	5 years	Student internships	4
Bennett University	Bennett University	2018-19	2 Years	Reseach, Teacher & Student Training	93/15
SS ACADEMY	SS ACADEMY	2019-20	6 WEEKS	ADVANCE EXCEL TRAINING	30
<b>2018-19</b>					
Talentio Solutions	Talentio Solutions	2018-19	1 year	Capgemini Company Specific Training	411
Conduira	Conduira	2018-19	1 year	CRT Online Platform	800
IIRS Dehradun	IIRS	2018-19	3 months	Basics of Remote Sensing, GIS and GNSS	25
Geospatial and Environmental Solutions(GES)	Geospatial and Environmental Solutions(GES)	2018-19	3 Years	Faculty Visits and Training, Student Training, Seminars, Workshops, Refresher Courses, Cooperative Research, Competance in Consultancy	26
ZUNIK ENERGIES PVT Ltd.	ZUNIK ENERGIES PVT Ltd.	2017-18	1 Year	Power Electronic Converters	5
Bennett University	Bennett University	2018-19	2 Years	Reseach, Teacher & Student Training	00/05
<b>2017-18</b>					
Conduira	Conduira	2017-18	1 year	Corporate Recruitment Training	1040
FACE	FACE	2017-18	1 year	Company Specific Training	650
IIRS Dehradun	IIRS	2017-18	3 months	Basics of Remote Sensing, GIS and GNSS	15
Vizianagaram Municipality	Vizianagaram Municipality	2017-18	6 months	Consultancy Services for 3rd Party Quality Assurance	25
ZUNIK ENERGIES PVT Ltd.	ZUNIK ENERGIES PVT Ltd.	2017-18	1 Year	Power Electronic Converters	25
National Instruments	National Instruments	2013	5 years	Training on LabVIEW and Internships	45

Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MOU year wise	Number of students/teachers participated under MoUs
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**2016-17**

FACE	FACE	2016-17	1 year	Freshman Induction Program	817
3ORBS	3ORBS	2016-17	1 year	Life Skills Training Program	1026
Conduira	Conduira	2016-17	1 year	Corporate Recruitment Training	779
FACE	FACE	2016-17	1 year	Company Specific Training	710
IIRS Dehradun	IIRS	2016-17	3 months	Basics of Remote Sensing, GIS and GNSS	30
National Instruments	National Instruments	2013	5 years	Training on LabVIEW and Internships	70
Think Labs	Think Labs	2011	6 years	Training students on Embedded Systems	40

**2015-16**

Conduira / Formac	Conduira / Formac	2015-16	1 year	CRT	246 (Conduira) / 421 (Formac)
FACE	FACE	2015-16	1 year	Freshmen Induction Program	643
FACE	FACE	2015-16	1 year	TCS Specific Treaining	842
3 ORBS	3 ORBS	2015-16	1 year	Life Skills Training Program	1019
IIRS Dehradun	IIRS	2015-16	3 months	Basics of Remote Sensing, GIS and GNSS	25
SIEMENS	SIEMENS	2015-16	1 Year	PLC and Drives	37
Think Labs	Think Labs	2011	6 years	Training students on Embedded Systems	40

# 2019-20

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**MAHARAJ VIJAYARAM GAPATHI RAJ COLLEGE OF ENGINEERING(AUTONOMOUS)**

Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram-535005, Andhra Pradesh

**Accredited by NAAC with 'A' Grade & Listed u/s 2(f) & 12(B) of UGC**

**(Approved by AICTE, New Delhi and Permanently Affiliated by JNTUK-Kakinada)**

NBA Accredited UG Courses: B.Tech(MEC), B.Tech(CIV), B.Tech(EEE), B.Tech(ECE), B.Tech(CSE), B.Tech(IT),  
B.Tech(MEC) & B.Tech(CHE) and PG Course: MBA



## **Service Level Agreement (SLA)**

The Service Level Agreement (SLA) is entered into on 5 June 2019 between **Maharaj Vijayaram Gajapathi Raj (MVGR) College of Engineering (Autonomous)**, Vizianagaram, AP. 535005 and **Focus Academy for Career Enhancement (FACE)**, Hyderabad - 500082

**Maharaj Vijayaram Gajapathi Raj (MVGR) College of Engineering (Autonomous)**, is represented by **Dr.K.V.L.Raju, Principal** and **Focus Academy for Career Enhancement (FACE)**, Hyderabad – 500082 is represented by **Mr. Praveen P, Senior Manager - Business Development – Andhra Pradesh, Telangana & Odisha.**

**Maharaj Vijayaram Gajapathi Raj (MVGR) College of Engineering (Autonomous)**, and **Focus Academy for Career Enhancement (FACE)** decided to lay down the terms and conditions of the SLA with the following clauses. The terms and conditions are not limited to the following but new terms shall only be added with mutual consent of both the parties.

  
**Dr.K.V.L.Raju**  
**(Principal - MVGR)**  
PRINCIPAL

 MVGR College of Engineering (A)  
VIZIANAGARAM-535005

  
**Mr. Praveen P**  
**(Senior Manager –Business Development)**

### Section 1 - Program and batch details

<b>Full Name of College</b>	Maharaj Vijayaram Gajapathi Raj (MVGR) College of Engineering (Autonomous),
<b>Program Name</b>	Aptitude for Placements : 72 Hours RE-LITE : 6 Hours RE-PNC-2 : 3 Hours RE-PNC-6 : 3 Hours WRTWS: 6 Hours
<b>Total Program Duration (in Days)</b>	30 Days (CRT)
<b>Total Program Duration (in Hours)</b>	180 Hours
<b>Degree and Passing out year of students to be trained</b>	B.Tech 2020
<b>Training Dates</b>	For Batches (1,3,5,7,9,11) - 11,13,15,18,20,22,25,27,29 June and 1,3,5,8,10,12 July For Batches: (2,4,6,8,10,12) - 12,14,17,19,21,24,26,28,30 June and 2,4,6,9,11,13 July
<b>Semester of Study of students to be trained</b>	7 <sup>th</sup> Semester Students
<b>Total No of students attending the training</b>	850
<b>No of batches</b>	12
<b>Session Timings</b>	9 AM to 12 Noon, 1 PM to 4 PM and 4 PM to 5 PM (Practice)

#### **IMPORTANT:**

- Any request for change in training dates needs to be communicated to FACE at-least 7 working days in advance
- Even if communicated 7 working days in advance, FACE is not automatically liable to deliver the service on the revised dates. FACE will re-confirm the possibility of service delivery based on availability of trainers, ease of trainer travel and accommodation and other constraints
- Once the SLA is signed, our Accounts Manager (AM) from **FACE** will be in touch with you to plan finer details of logistics. Details of the Accounts Manager (AM) are:
  - **Name:** Ms. Rekha
  - **Mobile Number:** 8973054080
  - **Email ID:** srm@focusacademy.in

**DECLARATION:** I have read and understood **Section 1 – Program and batch details** and I agree to the same.

  
**Dr.K.V.L.Raju**  
(Principal - MVGR)

  
PRINCIPAL  
MVGR College of Engineering (A)  
VIZIANAGARAM-535005

  
**Mr. Praveen P**  
(Senior Manager –Business  
Development)

## **Section 2 - Billing Terms and Conditions**

<b>Duration of Training Program (in days)</b>	30 Days
<b>Duration of Training Program (in Hours)</b>	180 Hours
<b>Price per Trainer</b>	Rs. 7,000
<b>GST</b>	Rs. 1,260
<b>Total Price per Trainer (inclusive of taxes)</b>	Rs. 8,260
<b>No of students for whom materials will be sent (as per attached batch-list)</b>	850 (Minimum Batch Size)
<b>No of Trainers to be billed</b>	180
<b>Total Contract Value</b>	Rs. 8260 * 180 = 14,86,800
<b>Additional Students</b>	10% of the Batch size with above Terms & Conditions

**NOTE:** After completion of program FACE Finance Manager, Ms. Sindhu will be in touch with the college SPOC for invoicing and payments. SPOC details are:

### **FACE Finance Manager Details**

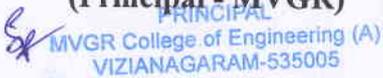
- Name - Mr. Pradeep
- Designation - Finance Manager
- Mobile No - 9688026763
- Email -

### **MVGR College of Engineering(A)- Dean - Training and Placements Details**

- Name - Dr.M.Sunil Prakash
- Designation - Dean T&P
- Mobile No - 9985093219
- Email - deantp@mvgrce.edu.in

**DECLARATION:** I have read and understood **Section 2- Billing Terms and Conditions** and I agree to the same.

  
**Dr.K.V.L.Raju**  
**(Principal - MVGR)**

  
MVGR College of Engineering (A)  
VIZIANAGARAM-535005

  
**Mr. Praveen P**  
**(Senior Manager –Business Development)**

**Section 3 - Payment Schedule - Terms & Conditions**

<b>Advance % Payable</b>	<b>30</b>												
<b>Advance Amount Payable</b>	<b>4,46,040</b>												
<b>Advance Payment Schedule</b>	<b>10-06-2019</b>												
<b>Last date for payment of advance amount (failing which the training will not be delivered)</b>	<b>20-06-2019</b>												
<b>Maximum Credit Period for Balance Payment</b>	30 days from the last date of execution												
<b>Last Date for Balance Payment</b>	<b>NA</b>												
<b>Mode of Payment</b>	By Cheque or DD, favoring <b>Focus 4-D Career Education Pvt. Ltd</b> Payable at Coimbatore												
	OR												
	By NEFT/ RTGS Transfer to:												
	<table border="1"><tr><td>Account Holder Name</td><td>Focus 4-D Career Education Pvt. Ltd.</td></tr><tr><td>Account No</td><td>53109000142765</td></tr><tr><td>Bank Name</td><td>City Union Bank</td></tr><tr><td>Branch Name</td><td>Vilankurichi Branch</td></tr><tr><td>IFSC Code</td><td>CIUB0000053</td></tr><tr><td>PAN No:</td><td>AABCF3266F</td></tr></table>	Account Holder Name	Focus 4-D Career Education Pvt. Ltd.	Account No	53109000142765	Bank Name	City Union Bank	Branch Name	Vilankurichi Branch	IFSC Code	CIUB0000053	PAN No:	AABCF3266F
	Account Holder Name	Focus 4-D Career Education Pvt. Ltd.											
	Account No	53109000142765											
	Bank Name	City Union Bank											
Branch Name	Vilankurichi Branch												
IFSC Code	CIUB0000053												
PAN No:	AABCF3266F												
<b>NOTE:</b> Cash payments will not be accepted													

**DECLARATION:** I have read and understood **Section 3- Payment Schedule - Terms and Conditions** and I agree to the same. I also agree that Disputes if any are subject to jurisdiction of Coimbatore courts only.

  
**Dr.K.V.L.Raju**  
**(Principal - MVGR)**

  
PRINCIPAL  
MVGR College of Engineering (A)  
VIZIANAGARAM-535005

  
**Mr. Praveen P**  
**(Senior Manager –Business  
Development)**

**Section 4 - Travel and Logistics - Terms & Conditions**

<b>Trainer Travel to Vizag</b>	<b>FACE</b> will take care
<b>Local conveyance from port of entry in Vizag to place of stay</b>	<b>FACE</b> will take care
<b>Trainer Accommodation</b>	<b>College</b> will take care
<b>Local Conveyance from place of stay to College and back</b>	<b>College</b> will take care
<b>Food Arrangements (Breakfast, Lunch, Dinner)</b>	<b>College</b> will take care
<b>Materials Printing</b>	<b>FACE</b> will take care
<b>Materials Dispatch</b>	<b>FACE</b> will take care

**DECLARATION:** I have read and understood **Section 4 - Travel & Logistics - Terms and Conditions** and I agree to the same.

  
**Dr.K.V.L.Raju**  
**(Principal - MVGR)**

**PRINCIPAL**  
MVGR College of Engineering (A)  
VIZIANAGARAM-535005

  
**Mr. Praveen P**  
**(Senior Manager –Business Development)**



# Maharaj Vijayaram Gajapathi Raj College of Engineering (Autonomous)

Reaccredited by NBA, NAAC with 'A' Grade of UGC,  
Approved by AICTE, New Delhi, and Permanently Affiliated to JNTU, Kakinada  
Listed U/S 2(f) & 12 (B) of the UGC Act 1956

Date: 18<sup>th</sup> June, 2019

## WORK ORDER

From  
**Maharaj Vijayaram Gajapathi Raj (MVGR)  
College of Engineering**  
Vijayaram Nagar campus, Chintalavalasa,  
Vizianagaram, Andhra Pradesh 535005,

To  
**M/s COIGN Consultants Pvt. Ltd.**  
Near Tarnaka Cross Roads,  
Opp David Memorial College,  
4F11, Ballad Estates, 5<sup>th</sup> Floor,  
Secunderabad, Telangana-500017.

Dear Sir / Madam,

We hereby instruct you to provide a "15 days CRT Technical Training" for the Final year Students of our college. The training should be provided at our college premises as indicated below:

Start Date	11-June-2019	End date	13-July-2019
No. days of training	30 <del>5</del>	No. hrs of training	90
No. students being trained	840	No. batches being trained	12
Unit being charged	Per day, Per Batch	Per unit charge	7500
Total amount	13,50,000	Advance payment	3,37,500

**Note:**

1. The above payment is exclusive of the GST (18%)
2. 25% advance amount should be paid on the fifth day of the training.
3. Balance payment will be cleared within 7 – 10 working days post completion of module.

  
Principal  
MVGR College of Engineering  
PRINCIPAL  
MVGR College of Engineering (A)  
VIZIANAGARAM-535005

Proposal

**'Last Mile –  
Capgemini'**

2020 Batch

**MVGR, Vizianagaram.**

Skills Enhancement  
Placement Readiness  
Proficiency Diagnostics

**Talentio**

Talentio Solutions India Pvt. Ltd.

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## About Talentio

Talentio was founded in Jan 2016 by a team of experienced professionals from the industry who have played key leadership roles in large organizations and have been associated with institutes of repute in various capacities.

Talentio is the fructification of the market need to have access to realistic, measurable, reliable, and industry oriented training programs that deliver results.

Several well-known partner colleges are enjoying the benefit of the virtuous cycle. With better placements, better admissions, better ranking students and a better brand name built on spectacular results, Talentio results!

We unequivocally believe in the positive impact created by placement oriented training programs that leverage our methodology, analytics and market insight as a means to improve students' performance and drive placement effectiveness.

### TALENTIO FOR RESULTS

- BEST EDUCATION SERVICES PROVIDER IN THE ASSISTED PLACEMENTS SPACE
- ASSOCIATED WITH 50+ PREMIUM COLLEGES ACROSS 8 STATES
- PLACED 2500+ STUDENTS FROM 2017 PASSING OUTBATCH
- PLACEMENT RATIOS AS HIGH AS 8:10 FOR OUR FOCUSED PROGRAMS
- TRAINED MORE THAN 10,000 STUDENTS
- CONTENT BANK OF 20,000+ UNIQUE QUESTIONS
- 1,00,000+ MAN HOURS OF TRAININGS DELIVERED

We believe all colleges can do better provided there is a customized program for them based on the specific needs of the students and the evolving hiring criteria of the industry.

### **Reinventing the Education Space:**

Talentio is focused on raising the bar on employability training by redefining the approach and goal post of learning deliverables. In a fragmented market dominated by traditional 'training vendors' and off the shelf operators, Talentio is placed in an incomparable quadrant defined by its output orientation and a model built on delivery of high placement numbers consistently, efficiently and effectively.

Our guiding principles are based on Impact, Value and Learner Centricity. We are your **Results Team** that brings together process, consistency, ownership, predictability, risk-management, technology and market insight among various other components to deliver exceptional results.

Talentio is transforming learning delivery and changing how company specific programs and CRTs are delivered. In the heart is smart analytics and prediction technology that drives high impact learning in classrooms. Continuous Student Diagnostics feeds into Talentio's highly effective Adaptive Curriculum on the lines of our philosophy of transforming learning delivery in colleges.

In our enviable journey for excellence, we continue to build memorable relationships with our learners, institutional management and diverse stakeholders with a national footprint.

## Our Employability Solutions

- Integrated Online & Offline Technical / Non-Technical training programs
- Summative and Formative Online Tests
- Placement aligned Technical & Non-Technical CRT programs
- 4 Years progressive & integrated Technical & Non-Technical CRT program
- Company specific training programs
- Orientation Program for 1<sup>st</sup> Year students

Talentio is an invaluable Training partner every aspirational Institution must have.

## Some of Our Associations

- Andhra Pradesh State Skills Development Corporation
- Anurag Group of Institutions (CVSR), Hyderabad
- Annamacharya Group of Institutions
- CMR Group of Institutions, Hyderabad
- Sir C. R. Reddy Engineering College, Eluru
- CVR College of Engineering, Hyderabad
- Don Bosco Institute of Technology, Bengaluru.
- G Pulla Reddy College of Engineering & Technology, Kurnool
- GMRIT, Razam
- Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad
- GVP College of Engineering, Vizag
- IIIT, Kadapa
- JNTU, Pulivendula
- KL University, Vijayawada
- K Ramakrishnan College of Engineering, Trichy.
- KITS, Warangal
- M Kumarasamy College of Engineering, Karur
- Madanapalli Institute of Technology and Sciences, Madanapalli
- Matrusri Engineering College, Hyderabad
- MVGR College of Engineering, Vizianagaram
- MVSRR, Hyderabad
- PVP Siddhartha Institute of Technology, Vijayawada
- Pragati Engineering College, Surampalem
- Pratyusha Engineering College, Thiruvalluvar
- Shri Vishnu Engineering College for Women, Bhimavaram
- SR Engineering College, Warangal
- SV College of Engineering, Tirupathi
- Vignan University, Guntur

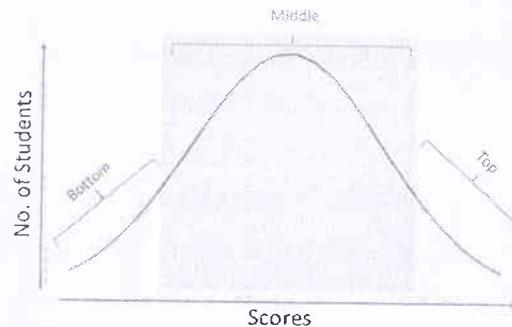
## How we get results

- **Goal Oriented** :

All our programs are outcome based. Our aim is results, not completion of hours.

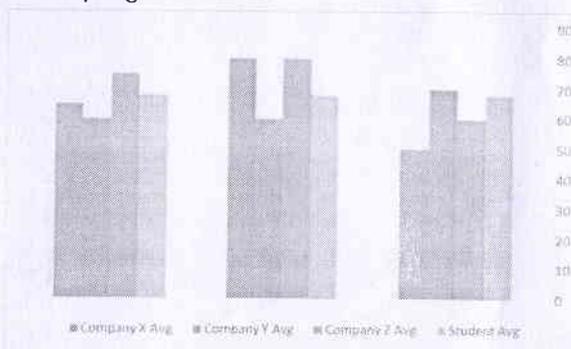
- **Customized and Dynamic :**

Our CRT is customized taking into account the quality of intake, major hiring companies, placement strategy, segregation of students based on needs.



- **Measure Progress** :

Progress is measured at regular intervals. No program is conducted without measuring progress.



- **Identify Gaps** :

Needs are identified based on desired outcome and current status. Focused training strategy for students who are low of employability skills to improve overall placement results.

- **Practice** :

Practice makes a man perfect! We believe in this and that's why practice is an integral part of our programs

- **Length of Training** :

Length of the program is designed based on the outcome and gaps,



- **Daily Training Hours** :

Programs are conducted for 2-3 hours per day. We all know, anything more than that will not be effective.

- **Multiple Phases** :

Our programs are spread across many phases so that the assimilation and retention is better.

## Proposed Program

### 'Last Mile - Capgemini': Company Specific Training for Capgemini for 2020 Batch

A good training program must bring results! This is the only objective we have when we create our programs. That is why all our programs have been a success for all our partner colleges and for us. Following are the highlights of The Last Mile:

- This program is aimed at preparing students for Capgemini, **maximising selection and conversion.**
- Talentio will conduct **8 days of training program.**
- This program is only for the final year students (2020 Batch passout) who are eligible and will appear in the Capgemini.
- This program will cover preparation for all rounds of Capgemini selection process (Technical, Aptitude, Essay Writing)
- The program is designed based on the **need-gap analysis** of the students against the standard of the hiring company.
- The program and course is **designed diligently** to effectively utilize every day of training program in order to create **maximum impact.**
- The program has **daily diagnostics** to check on the progress and to feed the inputs into training

## Cost of the Program

Program	Cost
'Last Mile' : Capgemini Specific Program for 2020 Batch	₹ 12000/-* Trainer/Day

\*GST applicable @18%

## Terms and Conditions

- This special offer is only MVGR College of Engineering, Vizianagaram
- Payments can be made vide Cheque or DD favouring "Talentio Solutions India Pvt. Ltd." payable at Hyderabad or vide NEFT/RTGS to our designated Bank Account.
- Payment Breakup
  - 50% Advance Payment - Before commencement of the program
  - 50% Balance Payment - Within 3 working days after completion of the program.
- Any change in the above could impact and lead to the change in the overall cost of the program.
- Food and Accommodation to be provided by the college.
- College to provide necessary infrastructure for the smooth running of the training program such as labs for assessments, class materials like marker, duster etc.

Incase of any queries/clarifications contact:  
Phanindra

30-Aug-19

# Talentio

Talentio Solutions India Pvt. Ltd

Date: 01/09/2019

To,  
Dr. Sunil Prakash  
Dean, Training & Placements,  
MVGR College of Engineering,  
Vijayaram Nagar campus, Chintalavalasa,  
Vizianagaram, Andhra Pradesh 535005

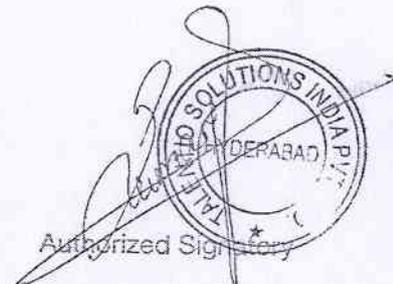
Dear Sir,

Thank you for giving us the opportunity to submit our quotation. As per your request please find the below quotation for the discussed Training Program.

Sl. No	Course Name	No. of Days	No of Trainers	Cost	Total Cost
1	Capgemini Specific Training for 2020 Batch	7	6	₹ 12,000/- +18% GST = ₹ 14160 Trainer/Day	₹ 5,94,720/-

## Terms & Conditions

- Training Dates : 03rd September 2019 to 09th September 2019
- Timings – 6 hrs/batch/day
- Payment Terms - 100% within seven working days after completion of training program.
- Food and Accomodation to be provided by the college.
- Place of Delivery – College Campus

  
Authorized Signatory

भारत सरकार  
अंतरिक्ष विभाग  
**भारतीय सुदूर संवेदन संस्थान**  
4, कालीदास मार्ग, पो. बाक्स सं. 135  
देहरादून- 248 001, भारत  
दूरभाष : +91-135-2524399  
फैक्स : +91-135-2741987, 2748041



Government of India  
Department of Space

**Indian Institute of Remote Sensing**  
4, Kalidas Road, P.B. No. 135,  
Dehradun - 248 001, India  
Telephone : +91-135-2524399  
Fax : +91-135-2741987, 2748041

Dr. Prakash Chauhan  
Director

No.: IIRS/GIT&DL/EDUSAT/2018/36  
Date: July 18, 2018

**विषय:** "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" पर 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम की घोषणा"

**Sub:** Announcement of 36th IIRS Outreach Program on "Basics of Remote Sensing and Digital Image Analysis" commencing from August 20, 2018.

Dear Sir/ Madam,

पृथ्वी अवलोकन (ई.ओ.) भारतीय अन्तरिक्ष अनुसंधान संस्थान का एक महत्वपूर्ण कार्यक्रम है जिसके अंतर्गत पिछले पचास वर्षों में कई उपग्रहों को अन्तरिक्ष में प्रक्षेपण किया गया है। इन उपग्रहों से प्राप्त आकड़ों का उपयोग प्राकृतिक संसाधन व आपदा प्रबंधन में किया जाता है। भारतीय सुदूर संवेदन संस्थान (भा.सु.सं.सं.) भूस्थानिक प्रौद्योगिकी के अंतर्गत शिक्षण, प्रशिक्षण तथा क्षमता संवर्धन को समर्पित एक महत्वपूर्ण संस्थान है। इस संस्थान द्वारा अब तक 35 उपग्रह एवं इंटरनेट आधारित आउटरीच पाठ्यक्रम संचालित किए जा चुके हैं। इन पाठ्यक्रमों से अबतक 806 भारतीय विश्वविद्यालयों/ संस्थानों के करीब 72000 से अधिक प्रतिभागी लाभान्वित हुए हैं। इस कार्यक्रम को आगे बढ़ाते हुए हम सहर्ष 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम को प्रारंभ करने की घोषणा करते हैं। 20 अगस्त, 2018 से प्रारम्भ होने वाला यह कार्यक्रम "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" है। यह कार्यक्रम कार्यरत पेशेवरों तथा छात्रों हेतु लक्षित है। यह कार्यक्रम प्रतिभागियों को अपने कार्यस्थल पर रहते हुये ज्ञान को समृद्ध करने का एक अनूठा अवसर प्रदान करेगा।

The Indian Space Research Organisation (ISRO) has a vibrant Earth Observation (EO) programme since last 50 years with the launch of several satellite missions. The Indian Remote Sensing Satellite (IRS) series of satellites provide space based information for monitoring and management of natural resources and Disaster Management Support. The Indian Institute of Remote Sensing (IIRS) is a premier Institute under ISRO engaged in training, education and capacity building on use of geospatial technology for natural resources monitoring and disaster management since last five decades. The institute has so far conducted 35 Satellite and Internet based Outreach Programmes, benefitting more than 72,000 participants from 806 Indian Universities/ Institutions/User Departments/User Ministries in India. To promote the use of geospatial technology, IIRS announces the 36<sup>th</sup> IIRS Outreach programme on "Basics of Remote Sensing and Digital Image Analysis" commencing on August 20, 2018. The course is targeted to working professionals and students and will provide a unique opportunity to the learners to enhance their knowledge by attending the course at their respective working places.

यह कोर्स तीन मॉड्यूलों में बंटा है रिमोट सेंसिंग और डिजिटल इमेज एनालिसिस, वैश्विक नेविगेशन सैटेलाइट सिस्टम और भौगोलिक सूचना प्रणाली और आरएस और जीआईएस एप्लीकेशन। कोर्स के दौरान पढ़ाये जाने वाले प्रमुख विषयों में रिमोट सेंसिंग, अर्थ अवलोकन सेंसर और प्लेटफॉर्म के बुनियादी सिद्धांत, विभिन्न भूमि कवर सुविधाओं के स्पेक्ट्रल हस्ताक्षर, छवि व्याख्या, थर्मल और माइक्रोवेव रिमोट सेंसिंग, डिजिटल इमेज प्रोसेसिंग, जीपीएस और जीएनएसएस का परिचय, रिसेीवर, प्रसंस्करण विधियों, भौगोलिक सूचना प्रणाली, डाटा बेस, टोपोलॉजी, स्थानिक विश्लेषण और ओपन सोर्स सॉफ्टवेयर और कृषि और मृदा, वानिकी और पारिस्थितिकी, जियोसाइंस और जिओहाजर्ड्स, समुद्री और वायुमंडलीय विज्ञान, शहरी और क्षेत्रीय अध्ययन और जल संसाधन में आरआईएस और जीआईएस एप्लीकेशन आदि सम्मिलित हैं। प्रतिभागी अपनी पसंद के मॉड्यूल या पूरे प्रमाणपत्र पाठ्यक्रम के लिए पंजीकरण कर सकते हैं।

The course consists of three modules namely Remote Sensing and Digital Image Analysis, Global Navigation Satellite System and Geographical Information System and RS and GIS Applications. The major topics covered will include Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Spectral Signature of different land cover features, Image interpretation, Thermal & Microwave Remote Sensing, Digital Image Processing, Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy, Geographic Information System, data bases,

topology, spatial analysis and open source software's and RS and GIS Applications in Agriculture and Soil, Forestry and Ecology, Geoscience and Geohazards, Marine and Atmospheric Sciences, Urban and Regional Studies and Water Resources. **The participants can register for individual module of their choice or the entire certificate course.**

अपने कार्यस्थल से प्रतिदिन डेढ़ घंटा समर्पित करके भूस्तरीय प्रौद्योगिक सीखने का यह एक अनोखा अवसर है। इस पाठ्यक्रम में **निशुल्क** भाग लिया जा सकता है। ए-व्यू सॉफ्टवेयर ([www.aview.in](http://www.aview.in)) का प्रयोग कर इंटरनेट के जरिए कार्यक्रम स्वतंत्र रूप से उपलब्ध हो सकता है। यह कार्यक्रम एनएनआरएमएस, अंतरिक्ष विभाग, और क्षमता निर्माण के लिए भारत सरकार द्वारा प्रायोजित है। पाठ्यक्रम पूर्ण करने पर प्रतिभागियों को आईआईआरएस. इसरो से प्रमाण पत्र के साथ सम्मानित किया जाएगा। यह कार्यक्रम 16:00-17:30 बजे के दौरान प्रतिदिन प्रसारित किया जाएगा। इस कोर्स की घोषणा, विवरणिका की एक प्रति आपके सहयोगियों और आपके विश्वविद्यालय/ संस्थान/ संगठन में परिसंचरण के लिए इसके साथ भेजी जा रही है। यह पाठ्यक्रम यूजी और पीजी छात्रों/ शोधकर्ताओं/ वैज्ञानिक/ तकनीकी कर्मचारियों और इच्छुक व्यक्तियों के लिए उपलब्ध है। इसके व्यापक प्रचार और आपके विश्वविद्यालय/ संस्थान/ संगठन से अधिकतम भागीदारी के लिए आपके समर्थन की आवश्यकता है।

It is a unique opportunity for participants to learn directly from their place of working by devoting an hour and a half each day. The course can be attended with **no cost** to the participants. Programme can be received live through internet by utilizing A-VIEW software ([www.aview.in](http://www.aview.in)) available freely or using live streaming from YouTube. This Programme is sponsored by NNRMS, Department of space, and Government of India for capacity building. The participants who successfully complete the course will be awarded a certificate from IIRS, ISRO. The programme is scheduled during 1600 Hrs.-1730 Hrs. A copy of the announcement brochure of this course is forwarded herewith for your kind perusal and for circulation in your university/institute/organisation. The course is open to UG & PG students/researchers/scientific/technical staff and interested individuals. We need your support for wide publicity and maximum participation from your university/ institute/Organisation.

यदि आपको कार्यक्रम के बारे में और जानकारी की आवश्यकता है, तो कृपया संपर्क करने में संकोच न करें

डॉ. हरीश कर्नाटक, प्रमुख, भू-वेब सेवाएँ, सूचना प्रौद्योगिकी तथा दूरस्थ अधिगम विभाग  
Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

डॉ. पूनम एस तिवारी, कार्यक्रम समन्वयक, आईआईआरएस आउटरीच प्रोग्राम  
Ph. 0135-2524115 (Office), M: +91 9410924417 or email- [poonam@iirs.gov.in](mailto:poonam@iirs.gov.in)

एडीयूसैट स्टूडियो / कंट्रोल रूम [श्री जनार्दन विश्वकर्मा और श्री अशोक घिल्लियाल]  
Ph.: 0135-2524130, email: [dlp@iirs.gov.in](mailto:dlp@iirs.gov.in)

In case you need any further information about the programme, please feel free to contact:

**Dr. Harish Karnatak**, Head, Geoweb Services, IT & Distance Learning Department

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

**Dr. Poonam S. Tiwari**, Programme Coordinator, IIRS Outreach Programme

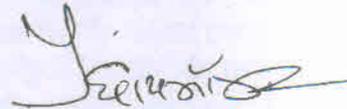
Ph. 0135-2524334 (Office), M: +91 9410924417 or email- [poonam@iirs.gov.in](mailto:poonam@iirs.gov.in)

**EDUSAT Studio/Control Room** [Shri Janardan Vishwakarma & Shri Ashok Ghildiyal]

Ph.: 0135-2524130, email: [dlp@iirs.gov.in](mailto:dlp@iirs.gov.in)

You may also visit IIRS website [http //www.iirs.gov in/Edusat-News](http://www.iirs.gov.in/Edusat-News) for further details.

With regards and best wishes,



(Prakash Chauhan)  
Director

संलग्नक/Encl.: कार्यक्रम विवरणिका तथा अनुसूची/ Course Brochure and Schedule

# MEMORANDUM OF UNDERSTANDING

between

## **MVGR COLLEGE OF ENGINEERING (Autonomous)**

Vizianagaram  
Andhra Pradesh, INDIA

and

## **Geospatial and Environmental Solutions (GES)**

In innovative center of National Institute of Hydrology  
NAD Junction, Visakhapatnam – Andhra Pradesh

### GENERAL

#### Agreement

In order to facilitate industry-institute interaction for technical advancement, to develop academic and industrial relationships and support collaborative research activities, MVGR College of Engineering, hereinafter addressed as MVGR and Geospatial and Environmental Solutions, hereinafter addressed as GES, agree to establish this Memorandum of Understanding (MOU) as a framework for cooperative programs.

### ARTICLE I

#### Faculty Visits and Training

It is agreed that linkages will be strengthened by visit of faculty from MVGR to GES. The purpose of these visits by the faculty is primarily to facilitate the following:

- \* Training of the faculty by member of GES on groundwater flow and solute transport modeling, hydraulic and hydrologic modeling and geophysical investigations

Arrangements for each such visit will be made by MVGR. Purpose, timing and other details concerning these exchanges and short visits in this regard shall be mutually acceptable to both the institutions. It is agreed that information concerning the purpose and duration of the visit by the faculty, the proposed topics of study, details of the personnel visiting and any further details, as required, will be provided to GES by MVGR at least two weeks prior to the proposed visit.

## **ARTICLE II**

### **Student Training**

Further to the above, it is also agreed that GES will support and facilitate visits of groups of students from MVGR. The purpose of these visits by the students is as follows:

- \* Industrial visits at II year level to study and understand functioning of different water and environmental related ecosystems and their impacts on sustainability
- \* Industrial visit at III year level to undertake mini-projects and pilot studies for full-fledged projects

As in the case of Article I, arrangements for each such visit will be made by MVGR in the form of formal letters seeking permission as well as the convenience of Geospatial and Environmental Solutions to send the student groups. Purpose, timing and other details concerning these exchanges shall be mutually acceptable to both the institutions. It is agreed that information concerning the number of students visiting, duration of the visit, the proposed topics of study and any further details, as required, will be provided to GES by MVGR at least two weeks prior to the proposed visit.

## **ARTICLE III**

### **Courses: Seminars, Workshops, Refresher Courses**

It is agreed that MVGR will arrange periodic seminars, workshops and refresher courses in collaboration with GES. The purpose of these courses is to facilitate and maintain on-going Industry-Institute Interaction as well as provide a forum for faculty of MVGR as well as those of institutions in the vicinity to discuss on topics of current interest both to MVGR as well as GES. Experts from GES as well as faculty from MVGR with significant exposure in the topic of interest will coordinate and conduct these courses.

Arrangements for such courses will be made by MVGR in keeping with the convenience of experts from GES. Purpose, timing and other details concerning these courses shall be mutually acceptable to both the institutions. It is agreed that information concerning the duration of the visit, the proposed topics of the course and any further details, as required, will be mutually discussed by MVGR with GES by MVGR at least one month prior to the schedule of the course or workshop.

**ARTICLE IV**  
**Cooperative Research**

It is anticipated that significant opportunities, of which a few have been identified, exist for cooperative research between MVGR and GES. Such clearly beneficial activities may require specific arrangements. In view of the importance of cooperative research, GES will provide necessary support to visiting faculty from MVGR to study research problems at GES. Such problems will be analyzed and solutions suggested by MVGR.

**ARTICLE V**  
**Competence in Consultancy**

It is also anticipated that significant opportunities exist for taking up consultancy works with industries. MVGR has state-of-the-art equipment ideally suited to taking up consultancy work for industries in the area of materials testing, machinability testing, fabrication of complicated parts, dynamic testing or equipment etc. GES will provide necessary assistance and guidance to MVGR to develop such consultancy capabilities initially by working on challenges faced by Geospatial and Environmental Solutions and later extending the expertise gained to other industries.

**ARTICLE VI**  
**Support to ASMK**

Through all of the above endeavours, MVGR hopes to extend full support to GES in meeting the challenges faced by them, Specifically MVGR shall extend themselves in the following area:

Taking up analysis or testing activities as outsourced by GES to supply them with necessary designs, results and analysis

MVGR will train up students in core competencies required by GES so that they can be considered to suitable positions at GES during their recruitment drives

It is hoped that through these activities, MVGR will be able to extend its facilities and capabilities to GES in return for all the technical guidance and support received from them for its development.

**ARTICLE VII**  
**Exchange of Scientific Materials**

Both the collaborating parties agree to exchange as widely as is practicable such items as scientific publications and journals, university calendars, prospectuses, text books, course outlines and reference materials that may be necessary and of use to either party.

**ARTICLE VIII**  
**Duration of Memorandum of Understanding**

The effective date of this MOU shall be 02.11.2018. The MOU shall extend for a period of 3 (Three) years and may be renewed upon mutual written agreement. The MOU may be modified by mutual written agreement. The MOU may be terminated by either GES or by MVGR with notification to the other party six months prior to the effective date of termination.

**ARTICLE IX**  
**Indemnification**

Geospatial and Environmental Solutions and MVGR College of Engineering (MVGR) shall each indemnify and hold harmless the other, its faculty/officers, agents and employees, for any and all liability, damages and costs attributable to the negligent acts or omissions of the indemnifying party, its faculty/officers, agents and employees while acting in the scope of their employment and in furtherance of activities described in this Memorandum of Understanding.

**ARTICLE X**  
**Liability Insurance**

Each party shall maintain its own insurance in amounts deemed appropriate for its operations. Such insurance shall provide coverage for negligent acts, errors, or omissions and provide protection against bodily injury or property damage claims. It is expressly understood that each party shall be solely responsible for its own actions and such insurance shall not extend to protect any other party.

**ARTICLE XI**  
**Conduct**

Each party shall abide by the rules and regulations of the host institution especially in regard to visits by the faculty/students of MVGR to GES.

**ARTICLE XII  
Administration**

The administration of this MOU will be the responsibility of the MVGR College of Engineering (MVGR). Dr. K V L Raju, Principal, MVGR College of Engineering shall be the primary contact at MVGR followed by Dr. P. Markandeya Raju (Professor and Head of Department – Civil), MVGR College of Engineering shall be the secondary contact at MVGR. Dr. L. Surinaidu, CEO, Geospatial and Environmental Solutions, will serve as the primary contact at Geospatial and Environmental Solutions.

In witness whereof the undersigned, representing their respective institutions, hereby sign and approve this Memorandum of Understanding in duplicate, one copy for every signing party.

**SIGNED:**

Geospatial and Environmental Solutions

MVGR College of Engineering



\_\_\_\_\_  
Dr. L. Surinaidu  
CEO  
Geospatial and Environmental Solutions



\_\_\_\_\_  
Dr. K V L Raju  
Principal  
MVGR College of Engineering



Date 02/11/2018



Date 02/11/2018

01/12/2017  
IIT Roorkee

To  
The Principal  
MVGR College of Engg,

Sub: Collaboration with MVGR-reg

Sir,

This is Dogga Raveendhra, CTO, Arka Energies (Pre-Incubated IIT Roorkee startup), which is registered as Zunik Energies Pvt. Ltd. (Pre-Incubated at TIDES, IIT Roorkee and also Startup India recognized Startup). Our profile is attached herewith. We are interested to collaborate with Mr. K.S Ravi Kumar, Associate Professor, EEE Dept., MVGR College of Engg, VZM.

Further we would like to patent our collaborative work with Mr. Ravi Kumar, with in India and abroad. The support can be in the form of payment of patent fees involved and also in purchasing components for the developing lab made/commercial prototype for this patented technology.

We would like to further discuss on the possibilities of working out memorandum of understanding (MOU) between MVGR College of Engineering, Chintalavalasa, Vizianagaram, Andhra Pradesh, INDIA and Zunik Energies Pvt. Ltd. to clearly define the broad scope of interaction between both.

For this we need your support for a mutual win situation for enhancing interaction which the best way to make real engineers who can fulfill power dreams of our nation.

Thanking You.

Dogga Raveendhra  
Founder & CTO  
Zunik Energies Pvt. Ltd.  
I-2, TIDES Business Incubator  
IIT Roorkee



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[www.zunikenergies.com](http://www.zunikenergies.com)



Zunik Energies , I-2, TIDES Business Incubation Centre, IIT Roorkee, Roorkee

## MEMORANDUM OF UNDERSTANDING

between

### M V G R COLLEGE OF ENGINEERING

Chintalavalasa, Vizianagaram  
Andhra Pradesh, INDIA

and

### Zunik Energies Pvt. Ltd.

I-2, Tides Business Incubation Centre, IIT Roorkee,  
UTTARAKHAND - 247667

#### GENERAL

##### Agreement

In order to facilitate industry-institute interaction for technical advancement, to develop academic and industrial relationships and support collaborative research activities, MVGR College of Engineering, hereinafter addressed as MVGR and Zunik Energies Pvt. Ltd., hereinafter addressed as Zunik Energies Pvt. Ltd., agree to establish this Memorandum of Understanding (MOU) as a framework for cooperative programs.

#### ARTICLE I

##### Faculty Visits and Training

It is agreed that linkages will be strengthened by visit of faculty from MVGR to Zunik Energies Pvt. Ltd., The purpose of these visits by the faculty is primarily to facilitate the following:

- \* Training of the faculty by member of Zunik Energies Pvt. Ltd. on Power Electronic Converters design and controller development as well as manufacturing and testing protocols
- \* Training and exposure of faculty to understand practical difficulties encountered in Power Electronic Converters testing or commissioning
- \* Training and exposure of faculty on Power Electronic Converters for Electrical Vehicles and Renewable Energy Applications



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\* Training and exposure of faculty on FPGA, DSP and Micro Controllers for the controlling Power Electronic Converters. Arrangements for each such visit will be made by MVGR. Purpose, timing and other details concerning these exchanges and short visits in this regard shall be mutually acceptable to both the institutions. It is agreed that information concerning the purpose and duration of the visit by the faculty, the proposed topics of study, details of the personnel visiting and any further details, as required, will be provided to Zunik Energies Pvt. Ltd. by MVGR at least two weeks prior to the proposed visit.

## ARTICLE II

### Student Training

Further to the above, it is also agreed that Zunik Energies Pvt. Ltd. will support and facilitate visits of groups of students from MVGR. The purpose of these visits by the students is as follows:

- \* Industrial visits at II-year level to study and understand functioning of an industrial establishment
- \* Industrial visit at III-year level to undertake mini-projects and pilot studies for full-fledged projects
- \* Vocational training in Power Electronic Converters PCB design, modelling and manufacturing to equip students at III year or IV-year levels to acquaint themselves with industrial procedures and operations so as to prepare themselves to face the challenges of the industrial world upon graduation

As in the case of Article I, arrangements for each such visit will be made by MVGR in the form of formal letters seeking permission as well as the convenience of Zunik Energies Pvt. Ltd. to send the student groups. Purpose, timing and other details concerning these exchanges shall be mutually acceptable to both the institutions. It is agreed that information concerning the number of students visiting, duration of the visit, the proposed topics of study and any further details, as required, will be provided to Zunik Energies Pvt. Ltd. by MVGR at least three weeks prior to the proposed visit.

## ARTICLE III

### Courses: Seminars, Workshops, Refresher Courses

It is agreed that MVGR will arrange periodic seminars, workshops and refresher courses in collaboration with Zunik Energies Pvt. Ltd., The purpose



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of these courses is to facilitate and maintain on-going Industry-Institute Interaction as well as provide a forum for faculty of MVGR as well as those of institutions in the vicinity to discuss on topics of current interest both to MVGR as well as Zunik Energies Pvt. Ltd., Experts from Zunik Energies Pvt. Ltd. as well as faculty from MVGR with significant exposure in the topic of interest will coordinate and conduct these courses.

Arrangements for such courses will be made by MVGR in keeping with the convenience of experts from Zunik Energies Pvt. Ltd., Purpose, timing and other details concerning these courses shall be mutually acceptable to both the institutions. It is agreed that information concerning the duration of the visit, the proposed topics of the course and any further details, as required, will be mutually discussed by MVGR with Zunik Energies Pvt. Ltd. by MVGR at least one month prior to the schedule of the course or workshop.

#### ARTICLE IV

##### Cooperative Research

It is anticipated that significant opportunities, of which a few have been identified, exist for cooperative research between MVGR and Zunik Energies Pvt. Ltd., Such clearly beneficial activities may require specific arrangements. In view of the importance of cooperative research, Zunik Energies Pvt. Ltd., will provide necessary support to visiting faculty from MVGR to study research problems at Zunik Energies Pvt. Ltd., Such problems will be analyzed and solutions suggested by MVGR.

#### ARTICLE V

##### Competence in Consultancy

It is also anticipated that significant opportunities exist for taking up consultancy works with industries. MVGR has state-of-the-art equipment ideally suited to taking up consultancy work for industries in the area of Power Electronics and Drives. Zunik Energies Pvt. Ltd. will provide necessary assistance and guidance to MVGR to develop such consultancy capabilities initially by working on challenges faced by Zunik Energies Pvt. Ltd. and later extending the expertise gained to other industries.



## ARTICLE VI

### Support to ASMK

Through all of the above endeavors, MVGR hopes to extend full support to Zunik Energies Pvt. Ltd., in meeting the challenges faced by them, Specifically MVGR shall extend themselves in the following area:

Taking up analysis or testing activities as outsourced by Zunik Energies Pvt. Ltd., to supply them with necessary designs, results and analysis

MVGR will train up students in core competencies required by Zunik Energies Pvt. Ltd. so that they can be considered to suitable positions at Zunik Energies Pvt. Ltd., during their recruitment drives.

It is hoped that through these activities, MVGR will be able to extend it facilities and capabilities to Zunik Energies Pvt. Ltd., in return for all the technical guidance and support received from them for its development.

## ARTICLE VII

### Exchange of Scientific Materials

Both the collaborating parties agree to exchange as widely as is practicable such items as scientific publications and journals, university calendars, prospectuses, text books, course outlines and reference materials that may be necessary and of use to either party.

## ARTICLE VIII

### Duration of Memorandum of Understanding

The effective date of this MOU shall be December 1,2017 The MOU shall extend for a period of 3 (Three) years and may be renewed upon mutual written agreement. The MOU may be modified by mutual written agreement. It may be terminated by either Zunik Energies Pvt. Ltd. or by MVGR with notification to the other party six months prior to the effective date of termination.

## ARTICLE IX

### Indemnification

Zunik Energies Pvt. Ltd. (Zunik Energies Pvt. Ltd.) and MVGR College of Engineering (MVGR) shall each indemnify and hold harmless the other, its faculty/officers, agents and employees, for all liability, damages and costs



attributable to the negligent acts or omissions of the indemnifying party, its faculty/officers, agents and employees while acting in the scope of their employment and in furtherance of activities described in this Memorandum of Understanding.

#### ARTICLE X

##### Liability Insurance

Each party shall maintain its own insurance in amounts deemed appropriate for its operations. Such insurance shall provide coverage for negligent acts, errors, or omissions and provide protection against bodily injury or property damage claims. It is expressly understood that each party shall be solely responsible for its own actions and such insurance shall not extend to protect any other party.

#### ARTICLE XI

##### Conduct

Each party shall abide by the rules and regulations of the host institution especially in regard to visits by the faculty/students of MVGR to Zunik Energies Pvt. Ltd.,

#### ARTICLE XII

##### Administration

The administration of this MOU will be the responsibility of the MVGR College of Engineering (MVGR). Dr. K. V. L. Raju, Principal, MVGR College of Engineering shall be the primary contact at MVGR followed by Dr. Sarat Kumar Sahu, Head of the Dept., Electrical and Electronics Engineering, MVGR College of Engineering, shall be the secondary contact at MVGR. Mr. Dogga Raveendhra, Managing Director, Zunik Energies Pvt. Ltd., will serve as the primary contact at Zunik Energies Pvt. Ltd.

In witness whereof the undersigned, representing their respective institutions, hereby sign and approve this Memorandum of Understanding in duplicate, one copy for every signing party.

#### SIGNED:

**Zunik Energies Pvt. Ltd.**  
FOR ZUNIK ENERGIES PVT. LTD.,

R. Pojitha



D. Raveendhra  
Mg. Director / Director  
Sri. Dogga Raveendhra  
Managing Director  
Zunik Energies Pvt. Ltd.

**MVGR College of Engineering**

Dr. K. V. L. Raju  
Principal  
MVGR College of Engineering



1-919-802-1325



+91-8074357707



+91-8074357707



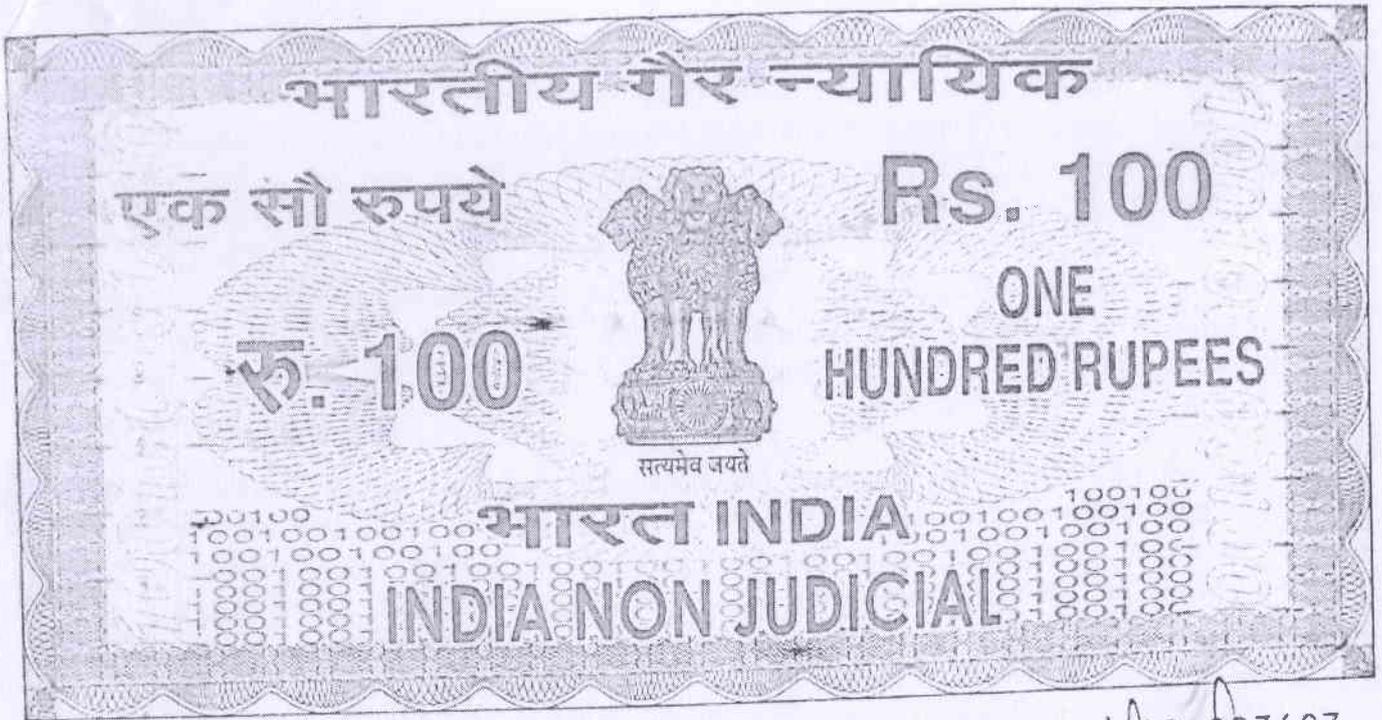
info@zunikenergies.com



www.zunikenergies.com



Zunik Energies , I-2, TIDES Business Incubation Centre, IIT Roorkee, Roorkee



ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

11/07/2019 100/-

Dr. K.V.L. Raju s/o. Krishnam Raju

Principal, MVGR College of Engg, Vizianagaram

CG 997693  
 JOINT SUBREGISTRAR OFFICE  
 VIZIANAGARAM (WEST)

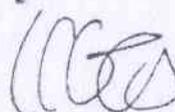
**AGREEMENT**

This Agreement is entered into and executed on this 06<sup>th</sup> day of January, 2020 at Vizianagaram BY AND BETWEEN MVGR College of Engineering (Autonomous), (hereinafter called "MVGR"), represented by its Principal, having its office at Chintalavalasa, Vizianagaram-535005 which expression shall, where the context so admits, be deemed to include its successors, executors and administrators of the ONE PART

AND

Bharat Sanchar Nigam Ltd., (herein after referred to as the "BSNL") a company registered under the Companies Act, 1956, through its Principal General Manager, Visakhapatnam Telecom District having office at 1<sup>st</sup> Floor, BSNL Bhavan, Dabagardens, Visakhapatnam-530020 (which expression, unless it be repugnant to the context or meaning thereof, shall be deemed to mean and include their executors, administrators and assigns), party of the SECOND PART.

WHEREAS, the BSNL Training Point in Visakhapatnam Telecom District has initiated to provide competency based employability enhancement skills for Technical & Management

  
 Dr. K.V.L. RAJU  
 Principal, MVGR College of Engg (A)  
 VIZIANAGARAM-535005



  
 सहायक महा प्रबंधक (ई.सी.एस.)  
 Asst. General Manager (E.S.S.)  
 म.प्र.द.जि.का. / D/o. G.M.T.D.  
 शा.सं.नि.लि. / B.S.N.L.  
 विशाखपट्टणम / VISAKHAPATNAM-20  
 फोन/Ph. No. 0891-2570977

courses & WHEREAS BSNL Training Point in Visakhapatnam Telecom District is required to perform the role and function of providing hands on skill training for students in B.Tech / M.Tech in ECE, IT and Computer Sciences and all its related areas and Management Courses i.e. MBA with specialization in HRM, Marketing & Finance. WHEREAS the First Party has to nominate the number of students for the various programs offered by BSNL-TP and WHEREAS the Second Party has expressed its keen interest and desire to be a key partner in the execution of this program in terms of the objectives of the scheme and policy as highlighted and specified in the said program and particularly in view of the desire and interest of BSNL to join and partner with MVGR in providing competency based skills through its training center in Visakhapatnam.

WHEREAS both parties have held discussions and agreed for collaboration for conducting training Under this MOU and in general for Technical & Management Courses whereby BSNL will impart the requisite training and award credits for the training conducted on its own, to the registered students. THEREFORE, both the parties hereby agree that the Training Center at Visakhapatnam of BSNL, as approved and recognized by BSNL and MVGR from time to time shall be known as an act/perform the role of "Training Providers" in GENERAL for Technical & Management Courses initiated by MVGR on the following terms and conditions:-

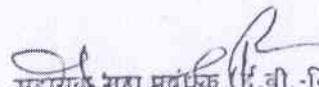
1. That BSNL agrees that Training center in Visakhapatnam set up by BSNL and herein after to be referred as "BSNL-TP" shall act and perform the role of Training Provider to provide hands on skill training in specific sector such as Telecommunications and Management courses and all its related areas.
2. That BSNL agrees and undertake that its "BSNL-TP" conduct skill training in specific sector such as Telecommunications and Management courses and all its related areas and shall perform following functions:
  - a. Announce the schedule of skill training modules for calendar year.
  - b. Register students for the modules and upload the same on BSNL website.
  - c. Conduct the skill modular training.
  - d. Conduct examination/evaluate the student, award the grade indicating completion of Training and uploading the same on the BSNL website.
  - e. The BSNL-TP recognized and approved by BSNL as provided may register students as provided by the MVGR.
3. The BSNL-TP shall also sign a local MOU with MVGR for the purpose and finalize the terms and conditions for such an engagement which shall include the award of credits.
4. The BSNL-TP as specified in the agreement, may take flexible training timing and schedule in consultation with MVGR.



Dr. K.V.L. RAJU  
Principal, MVGR College of Engg (A)  
VISHAKHAPATNAM-535005



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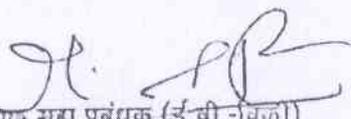


सहायक महा प्रबंधक (ई.बी.-विक्री)  
Asst. General Manager (EB-Sales)  
म.प्र.ई.जि.का. / 0/6. G.M.T.D.  
विशाखपट्टणम / VISAKHAPATNAM-20  
फोन/Ph. No. 0891-2570977

5. The BSNL-TP shall announce and inform through its website, the schedule of the Skill Modules it plans to offer in the academic year concerned for the information of the prospective students and it shall accept the students as provided by MVGR.
6. The MVGR faculty shall offer their services to BSNL as per the skillsets requirement for the framing of On-Campus Courses and also modification of Internship Curriculum as per the Industry requirement.
7. The BSNL-TP will provide the required information for MVGR to do data analytics and in turn offers the market survey details to the BSNL.
8. The BSNL-TP will conduct appropriate training sessions as per the following pedagogy.
  - a) These various programs on different topics under this project will focus on practical hands-on training in field / practicals supplemented with structured academic content that shall be provided online and may be supplemented with appropriate theory sessions to the students of MVGR in Technical & Management streams.
  - b) Practical sessions shall be held in flex-mode that shall expose the students to various Telecom equipment in terms of their operations.
  - c) Academic content shall focus on the various operational procedures / facets of the Telecom equipment / technologies present in the BSNL network related to the practical sessions in an attempt to provide the student with high end equipment handling practical skills as opposed to rote learning.
  - d) Academic Structure of Programs:
    - i. BSNL Certified Courses for Engineering Stream: The complete spectrum of Telecom practical skill learning shall be divided into 7 modules. The duration of the skill-part of the program in BSNL set-ups/training centers shall be incorporated into three academic semesters of conventional engineering education B-Tech / M. Tech (ECE, IT & Computer Science), starting with 5<sup>th</sup> semester
    - ii. INTERNSHIP/Project (6 weeks):
    - iii. INTERNSHIP/Project (2 weeks):
    - iv. Online Certificate Program (8 weeks) :  
This program is offered mainly on Telecom related topics: Broadband Technology, Digital Switching Systems, Digital Transmission Systems, IP Networking and Cyber Security, Mobile Communications, Optical Fiber Technology, Telecom Support Infrastructure.
    - v. Seminar:
    - vi. Industrial visit:

  
Dr. K.V.L. RAJU  
Principal, MVGR College of Engg (A)  
VIZIANAGARAM-535005



  
सहायक महा प्रबंधक (ई.बी.सेल्स)  
Asst. General Manager (EB Sales)  
म.प्र.द.जि.का. / O/o. G.M.T.D.  
जि.स.जि.लि. / BSNL  
विशाखपट्टणम /VISAKHAPATNAM-20  
फोन/Ph. No. 0891-2570977

## MANAGEMENT STREAM:

*MBA (Finance, HRM & Marketing specialization)*

### 1. INTERNSHIP/Project

However, the new courses will be designed in accordance with the demand from MVGR administration and fee also decided in negotiation with both parties accordingly

- a) In brief, the training sessions shall introduce the trainee to various planning and operational aspects, e.g. subscriber creation, route creations, network optimization, network performance monitoring, fault rectification, traffic reporting, network planning and dimensioning, etc. And in management perspective include personality management, marketing planning strategy etc.
- b) The online content / theory sessions provided shall support material (soft copy) for the practical sessions in terms of descriptions and explanations obtained from our equipment manuals. Normally, it shall not address theoretical concepts that students learn as part of communication engineering.
- c) In addition to that an overview on improvement of communication skills, soft skills and preparation of curriculum vita etc, will be imparted as an additional advantage.

#### d) FORCE MAJEURE:

If at any time, during the continuation of this agreement, the performance in whole or in part, by other party, of any obligation under this is prevented or delayed, by reasons of war, or hostility, acts of public enemy, civic commotion, sabotage, act of state or direction from statutory authority, explosion, epidemic, quarantine restriction, strikes and lock-outs, fire, floods, natural calamities or any act of God (hereinafter referred to as event), provided notice of happenings of any such events is given by the effected party to the other within 7 calendar days from the date of occurrence thereof, neither party shall, by reasons of such events be entitled to terminate the agreement, nor shall other party have any such claims for damages against the other in respect of such nonperformance or delay in performance. Provided service under the MOU shall be resumed as soon as practicable, after such event comes to an end or ceases to exist. The decision of BSNL as to whether service may be so resume (at the time frame within which the service may be resume) or not, shall be final and conclusive. However, the Force Majeure events noted above will not in anywhere cause extension in the period of the MOU.

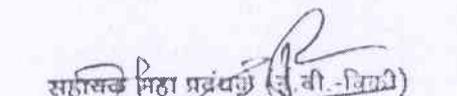
#### e) Dispute resolution and arbitration:

- i) In case of dispute there shall be an arbitration committee comprising of representative/s nominated by Board of Management, MVGR College of Engineering, Vizianagaram and representative/s nominated by Head of

  
Dr. K.V.L. RAJU

Principal, MVGR College of Engg (A)  
VIZIANAGARAM-535005



  
सहायक महा प्रबंधक (ई.वी.-विप्री)  
Asst. General Manager (EP Sales)  
म.प्र.द.वि.का / O/o. G.M. 'D'.  
विशाखापूरम / VISAAPURM  
फोन/Ph. No. 0891-257677

Visakhapatnam BSNL telecom district, Visakhapatnam. The decision of the arbitration committee shall be binding on both parties.

ii) No party shall be entitled to go to the court of law except otherwise it is advised by the arbitration committee. However, in all such cases jurisdiction of court will be in Visakhapatnam only.

## 2. Duration of the Program and Fee for the courses:

- a. Fee for BSNL Certified course: Fee shall be limited to and not lesser than Rs.10,000 + GST per semester per student totaling to Rs. 30,000 + GST per student across the three semesters.
- b. Fee for Internship (2 weeks) course: Fee shall be limited to and not lesser than Rs.2,500 + GST.
- c. Fee for Internship (6 weeks) course: Fee shall be limited to and not lesser than Rs.6,000 + GST.
- d. Fee for Online certificate program course: Fee shall be limited to and not lesser than Rs.5,000 + GST.
- e. Fee for Seminar: Nomination of faculty from BSNL at free of cost (for MOU universities/ colleges only)
- f. Fee for Industrial visit: Offered at free of cost (for MOU universities/ colleges only).
- g. Fee for MBA (Finance, HRM & Marketing specialization) :  
Fee shall be limited to Rs.4000 + GST (for 4/6/8 weeks).

In addition to that, field training will be given to the Management students by utilizing their services at front end offices (Customer Service Centers), Exhibitions and Road shows being conducted by BSNL as and when required.

## 3. Revenue sharing:

For On-Campus training (Certified courses, Internship training and Project work) revenue will be shared on 70:30 (BSNL: MVGR). MVGR will arrange accommodation and required facilities to conduct training classes at the college premises and practicals will be conducted at BSNL premises.

Note: Taxes as per the prevailing rates. Courses fee will be reviewed / enhanced as per the BSNL corporate office guidelines.

## 4. Relevant Documents

A Comprehensive report (Attendance /Evaluation etc.) of the training shall be furnished by BSNL TP, Visakhapatnam to MVGR College of Engineering.

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Dr. K.V.L. RAJU  
Principal, MVGR College of Engg (A)  
VIZIANAGARAM-535605



सहायक महा प्रबंधक (ई.पी. सेल)

Asst. General Manager (EP Sales)  
अ.प्र.सू.जि.को. / C/o. G.M.T.D.  
विशाखापट्टणम / B.S.N.L.  
विशाखापट्टणम / VISAKHAPATNAM-20  
फोन/Ph. No. 0891-2570277

5. PAYMENT TERMS:

Payment of the entire amount (Course Fee) will be made directly by the MVGR College of Engineering to TRAINING POINT, VELAMPETA, VISAKHAPATNAM, BSNL in the form of Cash/draft drawn in favor of "A.O. (Cash) O/o BSNL, VISAKHAPATNAM", payable at Visakhapatnam before the commencement of Training Program. Amount deposited cannot be refunded under any circumstances.

6. Processing Methodology

- MVGR may inspect the training programs randomly by authorized persons and binding on BSNL TP, Visakhapatnam to extend all support to MVGR, Vizianagaram.
- BSNL TP, Visakhapatnam will rectify any shortcomings observed during the visit on an immediate basis.

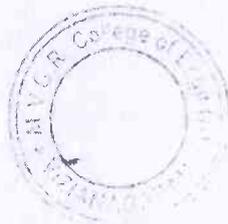
A summary of the all programs that shall be delivered under this agreement are as per schedule II.

- The BSNL - TP will evaluate the students for the Training Skills and award grades and such grade sheet be submitted to the MVGR.
- The BSNL - TP shall maintain a record of the registered students and certificates issued and upload the same on the BSNL web portal.
- No Confidentiality: There shall not be any confidentiality of any information disclosed to by both parties to each other, either in operationalizing this agreement or for the purposes of implementing this agreement. The information sought under Right to Information Act or otherwise by any student, shall be promptly made available.
- The BSNL agrees and undertakes that the BSNL - TP as recognized and approved by MVGR, shall act as Training Provider in terms of the agreement signed by them with the MVGR and the agreement to be signed between the MVGR and the Training Provider shall provide the details regarding the schedule of operation, in order to protect the interest of students and all concerned stakeholders.
- The BSNL shall participate, operate and execute the scheme strictly in accordance with the scheme in GENERAL for Technical & Management Courses initiated by MVGR and shall not indulge in any violation of the scheme.
- Both the parties shall indemnify and keep the other party indemnified and harmless against any and all claims, actions, proceedings by third party (including all costs, expenses, damages / losses) arising out of or in connection with this MOU due to breach of any provisions of this MOU by such party or as a result of any act of negligence / omission or commission on part of such party and / or its employees, agents etc.
- The present agreement can be terminated by the MVGR College of Engineering by giving a notice of one month to BSNL without assigning any reason in this regard and the BSNL shall

6

  
Dr. K.V.L. RAJU

Principal, MVGR College of Engg (A)  
VIZIANAGARAM-535005



सहायक महा प्रबंधक (इंजीनियरिंग-विभागी)  
Asst. General Manager (ER-Sales)  
भ.प्र.द. वि.सं. / O/o G.M. P.D.  
विशाखापट्टणम / VISAKHAPATNAM  
फोन/Ph. No. 0891-2

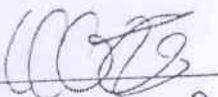
have no claim against MVGR and its officials on account of termination of such agreement. However, the responsibilities and duties of both parties in respect of the common students already registered shall not end with the termination of the agreement, and these will remain valid in totality until completion of evaluation of the already registered students and reporting of their results by both parties.

14. Effective Date:

This agreement is effective from the date signed by both the parties will be valid for a period of FIVE years until determined, suspended or terminated earlier.

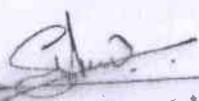
IN WITNESS WHEREOF, the parties hereto, each acting under due and proper authority, have executed this mutually binding Memorandum of Understanding as of the date first written above.

For MVGR

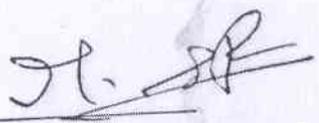
Signed:   
Name: Dr. K.V.L. Raju  
Title: Principal  
Date: 06/01/2020  
Dr. K.V.L. RAJU  
Principal, MVGR College of Engg (A)  
VIZIANAGARAM-535005



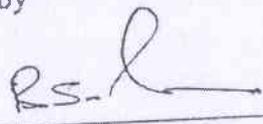
1) Witnessed by

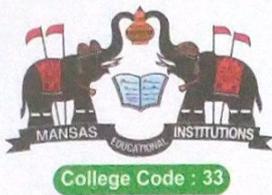
Signature:   
Name: Dr. M. Sunil Prakash.  
Date: 06/01/2020

For BSNL

Signed:   
Name: M. SATYA PRASAD  
Title: AGM BSNL  
Date: 06/01/2020  
सहायक महाप्रबंधक (ई.बी.-प्रिजी)  
Asst. General Manager (EE-Sales)  
म.प्र.द. जि.का. / O/o. G.M.T.D.  
भा.सं.नि.वि. / B.S.N.L.  
विशाखपट्टणम / VISAKHAP  
फोन/Ph. No. 089- 20

2) Witnessed by

Signature:   
Name: B.S. SRINIVASA RAO  
Date: 06/01/2020



Since 1997

# MVGR College of Engineering (Autonomous)

VIJAYARAM NAGAR CAMPUS, CHINTALAVALLASA VIZIANAGARAM-535 005

Phone : 08922-241199, 241732, e-mail : info@mvgrce.edu.in

Website : www.mvgrce.edu.in

To  
Royal Academy of Engineering  
UK

Date: 25.01.2018

Application Title: Making "Deep Learning and AI skills" mainstream in India to fulfil trilateral needs of entrepreneurship, Industry-academia partnership and application-inspired Engineering Research

We confirm our Support, partnership and collaboration for the Application made by Prof. Deepak Garg of Bennett University.

The objectives of the project are of great relevance to us because it is unique in its mission and plans. Our institution is aspiring to inculcate this technology for the benefit of our stakeholders and the country.

We are pleased and excited to work with Prof. Garg for successfully executing this project. We understand that Bennett University has a great supercomputing infrastructure and accomplished faculty, which will be of high value for this engagement. Our faculty will get trained on futuristic technologies which in turn will help us to train our students. After that we will be able to start a research group who will follow up these activities with projects, publications etc. This will help us in connecting with the industry and start-ups.

We are happy to know that we have been chosen as a lead institution in our zone. We will support the project in terms of manpower, local support and infrastructure. We will nominate five of our good faculty to get trained, set up a research group. We will support faculty exchange, student interns or other similar offerings required for the project. Our facilities can be used to hold workshops for Tier 2 and Tier 3 Institutions to spread the learning to remote institutions of the country.

MVGR made its start with 4 departments and 200 students in the year 1997. Today it offers 7 Under Graduate Programs and 7 Post Graduate Programs in Engineering in addition to a program in Management Studies with a total student intake of 1128 and total student strength of 4416. The institute has also been recognized as Research Centre for the Departments of Chemical, Civil, Mathematics, Computer Science and Engineering (CSE) and Mechanical Engineering (MECH) by the affiliating university, JNT University Kakinada. Among the total strength of about 268 faculty, 80 of them are holding doctoral degrees and many others are pursuing PhD actively. The Institution is actively involved in Research in the areas of Microwave and Antenna Technology, Machine Tools, Water Technology, Hydrological Modeling etc. Details of our Institution can be found at website: [www.mvgrce.com](http://www.mvgrce.com)

(Dr.K.V.L.RAJU)

**Dr. K.V.L. RAJU**  
Principal, MVGR College of Engg (A)  
VIZIANAGARAM-535005

# NVIDIA-BENNETT RESEARCH CENTRE FOR ARTIFICIAL INTELLIGENCE

*Prof. Deepak Garg*

Head : NVIDIA-Bennett Research Centre for Artificial Intelligence

[www.gdeepak.com](http://www.gdeepak.com)



**BENNETT**  
UNIVERSITY  
TIMES OF INDIA GROUP

Date : 02-04-2018

Dear Dr. K.V.L. Raju  
Principal, MVGR College of Engineering, Vizianagaram, Andhra Pradesh (India)

It is my pleasure to inform that Royal Academy of Engineering, UK has sanctioned a project titled *"Making Deep Learning and AI skills mainstream in India to fulfil trilateral needs of entrepreneurship, Industry-academia partnership and application-inspired Engineering Research"* worth £ 3,39,000 GBP. The project start date is 02 April, 2018 and end date is 30 April, 2020.

University College London and Brunel University are our UK partners. NVIDIA, Videoken, Edvantics and AWS Educate unit of Amazon are our Industry Partners.

As per the project structure there are Zonal Partners spread across different states of India, who will be lead institution for 10 more institutions in their surrounding geographical area. As part of this Initiative a five member research group on AI will be established with planned and defined outcomes.

We appreciate the letter of support given by your institution. The obligations and benefits of each Zonal partner are being circulated in a separate sheet.

This document notifies your institution as a Zonal Partner and Dr. Nagesh Vadaparathi as Lead Contact from your institution.

Any change in Lead Contact should be duly informed. Any defaulting behaviour on key aspects of the projects may lead to the cancellation of Zonal Partner status.

We are continuously trying to further upscale the project in terms of funding, partners and resources. Your continuous involvement will be key to making this project as a key milestone in Artificial Intelligence Revolution in India and also enable your institution to excel.

With sincere regards

Prof. Deepak Garg

**Title:** Making Deep Learning and AI skills mainstream in India to fulfil trilateral needs of entrepreneurship, Industry-academia partnership and application-inspired Engineering Research

**Abstract**

Project will train 2500 faculty of 250 institutions in India through 25 Lead institutions chosen from different Geographic regions of the country. 25 institutions will follow up with a research group, which will be mentored to do short and long term research in the area of Machine Learning. Start-ups and industry involved in the Artificial Intelligence related work will partner for providing application-inspired ideas and absorbing the trained graduates of these institutions. Project has the potential to change the landscape of AI Research in India. Due to the Interdisciplinary nature of applications in this domain, the impact will percolate to all the Engineering departments of the institutions. Outcome of the project will be tangible in terms of quality manpower for the skill-scare industry and strategic partnership between industry-academia apart from few spin-offs due to this initiative.

**Keywords:** Machine Learning, Artificial Intelligence, Deep Learning, Neural Networks, Data Science, Computer Engineering

**Start Date:** 02 April, 2018

**End Date :** 31 March, 2020

**Three main objectives for the exchange.**

1. To make cutting edge skills and supercomputing infrastructure available to the wider community of academicians and researchers through a thoughtfully created network of 25 lead institutions across India.
2. To initiate, sustain and nourish research groups in the area of Artificial Intelligence. Based on the financial inputs by respective institutions, some of them can grow as a good research center.
3. To motivate the learner community for exploiting the potential of start-ups and innovations in this area and connecting them with the real-life problems of that industry is trying to solve.

Overall it will enhance the content, quality, capacity and collaboration of Indian Engineering education ecosystem.

**What is the technical and national context of your collaboration and what makes it unique?**

World is on the cusp of a revolution with regard to new possibilities in AI and Machine Learning. Deep Learning is being used to solve many critical healthcare related issues apart from other important areas that impact society.

India has aspiring young students in thousands of Technical institutions in the country. Due to lack of quality faculty and curriculum design issues many of these students are not able to get access to latest skill sets required by the industry. 2-Tier and 3-Tier Institutions are also looking for hand holding to get started in the latest areas of research and to work with some of the industry in their area.

Bennett University (Lead Institution) is uniquely poised in this domain as it has become the first institution in the country to have a world-class Supercomputing lab with NVIDIA DGX-1 V100 which

is the fastest machine made by NVIDIA for Deep Learning. It also has a very active research group called MISHA (Machine Intelligence for Smart Places and Health Care Applications). University has agreed to share its resources for the benefit of the nation to different stakeholders of Engineering Education. It will in turn help the University to be one of the leaders in AI research in the country.

Industry all over the world is facing huge scarcity of trained manpower in the area of machine intelligence. Companies working in autonomous vehicular industry, Advanced data science, image processing, Video analytics are short of talent. The whole spectrum of applications important for our planet are waiting for new innovations and ideas due to this buzz around deep learning.

The project will help bring India to a prominent place in the field of AI manpower and research.

**What are the expected outcomes and impacts of the project for your Department, University and the wider engineering community and general public in your country?**

#### **Expected Outcomes**

1. 2500 trained people in Artificial Intelligence who in turn will be helping to train around 250000 Students every year.
2. 25 Research Groups working in different critical areas to solve some of the pressing problems in front of mankind.
3. 250 institutions connected with Industry for live projects and helping their students to better prepare for the industry-required skills.
4. Marked improvement in the quality landscape and skill gap which will result in an overall buoyancy in the Indian higher education system to bring it at par with International standards

#### **Impact of the project for Lead department and the University**

1. University will feel obliged and privileged to contribute in the progress of the higher education system of the nation.
2. Department will be poised to occupy the leadership position in the Machine Learning Research across the country.
3. Department and University will be able to create a sustainable network of stakeholders who can be further energized for different initiatives.
4. It will help to bring out quality publications, Thesis and other artefacts of Research.
5. It will help us to further apply for additional funding in the advance areas of Research.
6. It will expose our faculty to the different new ideas, innovations and unexplored Geography.
7. Our association with Industry and UK partners will be further strengthened and will create a long-lasting bonding.

#### **Expectations from the UK Partner**

1. UK partner will be providing Collaborative support in terms of Technical and Research aspects of the project. The expertise of the University in machine learning will help the project to design the content of the training.
2. UK Partner will also help in strategizing the growth of Research Groups in different Lead institutions.
3. UK Partner will visit in one or more of the workshops to interact and be an expert speaker in the workshop.
4. Depending on availability of funds Few people from the Lead institution can visit UK for a wider discussion and can widen the collaboration in other areas and strengthen International Collaboration.

5. UK partner will be involved in Quarterly Web calls for reviewing the progress of the Project.

#### Expectations and benefits from Industry

1. Industry involvement in the project will help to keep the technical content of the workshops to the mark and Industry will be able to pin point any ongoing updatation in the field.
2. Industry will be able to connect with this consortium of institutions for a win-win regarding their Intern or hiring requirements in this skill-scare domain.
3. Industry will support the project with few live projects to enrich the quality of the projects students are doing in the institutions.
4. Industry will get the promotions in all the communications, events, conferences, workshops of the project.
5. Industry will be expected to spare speakers/mentors based on mutual convenience and consent.

This is to certify that Dr. Nagesh Vadaparthi  
from M.V.G.R. College of Engineering (Autonomous)  
has worked in

**NVIDIA Bennett Research Center on Artificial Intelligence**

at Computer Science Engineering Department,

Bennett University, Greater Noida

from 25-02-2019 to 20-03-2019

for Research Sabbatical under the mentorship

of Dr. Tapas Bada.

*Deepak Garg*

Dr. Deepak Garg  
Head Computer Science Engineering

*Suneel Gupta*

Dr. Suneel Gupta  
Sabbatical Coordinator

# EXCEL TRAINING

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Investing In a Better Future

PREPARED FOR:

MVGR COLLEGE OF  
ENGINEERING, VZM

PREPARED BY:

S&S ACADEMY for CA, Vizag

DELIVERED ON:

09/01/2020



## Covering Letter

To

Principal Sir,

MVGR College of Engineering,

Vijayanagaram.

Dear Sri KVL Raju Sir,

We would be thankful to you for providing this opportunity at MVGR colleges of Engineering to offer this course to students. We believe that job oriented skilful training programs would help the students to secure good jobs and perform their job efficiently. We have given complete details of our course as attachment to this covering letter for your kind perusal. The ideal batch size is determined as 30 students for the programme.

The fees for MS Excel programme for a batch of 30 students is quoted below-

<b>Particulars</b>	<b>No of Hours</b>	<b>Total (Rs)</b>
<b>Total number hours (Revised Estimated)</b>	<b>45</b>	<b>1,20,000</b>

Sincerely,

Partner

S&S Academy

**About and Journey of S&S Academy:**

The institution founded by two young Chartered Accountants after working in multinational companies with a motive to provide quality education to commerce students. The institution organizes the coaching classes for CA and CMA students in Visakhapatnam. We have seen that there is huge gap between the skill sets acquired by students and expectation from the prospective employers and understood that in the progressive world the job oriented training programs would help the students to bridge that gap and make them competitive. We have taken an initiative to organize practical training classes with our vast experience which will benefit the students to enhance their skill sets.

**About the course module and approach:**

The course module has been designed such that all students shall get equipped with the essential knowledge requirement of prospective employer. The course will also make the students more skilful and efficient in their job functions.

The initial proposal for providing the practical training classes on MS-Excel and Tally.ERP9 well received and we thank for your kind co-operation and support to make our programs successful. As per our initial meetings and subsequent further discussions, we have finalized the course program which would best serve all MBA students.

The team of two Chartered Accountants and with one support staff will organize this training program at premises of MVGR College of Engineering. The course program and time table of MS Excel has been presented below –

Day	Coverage areas
Day 1	1. Navigation through various excel options, ribbons, tabs and functions in MS Excel and understanding of Quick Access Tool bar, Dialog box and

	<p>Customization, cool tips and tricks in ribbon</p> <ol style="list-style-type: none"> <li>2. Data entry as Text, Numeric, Date, Formula etc. and Date edit, formatting, alignment, Fonts, size etc.</li> <li>3. Selecting cells/ranges , Merge, Split or delete cells, wrap text, Moving cells/ ranges, Filter and Custom Filter</li> <li>4. Find &amp; Replace, Paste Special options, Moving/copying sheets, Adding/deleting work books</li> <li>5. Freeze panes, Comparison work sheets side by side, Hiding/un-hiding sheets, Protecting workbook , Sorting the data, Filters, Drag and Drop, Auto fill data, Custom fill data and Flash fill data</li> <li>6. Relative references v. Absolute references, Formulas v. Functions – Rules and Procedures</li> <li>7. How to use commands, arguments etc. Understanding of various charts, chart layout, style etc. Data bars, Colour scales and Icon sets using Conditional formatting</li> <li>8. Types of Sparklines, design and changes</li> </ol>
Day 2	<ol style="list-style-type: none"> <li>1. Sum, Sumif, Sumifs, Sumproduct, Autosum, 3D Sum Functions etc.</li> <li>2. Count, counta, Countif, Countblank Functions etc.</li> <li>3. Average, Averagea, Averageif, Averageifs Functions etc.</li> <li>4. Minimum, Maximum, Large, Small Functions etc.</li> <li>5. And, OR, NOT, TRUE, FALSE, IF Function, IFERROR Function, IS Function etc.</li> <li>6. Vlookup, Hlookup Functions and Choose function</li> <li>7. Vlook-up v. Index Match</li> <li>8. Tranpose, Match, Offset, Hyperlink, etc.</li> <li>9. Goal seek Functions</li> </ol>
Day 3	<ol style="list-style-type: none"> <li>1. Creating Pivot Table, Refreshing data</li> <li>2. Filters, Selection, un-selection, grouping and ungrouping in Pivot table</li> <li>3. Pivot Charts creation and auto updation</li> </ol>

	<ol style="list-style-type: none"> <li>4. Advanced Pivot Table – Calculated Fields, Relations etc.</li> <li>5. Day, Hour, Date, Datevalue, Weekday, Network days, workday functions</li> <li>6. Compare List, Get unique list, Get Close Match, Get last value of list, Last occurrence of item</li> <li>7. Count number of words, Extract user name from email, Extract data using drop down list</li> </ol>
Day 4	<ol style="list-style-type: none"> <li>1. Creating named ranges, managing named ranges &amp; creating dynamic named ranges using OFFSET and INDEX Formulas</li> <li>2. Data validation criteria, Input Message, Circle invalid entries, Dependent validations, Disguise numbers as text and creating dynamic drop down</li> <li>3. Formulas in conditional formatting</li> <li>4. Creating dynamic search</li> <li>5. Adding, modifying and deleting comments in Excel</li> <li>6. Gauge, Water fall, Gantt, Waffle, Pareto Charts etc.</li> <li>7. Dynamic Charts, Dynamic Target Line etc.</li> </ol>
Day 5	<ol style="list-style-type: none"> <li>1. Sorting or analysing data with different case studies using Goal seek, Data Table , Scenario Manager etc.</li> <li>2. Problem solving with different powerful array formulas</li> <li>3. Import of data from Word, XML, CSV file, MS Access, SQL data base etc.</li> <li>4. Absolute References v. Relatives references</li> <li>5. Recording and running Macros, Saving Macros, Importing Macros as add-in &amp; Decoding Macros</li> <li>6. Introduction to Visual Basic Editor</li> </ol>
Day 6	<ol style="list-style-type: none"> <li>1. Pooling the data from source file and auto updation on real time basis</li> <li>2. Creation of excel templates and preparation/analysis of data using templates</li> <li>3. Ratio, Trend, Comparison analysis using Advanced Excel</li> </ol>

	<ol style="list-style-type: none"><li>4. How to use Formula auditing and its techniques</li><li>5. Preparation of Financial statements with Advanced Excel tools and analysis of Financial statements</li></ol>
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We will provide the requisite the course material and assignments for the purpose of this course. We will conduct one pre-assessment test at the beginning of the course and one final assessment test at the end of the course. The students will be awarded a certificate on completion of this course and after successful passing the final assessment test.

**Financial terms:**

We are quoting the following fees for our professional services and keeping in mind the benefits of these courses to students and our long-term relations with MVGR colleges, the fees quoted below are negotiable.

Total training hours including the pre and post assessment test (estimated) for the course is 45 Hours for a batch size of **30 students**. We would like to quote fees of Rs. 1,500 each for Chartered Accountant per hour i.e 3,000 per hour for two trainers and no separate fees for support staff. Total fees proposed for batch of 30 students is Rs. 1,35,000/-. We have turnover less than threshold limit and accordingly, will not charge GST separately.

We look forward for your support and long term association.

Regards,

Partner  
S&S Academy

# 2018-19

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**MAHARAJ VIJAYARAM GAPATHI RAJ COLLEGE OF ENGINEERING(AUTONOMOUS)**

Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram-535005, Andhra Pradesh

**Accredited by NAAC with 'A' Grade & Listed u/s 2(f) & 12(B) of UGC**

**(Approved by AICTE, New Delhi and Permanently Affiliated by JNTUK-Kakinada)**

NBA Accredited UG Courses: B.Tech(MEC), B.Tech(CIV), B.Tech(EEE), B.Tech(ECE), B.Tech(CSE), B.Tech(IT),  
B.Tech(MEC) & B.Tech(CHE) and PG Course: MBA



# MVGR College of Engineering (Autonomous)

Since 1997

VIJAYARAM NAGAR CAMPUS, CHINTALVALASA VIZIANAGARAM-535 005

Phone : 08922-241199, 241732, e-mail : info@mvgrce.edu.in

Website : www.mvgrce.edu.in

Date: 21/09/2018

PO No:

To,  
Talentio Solutions India Pvt. Ltd.  
5<sup>th</sup> Floor, Mayfair Building, SP Road  
Begumpet, Hyderabad - 500 003

Dear Sir,

Further to your quote we are pleased to confirm our order as per details given below:

Sl. No	Course Name	No. of Students	No. of Days	No of Trainers	Cost	Total Cost
1	Capgemini Specific Program for 4 <sup>th</sup> Year 2019 Batch	420	8	5	₹ 12000/- Trainer/Day + 18% GST = ₹14,160	₹ 566,400 /-

## Terms & Conditions

- Training Dates : 22<sup>nd</sup> September 2018 to 29<sup>th</sup> September 2018
- Timings - 6 hrs/batch/day
- Accommodation and Food is provided by the college.
- Payment Terms - 50% before commencement of the program.  
- 50% after completion of the program.
- Place of Delivery - College Campus



Received - Copy  
*[Signature]*  
22/09/18

*[Signature]*  
PRINCIPAL  
MVGR College of Engineering (Autonomous)

SERVICE AGREEMENT

This SERVICE AGREEMENT is made and entered into this 12<sup>th</sup> May, 2018.

BY AND BETWEEN

Conduira Education & Training Services Private Limited, a company incorporated under the [Indian] Companies Act, 1956, having its registered office at Vaibhav Enclave, Plot- 83, Arunodaya Complex, 1-98/7/3, Madhapur, Hyderabad - 500 081 (hereinafter referred to as 'CETS', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and assigns) of the FIRST PART;

AND

MVGR College of Engineering, Vizianagaram organized under the Indian Laws having its principal place of business at Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram, Andhra Pradesh- 535005, INDIA (hereinafter referred to as 'Member', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and permitted assigns) of the SECOND PART.

(CETS and Member are hereinafter collectively referred to as "the Parties" and severally as "Party")  
WHEREAS CETS is inter alia in the business of providing e-learning solutions and is responsible for the functioning of its websites [www.conduira.com](http://www.conduira.com) and [www.conduiraonline.com](http://www.conduiraonline.com).

WHEREAS Member is in the business of 'Education Provider' and is desirous of taking service from CETS as described here under, on the terms agreed and contained herein;

WHEREAS the Parties intend to facilitate CETS's e-learning solution

  
PRINCIPAL

MVGR College of Engineering (A)  
VIZIANAGARAM-535005

Ph: (0891) 2555123

E-mail: [info@conduira.com](mailto:info@conduira.com)

  
www.conduira.com  
  
Conduira  
Education & Training  
Services Private Limited  
Ph/Fax: (0891) 2714085  
www.conduira.com

NOW, THEREFORE, IN CONSIDERATION OF THE PROMISES AND THE MUTUAL COVENANTS, AGREEMENT HERINAFTER SET FORTH, THE PARTIES INTENDING TO BE LEGALLY BOUND, HEREBY AGREE AS FOLLOWS:

**1. SERVICE DETAILS:**

The details of the service that Member has agreed to take from CETS are as follows ("Service"):

Member Name :	MVGR College of Engineering, Vizianagaram
GST No:	
PAN No:	
Service:	Access to CETS' <a href="http://conduiraonline.com">conduiraonline.com</a> services as elaborated below
Start Date :	14/05/2018
End Date :	13/05/2019
Number of Logins	800

Item#	Year	Price	Product & Features Included
1.	2019	Rs. 677.966 + GST	Attached herein as Annexure A

Price of Service (per login)	Rs. 677.966+ GST
Value of Service (for minimum 800 logins)*	Rs. 5,42,373/-
Add: GST (as per GOI norms, 18%)	Rs. 97,627/-
<b>Total Invoice value (including GST for 800 logins)</b>	<b>Rs. 6,40,000/-</b>

\*in case of any increase in the number of logins, the total value of invoice would be computed by CETS at the above agreed price of service per login, for the final number of logins provided by CETS.

**2. PRICE:**

In consideration of the Service as per Clause 1 above, the Member agrees to pay to CETS the amount as agreed in Clause 4 (a) below. This pricing applies to the current service offering only and may be subject to revision for subsequent transactions.

  
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VIZIANAGARAM-535005

  
2555123  
[www.conduira.com](http://www.conduira.com)  
**Conduira**  
Education & Training  
Services Private Limited

**3. TERM:**

As mentioned in Annexure A

**4. PAYMENT TERMS:**

(a) The Member shall pay the Total Price to CETS, as per the following payment schedule:

Payment Due Date	Amount Payable
25-05-2018	Rs. 6,40,000/-

(All payments to be made in favor of "Conduira Education & Training Services Private Limited")

(b) An invoice for the Total Price will be issued by CETS to the Member within 7 days of signing of this Agreement. This would be sent to the above-mentioned address unless otherwise a different address for billing is specified by Member under section "Member's Address for Invoicing/Correspondence" herein below and shall be payable as per the aforesaid payment terms. All invoices are payable to CETS in full, on or before the due date of the invoice as per the said payment terms. In the event any payment is not made within the said period, CETS shall, without prejudice to its other rights under this Agreement or in law, have the right to terminate this Agreement and / or deactivate Member's account without any liability to Member.

**Member's Address for Invoicing / Correspondence:**

MVGR College of Engineering

Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram, Andhra Pradesh- 535005

**Contact Name:** Dr. Sunil Prakash

**Email:** deantp@mvgrce.edu.in

**Tel-** 9985093219

  
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VIZIANAGARAM-535005

  
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Education & Training  
Services Private Limited

**5. IMPLEMENTATION AND TRAINING:**

- (a) CETS may either through its officials or authorized representative formally visit the Member's office premises for implementation and / or for any other service purpose.
- (b) CETS would provide the necessary training for the moderators selected by the Member for successful implementation of the Service at the start of the program. This training would include how to manage moderator and student logins, manage the workflow, and escalate issues to CETS as detailed in Clause 7(i).

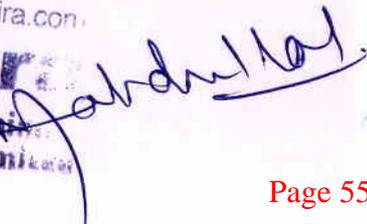
**6. CETS' OBLIGATION:**

- (a) To provide online customized platform to the Member on [www.conduiraonline.com](http://www.conduiraonline.com) (Website)
- (b) To assist Member for online implementation of e-learning solution for registered users as per the agreed Day Plan.
- (c) Provide the following assistance to Member on issues raised as per Clause 7 (i) related to the implementation of e-learning solutions.
  - (i) Acknowledge the messages related to problem within 12 working-hours of their receipt from the Members
  - (ii) Address the Member's issues within 48 working-hours of the above acknowledgment

**7. MEMBER'S OBLIGATION:**

- (a) Shall provide CETS the name of its authorized representative who shall serve as single point of contact with CETS.
- (b) Shall provide the information sought by CETS in requisite format of all users in the Admin Module of [www.conduiraonline.com](http://www.conduiraonline.com) to provide login facility to the members.
- (c) Shall be responsible for appropriate use of the Services subscribed under this Agreement, and Terms & Conditions mentioned in [www.conduiraonline.com](http://www.conduiraonline.com).
- (d) Undertakes that the Services subscribed by it under this Agreement is solely for the purpose of its proper appropriation to the users and/or candidates (its own students as indicated by this agreement) and not for its commercial use / purpose.
- (e) Undertakes that there would be no unauthorized/fraudulent use of user content: Member

  
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255512  
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Education & Training  
Services Private Limited  


shall ensure the usage of content for lawful purposes and only for the purposes as permitted under the scope of this Agreement. Promotion of any illegal activity or marketing of products and other service purposes or spamming of the content by it except for the facilitation of services under this Agreement is prohibited. CETS shall have the sole right to decide as to what constitutes as a breach of these requirements by Member.

- (f) Member shall raise any operational issue hindering the implementation of the Service to CETS in writing using the "Help" section available in the website.

**8. OTHER TERMS:**

- (a) Member shall share details of students selected by various companies, along with the companies selected to. This information will be kept confidential by CETS and will be used for analytics and improving the algorithms for future batches. CETS would refrain from sharing this information with any third party without a written authorization from the member.
- (b) CETS can send notification regarding its other products to the member's students in this platform.
- (c) CETS can seek student and Member's feedback/ testimonials from time-to-time and the same can be used by CETS for its branding purpose, under intimation to the member.

  
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VIZIANAGARAM-535005

  
www.cetsonline.com  
Education & Training  
Services Private Limited

भारत सरकार  
अंतरिक्ष विभाग  
**भारतीय सुदूर संवेदन संस्थान**  
4, कालीदास मार्ग, पो. बाक्स सं. 135  
देहरादून- 248 001, भारत  
दूरभाष : +91-135-2524399  
फैक्स : +91-135-2741987, 2748041



Government of India  
Department of Space

**Indian Institute of Remote Sensing**  
4, Kalidas Road, P.B. No. 135,  
Dehradun - 248 001, India  
Telephone : +91-135-2524399  
Fax : +91-135-2741987, 2748041

**Dr. Prakash Chauhan**  
Director

No.: IIRS/GIT&DL/EDUSAT/2018/36  
Date: July 18, 2018

**विषय:** "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" पर 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम की घोषणा"

**Sub:** Announcement of 36th IIRS Outreach Program on "Basics of Remote Sensing and Digital Image Analysis" commencing from August 20, 2018.

Dear Sir/ Madam,

पृथ्वी अवलोकन (ई.ओ.) भारतीय अन्तरिक्ष अनुसंधान संस्थान का एक महत्वपूर्ण कार्यक्रम है जिसके अंतर्गत पिछले पचास वर्षों में कई उपग्रहों को अन्तरिक्ष में प्रक्षेपण किया गया है। इन उपग्रहों से प्राप्त आकड़ों का उपयोग प्राकृतिक संसाधन व आपदा प्रबंधन में किया जाता है। भारतीय सुदूर संवेदन संस्थान (भा.सु.सं.सं.) भूस्थानिक प्रौद्योगिकी के अंतर्गत शिक्षण, प्रशिक्षण तथा क्षमता संवर्धन को समर्पित एक महत्वपूर्ण संस्थान है। इस संस्थान द्वारा अब तक 35 उपग्रह एवं इंटरनेट आधारित आउटरीच पाठ्यक्रम संचालित किए जा चुके हैं। इन पाठ्यक्रमों से अबतक 806 भारतीय विश्वविद्यालयों/ संस्थानों के करीब 72000 से अधिक प्रतिभागी लाभान्वित हुए हैं। इस कार्यक्रम को आगे बढ़ाते हुए हम सहर्ष 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम को प्रारंभ करने की घोषणा करते हैं। 20 अगस्त, 2018 से प्रारम्भ होने वाला यह कार्यक्रम "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" है। यह कार्यक्रम कार्यरत पेशेवरों तथा छात्रों हेतु लक्षित है। यह कार्यक्रम प्रतिभागियों को अपने कार्यस्थल पर रहते हुये ज्ञान को समृद्ध करने का एक अनूठा अवसर प्रदान करेगा।

The Indian Space Research Organisation (ISRO) has a vibrant Earth Observation (EO) programme since last 50 years with the launch of several satellite missions. The Indian Remote Sensing Satellite (IRS) series of satellites provide space based information for monitoring and management of natural resources and Disaster Management Support. The Indian Institute of Remote Sensing (IIRS) is a premier Institute under ISRO engaged in training, education and capacity building on use of geospatial technology for natural resources monitoring and disaster management since last five decades. The institute has so far conducted 35 Satellite and Internet based Outreach Programmes, benefitting more than 72,000 participants from 806 Indian Universities/ Institutions/User Departments/User Ministries in India. To promote the use of geospatial technology, IIRS announces the 36<sup>th</sup> IIRS Outreach programme on "Basics of Remote Sensing and Digital Image Analysis" commencing on August 20, 2018. The course is targeted to working professionals and students and will provide a unique opportunity to the learners to enhance their knowledge by attending the course at their respective working places.

यह कोर्स तीन मॉड्यूलों में बंटा है रिमोट सेंसिंग और डिजिटल इमेज एनालिसिस, वैश्विक नेविगेशन सैटेलाइट सिस्टम और भौगोलिक सूचना प्रणाली और आरएस और जीआईएस एप्लीकेशन। कोर्स के दौरान पढ़ाये जाने वाले प्रमुख विषयों में रिमोट सेंसिंग, अर्थ अवलोकन सेंसर और प्लेटफॉर्म के बुनियादी सिद्धांत, विभिन्न भूमि कवर सुविधाओं के स्पेक्ट्रल हस्ताक्षर, छवि व्याख्या, थर्मल और माइक्रोवेव रिमोट सेंसिंग, डिजिटल इमेज प्रोसेसिंग, जीपीएस और जीएनएसएस का परिचय, रिसेीवर, प्रसंस्करण विधियों, भौगोलिक सूचना प्रणाली, डाटा बेस, टोपोलॉजी, स्थानिक विश्लेषण और ओपन सोर्स सॉफ्टवेयर और कृषि और मृदा, वानिकी और पारिस्थितिकी, जियोसाइंस और जिओहाजर्ड्स, समुद्री और वायुमंडलीय विज्ञान, शहरी और क्षेत्रीय अध्ययन और जल संसाधन में आरआईएस और जीआईएस एप्लीकेशन आदि सम्मिलित हैं। प्रतिभागी अपनी पसंद के मॉड्यूल या पूरे प्रमाणपत्र पाठ्यक्रम के लिए पंजीकरण कर सकते हैं।

The course consists of three modules namely Remote Sensing and Digital Image Analysis, Global Navigation Satellite System and Geographical Information System and RS and GIS Applications. The major topics covered will include Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Spectral Signature of different land cover features, Image interpretation, Thermal & Microwave Remote Sensing, Digital Image Processing, Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy, Geographic Information System, data bases,

topology, spatial analysis and open source software's and RS and GIS Applications in Agriculture and Soil, Forestry and Ecology, Geoscience and Geohazards, Marine and Atmospheric Sciences, Urban and Regional Studies and Water Resources. **The participants can register for individual module of their choice or the entire certificate course.**

अपने कार्यस्थल से प्रतिदिन डेढ़ घंटा समर्पित करके भूस्तरीय प्रौद्योगिक सीखने का यह एक अनोखा अवसर है। इस पाठ्यक्रम में **निशुल्क** भाग लिया जा सकता है। ए-व्यू सॉफ्टवेयर ([www.aview.in](http://www.aview.in)) का प्रयोग कर इंटरनेट के जरिए कार्यक्रम स्वतंत्र रूप से उपलब्ध हो सकता है। यह कार्यक्रम एनएनआरएमएस, अंतरिक्ष विभाग, और क्षमता निर्माण के लिए भारत सरकार द्वारा प्रायोजित है। पाठ्यक्रम पूर्ण करने पर प्रतिभागियों को आईआईआरएस. इसरो से प्रमाण पत्र के साथ सम्मानित किया जाएगा। यह कार्यक्रम 16:00-17:30 बजे के दौरान प्रतिदिन प्रसारित किया जाएगा। इस कोर्स की घोषणा, विवरणिका की एक प्रति आपके सहयोगियों और आपके विश्वविद्यालय/ संस्थान/ संगठन में परिसंचरण के लिए इसके साथ भेजी जा रही है। यह पाठ्यक्रम यूजी और पीजी छात्रों/ शोधकर्ताओं/ वैज्ञानिक/ तकनीकी कर्मचारियों और इच्छुक व्यक्तियों के लिए उपलब्ध है। इसके व्यापक प्रचार और आपके विश्वविद्यालय/ संस्थान/ संगठन से अधिकतम भागीदारी के लिए आपके समर्थन की आवश्यकता है।

It is a unique opportunity for participants to learn directly from their place of working by devoting an hour and a half each day. The course can be attended with **no cost** to the participants. Programme can be received live through internet by utilizing A-VIEW software ([www.aview.in](http://www.aview.in)) available freely or using live streaming from YouTube. This Programme is sponsored by NNRMS, Department of space, and Government of India for capacity building. The participants who successfully complete the course will be awarded a certificate from IIRS, ISRO. The programme is scheduled during 1600 Hrs.-1730 Hrs. A copy of the announcement brochure of this course is forwarded herewith for your kind perusal and for circulation in your university/institute/organisation. The course is open to UG & PG students/researchers/scientific/technical staff and interested individuals. We need your support for wide publicity and maximum participation from your university/ institute/Organisation.

यदि आपको कार्यक्रम के बारे में और जानकारी की आवश्यकता है, तो कृपया संपर्क करने में संकोच न करें

डॉ. हरीश कर्नाटक, प्रमुख, भू-वेब सेवाएँ, सूचना प्रौद्योगिकी तथा दूरस्थ अधिगम विभाग

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

डॉ. पूनम एस तिवारी, कार्यक्रम समन्वयक, आईआईआरएस आउटरीच प्रोग्राम

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एडीयूसैट स्टूडियो / कंट्रोल रूम [श्री जनार्दन विश्वकर्मा और श्री अशोक घिल्लियाल]

Ph.: 0135-2524130, email: [dlp@iirs.gov.in](mailto:dlp@iirs.gov.in)

In case you need any further information about the programme, please feel free to contact:

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Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

**Dr. Poonam S. Tiwari**, Programme Coordinator, IIRS Outreach Programme

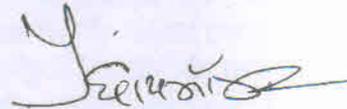
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You may also visit IIRS website [http //www.iirs.gov.in/Edusat-News](http://www.iirs.gov.in/Edusat-News) for further details.

With regards and best wishes,



(Prakash Chauhan)  
Director

संलग्नक/Encl.: कार्यक्रम विवरणिका तथा अनुसूची/ Course Brochure and Schedule

# MEMORANDUM OF UNDERSTANDING

between

## **MVGR COLLEGE OF ENGINEERING (Autonomous)**

Vizianagaram  
Andhra Pradesh, INDIA

and

## **Geospatial and Environmental Solutions (GES)**

In innovative center of National Institute of Hydrology  
NAD Junction, Visakhapatnam – Andhra Pradesh

### GENERAL

#### Agreement

In order to facilitate industry-institute interaction for technical advancement, to develop academic and industrial relationships and support collaborative research activities, MVGR College of Engineering, hereinafter addressed as MVGR and Geospatial and Environmental Solutions, hereinafter addressed as GES, agree to establish this Memorandum of Understanding (MOU) as a framework for cooperative programs.

### ARTICLE I

#### Faculty Visits and Training

It is agreed that linkages will be strengthened by visit of faculty from MVGR to GES. The purpose of these visits by the faculty is primarily to facilitate the following:

- \* Training of the faculty by member of GES on groundwater flow and solute transport modeling, hydraulic and hydrologic modeling and geophysical investigations

Arrangements for each such visit will be made by MVGR. Purpose, timing and other details concerning these exchanges and short visits in this regard shall be mutually acceptable to both the institutions. It is agreed that information concerning the purpose and duration of the visit by the faculty, the proposed topics of study, details of the personnel visiting and any further details, as required, will be provided to GES by MVGR at least two weeks prior to the proposed visit.

## **ARTICLE II**

### **Student Training**

Further to the above, it is also agreed that GES will support and facilitate visits of groups of students from MVGR. The purpose of these visits by the students is as follows:

- \* Industrial visits at II year level to study and understand functioning of different water and environmental related ecosystems and their impacts on sustainability
- \* Industrial visit at III year level to undertake mini-projects and pilot studies for full-fledged projects

As in the case of Article I, arrangements for each such visit will be made by MVGR in the form of formal letters seeking permission as well as the convenience of Geospatial and Environmental Solutions to send the student groups. Purpose, timing and other details concerning these exchanges shall be mutually acceptable to both the institutions. It is agreed that information concerning the number of students visiting, duration of the visit, the proposed topics of study and any further details, as required, will be provided to GES by MVGR at least two weeks prior to the proposed visit.

## **ARTICLE III**

### **Courses: Seminars, Workshops, Refresher Courses**

It is agreed that MVGR will arrange periodic seminars, workshops and refresher courses in collaboration with GES. The purpose of these courses is to facilitate and maintain on-going Industry-Institute Interaction as well as provide a forum for faculty of MVGR as well as those of institutions in the vicinity to discuss on topics of current interest both to MVGR as well as GES. Experts from GES as well as faculty from MVGR with significant exposure in the topic of interest will coordinate and conduct these courses.

Arrangements for such courses will be made by MVGR in keeping with the convenience of experts from GES. Purpose, timing and other details concerning these courses shall be mutually acceptable to both the institutions. It is agreed that information concerning the duration of the visit, the proposed topics of the course and any further details, as required, will be mutually discussed by MVGR with GES by MVGR at least one month prior to the schedule of the course or workshop.

**ARTICLE IV**  
**Cooperative Research**

It is anticipated that significant opportunities, of which a few have been identified, exist for cooperative research between MVGR and GES. Such clearly beneficial activities may require specific arrangements. In view of the importance of cooperative research, GES will provide necessary support to visiting faculty from MVGR to study research problems at GES. Such problems will be analyzed and solutions suggested by MVGR.

**ARTICLE V**  
**Competence in Consultancy**

It is also anticipated that significant opportunities exist for taking up consultancy works with industries. MVGR has state-of-the-art equipment ideally suited to taking up consultancy work for industries in the area of materials testing, machinability testing, fabrication of complicated parts, dynamic testing or equipment etc. GES will provide necessary assistance and guidance to MVGR to develop such consultancy capabilities initially by working on challenges faced by Geospatial and Environmental Solutions and later extending the expertise gained to other industries.

**ARTICLE VI**  
**Support to ASMK**

Through all of the above endeavours, MVGR hopes to extend full support to GES in meeting the challenges faced by them, Specifically MVGR shall extend themselves in the following area:

Taking up analysis or testing activities as outsourced by GES to supply them with necessary designs, results and analysis

MVGR will train up students in core competencies required by GES so that they can be considered to suitable positions at GES during their recruitment drives

It is hoped that through these activities, MVGR will be able to extend its facilities and capabilities to GES in return for all the technical guidance and support received from them for its development.

**ARTICLE VII**  
**Exchange of Scientific Materials**

Both the collaborating parties agree to exchange as widely as is practicable such items as scientific publications and journals, university calendars, prospectuses, text books, course outlines and reference materials that may be necessary and of use to either party.

**ARTICLE VIII**  
**Duration of Memorandum of Understanding**

The effective date of this MOU shall be 02.11.2018. The MOU shall extend for a period of 3 (Three) years and may be renewed upon mutual written agreement. The MOU may be modified by mutual written agreement. The MOU may be terminated by either GES or by MVGR with notification to the other party six months prior to the effective date of termination.

**ARTICLE IX**  
**Indemnification**

Geospatial and Environmental Solutions and MVGR College of Engineering (MVGR) shall each indemnify and hold harmless the other, its faculty/officers, agents and employees, for any and all liability, damages and costs attributable to the negligent acts or omissions of the indemnifying party, its faculty/officers, agents and employees while acting in the scope of their employment and in furtherance of activities described in this Memorandum of Understanding.

**ARTICLE X**  
**Liability Insurance**

Each party shall maintain its own insurance in amounts deemed appropriate for its operations. Such insurance shall provide coverage for negligent acts, errors, or omissions and provide protection against bodily injury or property damage claims. It is expressly understood that each party shall be solely responsible for its own actions and such insurance shall not extend to protect any other party.

**ARTICLE XI**  
**Conduct**

Each party shall abide by the rules and regulations of the host institution especially in regard to visits by the faculty/students of MVGR to GES.

**ARTICLE XII  
Administration**

The administration of this MOU will be the responsibility of the MVGR College of Engineering (MVGR). Dr. K V L Raju, Principal, MVGR College of Engineering shall be the primary contact at MVGR followed by Dr. P. Markandeya Raju (Professor and Head of Department – Civil), MVGR College of Engineering shall be the secondary contact at MVGR. Dr. L. Surinaidu, CEO, Geospatial and Environmental Solutions, will serve as the primary contact at Geospatial and Environmental Solutions.

In witness whereof the undersigned, representing their respective institutions, hereby sign and approve this Memorandum of Understanding in duplicate, one copy for every signing party.

**SIGNED:**

Geospatial and Environmental Solutions

MVGR College of Engineering



\_\_\_\_\_  
Dr. L. Surinaidu  
CEO  
Geospatial and Environmental Solutions



\_\_\_\_\_  
Dr. K V L Raju  
Principal  
MVGR College of Engineering



Date 02/11/2018



Date 02/11/2018

01/12/2017  
IIT Roorkee

To  
The Principal  
MVGR College of Engg,

Sub: Collaboration with MVGR-reg

Sir,

This is Dogga Raveendhra, CTO, Arka Energies (Pre-Incubated IIT Roorkee startup), which is registered as Zunik Energies Pvt. Ltd. (Pre-Incubated at TIDES, IIT Roorkee and also Startup India recognized Startup). Our profile is attached herewith. We are interested to collaborate with Mr. K.S Ravi Kumar, Associate Professor, EEE Dept., MVGR College of Engg, VZM.

Further we would like to patent our collaborative work with Mr. Ravi Kumar, with in India and abroad. The support can be in the form of payment of patent fees involved and also in purchasing components for the developing lab made/commercial prototype for this patented technology.

We would like to further discuss on the possibilities of working out memorandum of understanding (MOU) between MVGR College of Engineering, Chintalavalasa, Vizianagaram, Andhra Pradesh, INDIA and Zunik Energies Pvt. Ltd. to clearly define the broad scope of interaction between both.

For this we need your support for a mutual win situation for enhancing interaction which the best way to make real engineers who can fulfill power dreams of our nation.

Thanking You.

Dogga Raveendhra  
Founder & CTO  
Zunik Energies Pvt. Ltd.  
I-2, TIDES Business Incubator  
IIT Roorkee



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[www.zunikenergies.com](http://www.zunikenergies.com)



Zunik Energies , I-2, TIDES Business Incubation Centre, IIT Roorkee, Roorkee

## MEMORANDUM OF UNDERSTANDING

between

### M V G R COLLEGE OF ENGINEERING

Chintalavalasa, Vizianagaram  
Andhra Pradesh, INDIA

and

### Zunik Energies Pvt. Ltd.

I-2, Tides Business Incubation Centre, IIT Roorkee,  
UTTARAKHAND - 247667

#### GENERAL

##### Agreement

In order to facilitate industry-institute interaction for technical advancement, to develop academic and industrial relationships and support collaborative research activities, MVGR College of Engineering, hereinafter addressed as MVGR and Zunik Energies Pvt. Ltd., hereinafter addressed as Zunik Energies Pvt. Ltd., agree to establish this Memorandum of Understanding (MOU) as a framework for cooperative programs.

#### ARTICLE I

##### Faculty Visits and Training

It is agreed that linkages will be strengthened by visit of faculty from MVGR to Zunik Energies Pvt. Ltd., The purpose of these visits by the faculty is primarily to facilitate the following:

- \* Training of the faculty by member of Zunik Energies Pvt. Ltd. on Power Electronic Converters design and controller development as well as manufacturing and testing protocols
- \* Training and exposure of faculty to understand practical difficulties encountered in Power Electronic Converters testing or commissioning
- \* Training and exposure of faculty on Power Electronic Converters for Electrical Vehicles and Renewable Energy Applications



\* Training and exposure of faculty on FPGA, DSP and Micro Controllers for the controlling Power Electronic Converters. Arrangements for each such visit will be made by MVGR. Purpose, timing and other details concerning these exchanges and short visits in this regard shall be mutually acceptable to both the institutions. It is agreed that information concerning the purpose and duration of the visit by the faculty, the proposed topics of study, details of the personnel visiting and any further details, as required, will be provided to Zunik Energies Pvt. Ltd. by MVGR at least two weeks prior to the proposed visit.

## ARTICLE II

### Student Training

Further to the above, it is also agreed that Zunik Energies Pvt. Ltd. will support and facilitate visits of groups of students from MVGR. The purpose of these visits by the students is as follows:

- \* Industrial visits at II-year level to study and understand functioning of an industrial establishment
- \* Industrial visit at III-year level to undertake mini-projects and pilot studies for full-fledged projects
- \* Vocational training in Power Electronic Converters PCB design, modelling and manufacturing to equip students at III year or IV-year levels to acquaint themselves with industrial procedures and operations so as to prepare themselves to face the challenges of the industrial world upon graduation

As in the case of Article I, arrangements for each such visit will be made by MVGR in the form of formal letters seeking permission as well as the convenience of Zunik Energies Pvt. Ltd. to send the student groups. Purpose, timing and other details concerning these exchanges shall be mutually acceptable to both the institutions. It is agreed that information concerning the number of students visiting, duration of the visit, the proposed topics of study and any further details, as required, will be provided to Zunik Energies Pvt. Ltd. by MVGR at least three weeks prior to the proposed visit.

## ARTICLE III

### Courses: Seminars, Workshops, Refresher Courses

It is agreed that MVGR will arrange periodic seminars, workshops and refresher courses in collaboration with Zunik Energies Pvt. Ltd., The purpose



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of these courses is to facilitate and maintain on-going Industry-Institute Interaction as well as provide a forum for faculty of MVGR as well as those of institutions in the vicinity to discuss on topics of current interest both to MVGR as well as Zunik Energies Pvt. Ltd., Experts from Zunik Energies Pvt. Ltd. as well as faculty from MVGR with significant exposure in the topic of interest will coordinate and conduct these courses.

Arrangements for such courses will be made by MVGR in keeping with the convenience of experts from Zunik Energies Pvt. Ltd., Purpose, timing and other details concerning these courses shall be mutually acceptable to both the institutions. It is agreed that information concerning the duration of the visit, the proposed topics of the course and any further details, as required, will be mutually discussed by MVGR with Zunik Energies Pvt. Ltd. by MVGR at least one month prior to the schedule of the course or workshop.

#### ARTICLE IV

##### Cooperative Research

It is anticipated that significant opportunities, of which a few have been identified, exist for cooperative research between MVGR and Zunik Energies Pvt. Ltd., Such clearly beneficial activities may require specific arrangements. In view of the importance of cooperative research, Zunik Energies Pvt. Ltd., will provide necessary support to visiting faculty from MVGR to study research problems at Zunik Energies Pvt. Ltd., Such problems will be analyzed and solutions suggested by MVGR.

#### ARTICLE V

##### Competence in Consultancy

It is also anticipated that significant opportunities exist for taking up consultancy works with industries. MVGR has state-of-the-art equipment ideally suited to taking up consultancy work for industries in the area of Power Electronics and Drives. Zunik Energies Pvt. Ltd. will provide necessary assistance and guidance to MVGR to develop such consultancy capabilities initially by working on challenges faced by Zunik Energies Pvt. Ltd. and later extending the expertise gained to other industries.



## ARTICLE VI

### Support to ASMK

Through all of the above endeavors, MVGR hopes to extend full support to Zunik Energies Pvt. Ltd., in meeting the challenges faced by them, Specifically MVGR shall extend themselves in the following area:

Taking up analysis or testing activities as outsourced by Zunik Energies Pvt. Ltd., to supply them with necessary designs, results and analysis

MVGR will train up students in core competencies required by Zunik Energies Pvt. Ltd. so that they can be considered to suitable positions at Zunik Energies Pvt. Ltd., during their recruitment drives.

It is hoped that through these activities, MVGR will be able to extend it facilities and capabilities to Zunik Energies Pvt. Ltd., in return for all the technical guidance and support received from them for its development.

## ARTICLE VII

### Exchange of Scientific Materials

Both the collaborating parties agree to exchange as widely as is practicable such items as scientific publications and journals, university calendars, prospectuses, text books, course outlines and reference materials that may be necessary and of use to either party.

## ARTICLE VIII

### Duration of Memorandum of Understanding

The effective date of this MOU shall be December 1,2017 The MOU shall extend for a period of 3 (Three) years and may be renewed upon mutual written agreement. The MOU may be modified by mutual written agreement. It may be terminated by either Zunik Energies Pvt. Ltd. or by MVGR with notification to the other party six months prior to the effective date of termination.

## ARTICLE IX

### Indemnification

Zunik Energies Pvt. Ltd. (Zunik Energies Pvt. Ltd.) and MVGR College of Engineering (MVGR) shall each indemnify and hold harmless the other, its faculty/officers, agents and employees, for all liability, damages and costs



attributable to the negligent acts or omissions of the indemnifying party, its faculty/officers, agents and employees while acting in the scope of their employment and in furtherance of activities described in this Memorandum of Understanding.

#### ARTICLE X

##### Liability Insurance

Each party shall maintain its own insurance in amounts deemed appropriate for its operations. Such insurance shall provide coverage for negligent acts, errors, or omissions and provide protection against bodily injury or property damage claims. It is expressly understood that each party shall be solely responsible for its own actions and such insurance shall not extend to protect any other party.

#### ARTICLE XI

##### Conduct

Each party shall abide by the rules and regulations of the host institution especially in regard to visits by the faculty/students of MVGR to Zunik Energies Pvt. Ltd.,

#### ARTICLE XII

##### Administration

The administration of this MOU will be the responsibility of the MVGR College of Engineering (MVGR). Dr. K. V. L. Raju, Principal, MVGR College of Engineering shall be the primary contact at MVGR followed by Dr. Sarat Kumar Sahu, Head of the Dept., Electrical and Electronics Engineering, MVGR College of Engineering, shall be the secondary contact at MVGR. Mr. Dogga Raveendhra, Managing Director, Zunik Energies Pvt. Ltd., will serve as the primary contact at Zunik Energies Pvt. Ltd.

In witness whereof the undersigned, representing their respective institutions, hereby sign and approve this Memorandum of Understanding in duplicate, one copy for every signing party.

#### SIGNED:

**Zunik Energies Pvt. Ltd.**  
FOR ZUNIK ENERGIES PVT. LTD.,

R. Pojitha



D. Raveendhra  
Mg. Director / Director  
Sri. Dogga Raveendhra  
Managing Director  
Zunik Energies Pvt. Ltd.

**MVGR College of Engineering**

Dr. K. V. L. Raju  
Principal  
MVGR College of Engineering



1-919-802-1325



+91-8074357707



+91-8074357707



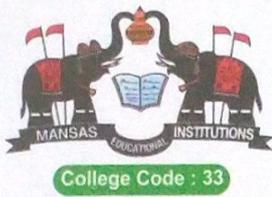
info@zunikenergies.com



www.zunikenergies.com



Zunik Energies , I-2, TIDES Business Incubation Centre, IIT Roorkee, Roorkee



Since 1997

# MVGR College of Engineering (Autonomous)

VIJAYARAM NAGAR CAMPUS, CHINTALAVALLASA VIZIANAGARAM-535 005

Phone : 08922-241199, 241732, e-mail : info@mvgrce.edu.in

Website : www.mvgrce.edu.in

To  
Royal Academy of Engineering  
UK

Date: 25.01.2018

Application Title: Making "Deep Learning and AI skills" mainstream in India to fulfil trilateral needs of entrepreneurship, Industry-academia partnership and application-inspired Engineering Research

We confirm our Support, partnership and collaboration for the Application made by Prof. Deepak Garg of Bennett University.

The objectives of the project are of great relevance to us because it is unique in its mission and plans. Our institution is aspiring to inculcate this technology for the benefit of our stakeholders and the country.

We are pleased and excited to work with Prof. Garg for successfully executing this project. We understand that Bennett University has a great supercomputing infrastructure and accomplished faculty, which will be of high value for this engagement. Our faculty will get trained on futuristic technologies which in turn will help us to train our students. After that we will be able to start a research group who will follow up these activities with projects, publications etc. This will help us in connecting with the industry and start-ups.

We are happy to know that we have been chosen as a lead institution in our zone. We will support the project in terms of manpower, local support and infrastructure. We will nominate five of our good faculty to get trained, set up a research group. We will support faculty exchange, student interns or other similar offerings required for the project. Our facilities can be used to hold workshops for Tier 2 and Tier 3 Institutions to spread the learning to remote institutions of the country.

MVGR made its start with 4 departments and 200 students in the year 1997. Today it offers 7 Under Graduate Programs and 7 Post Graduate Programs in Engineering in addition to a program in Management Studies with a total student intake of 1128 and total student strength of 4416. The institute has also been recognized as Research Centre for the Departments of Chemical, Civil, Mathematics, Computer Science and Engineering (CSE) and Mechanical Engineering (MECH) by the affiliating university, JNT University Kakinada. Among the total strength of about 268 faculty, 80 of them are holding doctoral degrees and many others are pursuing PhD actively. The Institution is actively involved in Research in the areas of Microwave and Antenna Technology, Machine Tools, Water Technology, Hydrological Modeling etc. Details of our Institution can be found at website: [www.mvgrce.com](http://www.mvgrce.com)

(Dr.K.V.L.RAJU)

Dr. K.V.L. RAJU  
Principal, MVGR College of Engg (A)  
VIZIANAGARAM-535005

# NVIDIA-BENNETT RESEARCH CENTRE FOR ARTIFICIAL INTELLIGENCE

*Prof. Deepak Garg*

Head : NVIDIA-Bennett Research Centre for Artificial Intelligence

[www.gdeepak.com](http://www.gdeepak.com)



**BENNETT**  
UNIVERSITY  
TIMES OF INDIA GROUP

Date : 02-04-2018

Dear Dr. K.V.L. Raju

Principal, MVGR College of Engineering, Vizianagaram, Andhra Pradesh (India)

It is my pleasure to inform that Royal Academy of Engineering, UK has sanctioned a project titled *"Making Deep Learning and AI skills mainstream in India to fulfil trilateral needs of entrepreneurship, Industry-academia partnership and application-inspired Engineering Research"* worth £ 3,39,000 GBP. The project start date is 02 April, 2018 and end date is 30 April, 2020.

University College London and Brunel University are our UK partners. NVIDIA, Videoken, Edvantics and AWS Educate unit of Amazon are our Industry Partners.

As per the project structure there are Zonal Partners spread across different states of India, who will be lead institution for 10 more institutions in their surrounding geographical area. As part of this Initiative a five member research group on AI will be established with planned and defined outcomes.

We appreciate the letter of support given by your institution. The obligations and benefits of each Zonal partner are being circulated in a separate sheet.

This document notifies your institution as a Zonal Partner and Dr. Nagesh Vadaparathi as Lead Contact from your institution.

Any change in Lead Contact should be duly informed. Any defaulting behaviour on key aspects of the projects may lead to the cancellation of Zonal Partner status.

We are continuously trying to further upscale the project in terms of funding, partners and resources. Your continuous involvement will be key to making this project as a key milestone in Artificial Intelligence Revolution in India and also enable your institution to excel.

With sincere regards

Prof. Deepak Garg

**Title:** Making Deep Learning and AI skills mainstream in India to fulfil trilateral needs of entrepreneurship, Industry-academia partnership and application-inspired Engineering Research

**Abstract**

Project will train 2500 faculty of 250 institutions in India through 25 Lead institutions chosen from different Geographic regions of the country. 25 institutions will follow up with a research group, which will be mentored to do short and long term research in the area of Machine Learning. Start-ups and industry involved in the Artificial Intelligence related work will partner for providing application-inspired ideas and absorbing the trained graduates of these institutions. Project has the potential to change the landscape of AI Research in India. Due to the Interdisciplinary nature of applications in this domain, the impact will percolate to all the Engineering departments of the institutions. Outcome of the project will be tangible in terms of quality manpower for the skill-scare industry and strategic partnership between industry-academia apart from few spin-offs due to this initiative.

**Keywords:** Machine Learning, Artificial Intelligence, Deep Learning, Neural Networks, Data Science, Computer Engineering

**Start Date:** 02 April, 2018

**End Date :** 31 March, 2020

**Three main objectives for the exchange.**

1. To make cutting edge skills and supercomputing infrastructure available to the wider community of academicians and researchers through a thoughtfully created network of 25 lead institutions across India.
2. To initiate, sustain and nourish research groups in the area of Artificial Intelligence. Based on the financial inputs by respective institutions, some of them can grow as a good research center.
3. To motivate the learner community for exploiting the potential of start-ups and innovations in this area and connecting them with the real-life problems of that industry is trying to solve.

Overall it will enhance the content, quality, capacity and collaboration of Indian Engineering education ecosystem.

**What is the technical and national context of your collaboration and what makes it unique?**

World is on the cusp of a revolution with regard to new possibilities in AI and Machine Learning. Deep Learning is being used to solve many critical healthcare related issues apart from other important areas that impact society.

India has aspiring young students in thousands of Technical institutions in the country. Due to lack of quality faculty and curriculum design issues many of these students are not able to get access to latest skill sets required by the industry. 2-Tier and 3-Tier Institutions are also looking for hand holding to get started in the latest areas of research and to work with some of the industry in their area.

Bennett University (Lead Institution) is uniquely poised in this domain as it has become the first institution in the country to have a world-class Supercomputing lab with NVIDIA DGX-1 V100 which

is the fastest machine made by NVIDIA for Deep Learning. It also has a very active research group called MISHA (Machine Intelligence for Smart Places and Health Care Applications). University has agreed to share its resources for the benefit of the nation to different stakeholders of Engineering Education. It will in turn help the University to be one of the leaders in AI research in the country.

Industry all over the world is facing huge scarcity of trained manpower in the area of machine intelligence. Companies working in autonomous vehicular industry, Advanced data science, image processing, Video analytics are short of talent. The whole spectrum of applications important for our planet are waiting for new innovations and ideas due to this buzz around deep learning.

The project will help bring India to a prominent place in the field of AI manpower and research.

**What are the expected outcomes and impacts of the project for your Department, University and the wider engineering community and general public in your country?**

#### **Expected Outcomes**

1. 2500 trained people in Artificial Intelligence who in turn will be helping to train around 250000 Students every year.
2. 25 Research Groups working in different critical areas to solve some of the pressing problems in front of mankind.
3. 250 institutions connected with Industry for live projects and helping their students to better prepare for the industry-required skills.
4. Marked improvement in the quality landscape and skill gap which will result in an overall buoyancy in the Indian higher education system to bring it at par with International standards

#### **Impact of the project for Lead department and the University**

1. University will feel obliged and privileged to contribute in the progress of the higher education system of the nation.
2. Department will be poised to occupy the leadership position in the Machine Learning Research across the country.
3. Department and University will be able to create a sustainable network of stakeholders who can be further energized for different initiatives.
4. It will help to bring out quality publications, Thesis and other artefacts of Research.
5. It will help us to further apply for additional funding in the advance areas of Research.
6. It will expose our faculty to the different new ideas, innovations and unexplored Geography.
7. Our association with Industry and UK partners will be further strengthened and will create a long-lasting bonding.

#### **Expectations from the UK Partner**

1. UK partner will be providing Collaborative support in terms of Technical and Research aspects of the project. The expertise of the University in machine learning will help the project to design the content of the training.
2. UK Partner will also help in strategizing the growth of Research Groups in different Lead institutions.
3. UK Partner will visit in one or more of the workshops to interact and be an expert speaker in the workshop.
4. Depending on availability of funds Few people from the Lead institution can visit UK for a wider discussion and can widen the collaboration in other areas and strengthen International Collaboration.

5. UK partner will be involved in Quarterly Web calls for reviewing the progress of the Project.

#### Expectations and benefits from Industry

1. Industry involvement in the project will help to keep the technical content of the workshops to the mark and Industry will be able to pin point any ongoing updatation in the field.
2. Industry will be able to connect with this consortium of institutions for a win-win regarding their Intern or hiring requirements in this skill-scare domain.
3. Industry will support the project with few live projects to enrich the quality of the projects students are doing in the institutions.
4. Industry will get the promotions in all the communications, events, conferences, workshops of the project.
5. Industry will be expected to spare speakers/mentors based on mutual convenience and consent.

This is to certify that Dr. Nagesh Vadaparthi  
from M.V.G.R. College of Engineering (Autonomous)  
has worked in

**NVIDIA Bennett Research Center on Artificial Intelligence**

at Computer Science Engineering Department,

Bennett University, Greater Noida

from 25-02-2019 to 20-03-2019

for Research Sabbatical under the mentorship

of Dr. Tapas Bada.

*Deepak Garg*

Dr. Deepak Garg  
Head Computer Science Engineering

*Suneel Gupta*

Dr. Suneel Gupta  
Sabbatical Coordinator

# 2017-18

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**MAHARAJ VIJAYARAM GAPATHI RAJ COLLEGE OF ENGINEERING(AUTONOMOUS)**

Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram-535005, Andhra Pradesh

**Accredited by NAAC with 'A' Grade & Listed u/s 2(f) & 12(B) of UGC**

**(Approved by AICTE, New Delhi and Permanently Affiliated by JNTUK-Kakinada)**

NBA Accredited UG Courses: B.Tech(MEC), B.Tech(CIV), B.Tech(EEE), B.Tech(ECE), B.Tech(CSE), B.Tech(IT),  
B.Tech(MEC) & B.Tech(CHE) and PG Course: MBA

SERVICE AGREEMENT

This SERVICE AGREEMENT is made and entered into this 24 April, 2017.

**BY AND BETWEEN**

Conduira Education & Training Services Private Limited, a company incorporated under the [Indian] Companies Act, 1956, having its registered office at Vaibhav Enclave, Plot- 83, Arunodaya Complex, 1-98/7/3, Madhapur, Hyderabad - 500 081 (hereinafter referred to as 'CETS', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and assigns) of the FIRST PART;

AND

MVGR College of Engineering, Chintalavalasa, Vizianagaram organized under the Indian Laws having its principal place of business at Vizianagaram, Andhra Pradesh - 535005, INDIA (hereinafter referred to as 'Member', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and permitted assigns) of the SECOND PART.

(CETS and Member are hereinafter collectively referred to as "the Parties" and severally as "Party")  
WHEREAS CETS is inter alia in the business of providing e-learning solutions and is responsible for the functioning of its websites [www.conduira.com](http://www.conduira.com) and [www.conduiraonline.com](http://www.conduiraonline.com).

WHEREAS Member is in the business of 'Education Provider' and is desirous of taking service from CETS as described here under, on the terms agreed and contained herein;

WHEREAS the Parties intend to facilitate CETS's e-learning solution

*P. V. Rama Sankar*  
FOR CONDUIRA EDUCATION &  
TRAINING SERVICES PVT. LTD.  
DIRECTOR



NOW, THEREFORE, IN CONSIDERATION OF THE PROMISES AND THE MUTUAL COVENANTS, AGREEMENT HEREINAFTER SET FORTH, THE PARTIES INTENDING TO BE LEGALLY BOUND, HEREBY AGREE AS FOLLOWS:

**1. SERVICE DETAILS:**

The details of the service that Member has agreed to take from CETS are as follows ("Service"):

Member Name :	MVGR College of Engineering, Chintalavalasa, Vizianagaram
Service:	Access to CETS' conduiraonline.com services as elaborated below
Start Date :	24 Apr, 2017
End Date :	23 Apr, 2018
Number of Logins	1040

Item#	Product	Features Included
1.	Online Skill Development- Soft Skills	<ul style="list-style-type: none"> <li>✓ Student Access to                             <ul style="list-style-type: none"> <li>○ Learning Center                                     <ul style="list-style-type: none"> <li>▪ 18+ Hours of Learning Videos</li> </ul> </li> <li>○ Group Discussion</li> </ul> </li> <li>○ Vocab Prep - Vocabulary Tool</li> <li>○ Blogs &amp; Discussion Forms</li> <li>✓ College Admin Login Access</li> </ul>

Price of Service (per login)	Rs. 521.74+ Service Tax
Value of Service (for 1040 logins)	Rs. 5,42,609/-
Add: Service Tax (as per GOI norms, 14%)	Rs. 75,965/-
Add: Swachh Bharat Tax (as per GOI norms, 0.50%)	Rs. 2,713/-
Add: Krishi Kalyan Tax (as per GOI norms, 0.50%)	Rs. 2,713/-
<b>Total Invoice value (including service tax for 1040 logins)</b>	<b>Rs. 6,24,000/-</b>

For CONDUITRA EDUCATION  
TRAINING SERVICES PVT. LTD  
*A.V. Rama Sankar*  
DIRECTOR



**2. PRICE:**

In consideration of the Service as per Clause 1 above, the Member agrees to pay to CETS a sum of **Rupees Six Lakh Twenty Four Thousand only (including Service Tax)** - as per the details mentioned above. This pricing applies to the current service offering only and may be subject to revision for subsequent transactions.

**3. TERM:**

This Agreement shall be valid for **One year** and be in force from **24 Apr, 2017** till **23 Apr, 2018** ("Term")

**4. PAYMENT TERMS:**

(a) The Member shall pay the Total Price to CETS, as per the following payment terms:

Payment Due Date	Value of Service	Total Invoice Value Including Service Tax
26-04-2017	5,42,609	6,24,000

(All payments to be made in favor of "Conduira Education & Training Services Private Limited")

(b) An invoice for the Total Price will be issued by CETS to the Member within 7 days of signing of this Agreement. This would be sent to the above-mentioned address unless otherwise a different address for billing is specified by Member under section "Member's Address for Invoicing/Correspondence" herein below and shall be payable as per the aforesaid payment terms. All invoices are payable to CETS in full, on or before the due date of the invoice as per the said payment terms. In the event any payment is not made within the said period, CETS shall, without prejudice to its other rights under this Agreement or in law, have the right to terminate this Agreement and / or deactivate Member's account without any liability to Member.

**Member's Address for Invoicing / Correspondence:**

MVGR College of Engineering  
Chinatalavalasa, Vizianagaram  
Andhra Pradesh -535005, India.

**Contact Name:** Dr. M. Sunil Prakash

**Email:** deantp@mvgrce.edu.in

**Tel-** +91-9985093219

*A.V. Rama Sankar*  
FOR CONDUIRA EDUCATION  
TRAINING SERVICES PVT. LTD  
DIRECTOR



**5. IMPLEMENTATION AND TRAINING:**

- (a) CETS may either through its officials or authorized representative formally visit the Member's office premises for implementation and / or for any other service purpose.
- (b) CETS would provide the necessary training for the moderators selected by the Member for successful implementation of the Service at the start of the program. This training would include how to manage moderator and student logins, manage the workflow, and escalate issues to CETS as detailed in Clause 7(i).

**6. CETS' OBLIGATION:**

- (a) To provide online customized platform to the Member on **www.conduiraonline.com** (Website)
- (b) To assist Member for online implementation of e-learning solution for registered users as per the agreed Day Plan.
- (c) Provide the following assistance to Member on issues raised as per Clause 7 (i) related to the implementation of e-learning solutions.
  - (i) Acknowledge the messages related to problem within 12 working-hours of their receipt from the Members
  - (ii) Address the Member's issues within 48 working-hours of the above acknowledgment

**7. MEMBER'S OBLIGATION:**

- (a) Shall provide CETS the name of its authorized representative who shall serve as single point of contact with CETS.
- (b) Shall provide the information sought by CETS in requisite format of all users in the Admin Module of **www.conduiraonline.com** to provide login facility to the members.
- (c) Shall be responsible for appropriate use of the Services subscribed under this Agreement, and Terms & Conditions mentioned in **www.conduiraonline.com**.
- (d) Undertakes that the Services subscribed by it under this Agreement is solely for the purpose of its proper appropriation to the users and/or candidates (its own students as indicated by this agreement) and not for its commercial use / purpose.
- (e) Undertakes that there would be no unauthorized/fraudulent use of user content: Member shall ensure the usage of content for lawful purposes and only for the purposes as

*P. V. Kanna Sreanik*  
for CONDUIRA EDUCATION &  
TRAINING SERVICES PVT. LTD  
DIRECTOR



permitted under the scope of this Agreement. Promotion of any illegal activity or marketing of products and other service purposes or spamming of the content by it except for the facilitation of services under this Agreement is prohibited. CETS shall have the sole right to decide as to what constitutes as a breach of these requirements by Member.

- (f) Member shall raise any operational issue hindering the implementation of the Service to CETS in writing using the "Help" section available in the website.

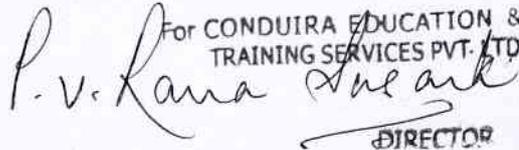
**8. OTHER TERMS:**

- (a) Member shall share details of students selected by various companies, along with the companies selected to. This information will be kept confidential by CETS and will be used for analytics and improving the algorithms for future batches. CETS would refrain from sharing this information with any third party without a written authorization from the member.
- (b) CETS can send notification regarding its other products to the member's students in this platform.
- (c) CETS can seek student and Member's feedback/ testimonials from time-to-time and the same can be used by CETS for its branding purpose.

*P.V. Rama Sankar*  
FOR CONDUIRA EDUCATION &  
TRAINING SERVICES PVT. LTD  
DIRECTOR



IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives in one or more counterparts, each of which shall constitute an original effective as of the day and year set forth above.

SIGNED ON BEHALF OF THE MEMBER :	SIGNED ON BEHALF OF CETS :
Name: Dr. K V L Raju	Name: Mr. P V Rama Sasank
Title / Designation: Principal	Designation: Chief Product Officer (CPO)
College: MVGR College of Engineering	Phone: 9000053678
Address: Chinatalavalasa, Vizianagaram, Andhra Pradesh	Email: sasank@conduira.com
City & Pin Code: Vizianagaram-535005	For Conduira Education & Training Services Pvt. Ltd
Email: principal.mvgr@gmail.com	
Phone: 9440018656	
Fax:	
Signature:  <b>PRINCIPAL</b> MVGR College of Engineering Vijayaram Nagar, Chinthalavalasa VIZIANAGARAM-535005	 For CONDUIRA EDUCATION & TRAINING SERVICES PVT. LTD <b>DIRECTOR</b> Authorized Signatory

### Service Level Agreement (SLA)

The Service Level Agreement (SLA) is entered into on 07<sup>th</sup> November 2017 between Maharaj Vijayaram Gajapathi Raj College of Engineering (Autonomous), Vijayaram Nagar campus, Chintalavalasa, Vizianagaram, Andhra Pradesh, PIN : 535005. and **Focus Academy for Career Enhancement (FACE)**, No.12, Lakshmi Nagar, ThottipalayamPirivu, AvinashiRoad, Coimbatore - 641014.

Maharaj Vijayaram Gajapathi Raj College of Engineering (Autonomous) is represented by Principal, Dr. K.V.L. Raju and FACE is represented by K. Akshay Kumar, Manager – Business Development.

Maharaj Vijayaram Gajapathi Raj College of Engineering (Autonomous) and FACE decided to lay down the terms and conditions of the SLA with the following clauses. The terms and conditions are not limited to the following but new terms shall only be added with mutual consent of both the parties.

Disputes if any are subject to jurisdiction of Coimbatore courts only.

For M.V.G.R. College of Engineering



Principal

PRINCIPAL

MVGR College of Engineering

Vijayaram Nagar, Chintalavalasa  
VIZIANAGARAM-535005

For FACE



Manager – Business Development



Maharaj Vijayaram Gajapathi Raj College of Engineering (Autonomous)

Approved by NBA, NAAC with 'A' Grade of UGC,

Approved by AICTE, New Delhi, and Permanently Affiliated to JNTU, Kakinada

Listed U/S 2(f) & 12 (B) of the UGC Act 1956

**Section 1 – Program and batch details**

<b>Full Name of College</b>	Maharaj Vijayaram Gajapati Raj College of Engineering (Autonomous)
<b>Program Name</b>	Company specific TCS 5 Days
<b>Total Program Duration (in Days)</b>	5 Days
<b>Total Program Duration (in Hours)</b>	30 Hours
<b>Degree and Passing out year of students to be trained</b>	B.E/ B.Tech, 2018 Pass-out Students
<b>Training Dates</b>	14 <sup>th</sup> , 15 <sup>th</sup> , 16 <sup>th</sup> , 17 <sup>th</sup> , and 18 <sup>th</sup> November 2017.
<b>Semester of Study of students to be trained</b>	7 <sup>th</sup> Semester Students
<b>Total No of students attending the training (as per attached Batch-List)</b>	100 – 120 Per Batch.
<b>No of batches</b>	6
<b>Session Timings</b>	9:00 – 12:00 Session-I 12:00 –1:00 Lunch 1:00 – 4:00 Session-II

**IMPORTANT:**

- Last minute changes in training dates will not be accommodated. Hence FACE recommends that the college should double-check and ensure that none of these fall during the training dates: 1. No Local / State / National holidays. 2. No Internal tests / examinations. 3. No college functions. (Ex: Sports day, Annual day) 4. No guest lecturers / special programs. 5. No placement / recruitment process
- Any request for change in training dates needs to be communicated to FACE at-least 7 working days in advance
- Even if communicated 7 working days in advance, FACE is not automatically liable to deliver the service on the revised dates. FACE will re-confirm the possibility of service delivery based on availability of trainers, ease of trainer travel and accommodation and other constraints
- Once the SLA is signed, our Account Manager (AM) from FACE Head-Office will be in touch with you to plan finer details of logistics. Details of the Account Manager (AM) are:
  - **Name:** Ms. Preethi
  - **Mobile Number:** +91 9626383155
  - **Email ID:** preethi.am@focusacademy.in
- Batch List of students to be trained needs to be attached to this SLA. This is a mandatory requirement from FACE.

**DECLARATION:** I have read and understood **Section 1 – Program and batch details** and I agree to the same.

**For M.V.G.R. College of Engineering**

**For FACE**

  
Principal  
PRINCIPAL  
M.V.G.R. College of Engineering  
Vijayaram Nagar, Chinthalavalasa  
VIZIANAGARAM-538008

  
Manager – Business Development  
  
COIMBATORE  
641 014.

## Section 2 – Billing Terms and Conditions

<b>Duration of Training Program (in days)</b>	5 Days
<b>Duration of Training Program (in Hours)</b>	30 Hours
<b>Training Dates</b>	14 <sup>th</sup> , 15 <sup>th</sup> , 16 <sup>th</sup> , 17 <sup>th</sup> , and 18 <sup>th</sup> November 2017.
<b>Price Per Student per day</b>	Rs. 135.6
<b>Service Tax @ 15.0% till June 30th and 18 Percent from July 1st</b>	Rs. 24.4
<b>Total Price (inclusive of taxes)</b>	Rs. 160 *5 = Rs. 800
<b>No of students for whom materials will be sent (if any)(as per attached batch-list)</b>	650
<b>No of students to be billed (irrespective of attendance, since materials and trainer planning will happen according to batch-list)</b>	650
<b>Total Contract Value</b>	=Rs. 800 * 650 = Rs.5,20,000.00
<b>Additional Students</b>	Any extra student would be billed accordingly.

**NOTE:** After completion of program, FACE Finance Manager, Ms. Ashwini will be in touch with the college SPOC for invoicing and payments. SPOC details are:

### FACE Finance Manager Details

- Name – Ms. Ashwini
- Designation – Finance Manager
- Mobile No – +91 7094463730
- Email – [ashwini@focusacademy.in](mailto:ashwini@focusacademy.in)

### <M.V.G.R College of Engineering>Finance Manager Details

- Name – Dr.K.V.L.Raju
- Designation - Principal
- Mobile No – 9440018656

**DECLARATION:** I have read and understood **Section 2- Billing Terms and Conditions** and I agree to the same.

For M.V.G.R.College of Engineering

For FACE

  
Principal  
PRINCIPAL

M.V.G.R College of Engineering  
Vijayaram Nagar,Chinthalavasa  
VIZIANAGARAM-535005

  
Manager – Business Development



**Section 3 – Payment Schedule – Terms & Conditions**

<b>Advance % Payable</b>	NA										
<b>Advance Amount Payable</b>	NA										
<b>Advance Payment Schedule</b>	NA										
<b>Last date for payment of advance amount (failing which the training will not be delivered)</b>	<b>NA</b>										
<b>Maximum Credit Period for Balance Payment</b>	2 weeks from the end Date of training										
<b>Last Date for Balance Payment</b>	2nd December 2017										
<b>Mode of Payment</b>	By Cheque or DD, favoring " <b>Focus 4-D Career Education Pvt. Ltd.</b> " Payable at Coimbatore OR By NEFT/ RTGS Transfer to:										
	<table border="1"> <tr> <td>Account Holder Name</td> <td>Focus 4-D Career Education Pvt. Ltd.</td> </tr> <tr> <td>Account No</td> <td>053109000142765</td> </tr> <tr> <td>Bank Name</td> <td>City Union Bank</td> </tr> <tr> <td>Branch Name</td> <td>Vilankurichi Branch</td> </tr> <tr> <td>IFSC Code</td> <td>CIUB0000053</td> </tr> </table>	Account Holder Name	Focus 4-D Career Education Pvt. Ltd.	Account No	053109000142765	Bank Name	City Union Bank	Branch Name	Vilankurichi Branch	IFSC Code	CIUB0000053
	Account Holder Name	Focus 4-D Career Education Pvt. Ltd.									
	Account No	053109000142765									
	Bank Name	City Union Bank									
	Branch Name	Vilankurichi Branch									
IFSC Code	CIUB0000053										
<b>NOTE:</b> Cash payments will not be accepted											

**DECLARATION:** I have read and understood **Section 3- Payment Schedule - Terms and Conditions** and I agree to the same. I also agree that Disputes if any are subject to jurisdiction of Coimbatore courts only.

For M.V.G.R. College of Engineering

For FACE

  
**Principal**  
 PRINCIPAL  
 MVGR College of Engineering  
 Vijayaram Nagar, Chinthalavalasa  
 VIZIANAGARAM-536005

  
**Manager – Business Development**



**Section 4 – Travel and Logistics – Terms & Conditions**

<b>Trainer Travel to Vizianagaram</b>	FACE will take care
<b>Local conveyance from port of entry in Vizag to place of stay</b>	FACE will arrange Cab
<b>Trainer Accommodation</b>	COLLEGE will Provide
<b>Local Conveyance from place of stay to College and back</b>	NA Since Guest Rooms are within Campus
<b>Food Arrangements (Breakfast, Lunch, Dinner)</b>	College will take care of all three meals
<b>Materials Printing (If any)</b>	FACE will take care
<b>Materials Dispatch (If any)</b>	FACE will take care

**DECLARATION:** I have read and understood **Section 4 - Travel & Logistics - Terms and Conditions** and I agree to the same.

For M.V.G.R College of Engineering

For FACE



Principal

M.V.G.R College of Engineering  
Vijayaram Nagar, Chinthalavalasa  
VIZIANAGARAM-535008

Manager – Business Development



भारत सरकार  
अंतरिक्ष विभाग  
**भारतीय सुदूर संवेदन संस्थान**  
4, कालीदास मार्ग, पो. बाक्स सं. 135  
देहरादून- 248 001, भारत  
दूरभाष : +91-135-2524399  
फैक्स : +91-135-2741987, 2748041



Government of India  
Department of Space

**Indian Institute of Remote Sensing**  
4, Kalidas Road, P.B. No. 135,  
Dehradun - 248 001, India  
Telephone : +91-135-2524399  
Fax : +91-135-2741987, 2748041

Dr. Prakash Chauhan  
Director

No.: IIRS/GIT&DL/EDUSAT/2018/36  
Date: July 18, 2018

**विषय:** "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" पर 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम की घोषणा"

**Sub:** Announcement of 36th IIRS Outreach Program on "Basics of Remote Sensing and Digital Image Analysis" commencing from August 20, 2018.

Dear Sir/ Madam,

पृथ्वी अवलोकन (ई.ओ.) भारतीय अन्तरिक्ष अनुसंधान संस्थान का एक महत्वपूर्ण कार्यक्रम है जिसके अंतर्गत पिछले पचास वर्षों में कई उपग्रहों को अन्तरिक्ष में प्रक्षेपण किया गया है। इन उपग्रहों से प्राप्त आकड़ों का उपयोग प्राकृतिक संसाधन व आपदा प्रबंधन में किया जाता है। भारतीय सुदूर संवेदन संस्थान (भा.सु.सं.सं.) भूस्थानिक प्रौद्योगिकी के अंतर्गत शिक्षण, प्रशिक्षण तथा क्षमता संवर्धन को समर्पित एक महत्वपूर्ण संस्थान है। इस संस्थान द्वारा अब तक 35 उपग्रह एवं इंटरनेट आधारित आउटरीच पाठ्यक्रम संचालित किए जा चुके हैं। इन पाठ्यक्रमों से अबतक 806 भारतीय विश्वविद्यालयों/ संस्थानों के करीब 72000 से अधिक प्रतिभागी लाभान्वित हुए हैं। इस कार्यक्रम को आगे बढ़ाते हुए हम सहर्ष 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम को प्रारंभ करने की घोषणा करते हैं। 20 अगस्त, 2018 से प्रारम्भ होने वाला यह कार्यक्रम "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" है। यह कार्यक्रम कार्यरत पेशेवरों तथा छात्रों हेतु लक्षित है। यह कार्यक्रम प्रतिभागियों को अपने कार्यस्थल पर रहते हुये ज्ञान को समृद्ध करने का एक अनूठा अवसर प्रदान करेगा।

The Indian Space Research Organisation (ISRO) has a vibrant Earth Observation (EO) programme since last 50 years with the launch of several satellite missions. The Indian Remote Sensing Satellite (IRS) series of satellites provide space based information for monitoring and management of natural resources and Disaster Management Support. The Indian Institute of Remote Sensing (IIRS) is a premier Institute under ISRO engaged in training, education and capacity building on use of geospatial technology for natural resources monitoring and disaster management since last five decades. The institute has so far conducted 35 Satellite and Internet based Outreach Programmes, benefitting more than 72,000 participants from 806 Indian Universities/ Institutions/User Departments/User Ministries in India. To promote the use of geospatial technology, IIRS announces the 36<sup>th</sup> IIRS Outreach programme on "Basics of Remote Sensing and Digital Image Analysis" commencing on August 20, 2018. The course is targeted to working professionals and students and will provide a unique opportunity to the learners to enhance their knowledge by attending the course at their respective working places.

यह कोर्स तीन मॉड्यूलों में बंटा है रिमोट सेंसिंग और डिजिटल इमेज एनालिसिस, वैश्विक नेविगेशन सैटेलाइट सिस्टम और भौगोलिक सूचना प्रणाली और आरएस और जीआईएस एप्लीकेशन। कोर्स के दौरान पढ़ाये जाने वाले प्रमुख विषयों में रिमोट सेंसिंग, अर्थ अवलोकन सेंसर और प्लेटफॉर्म के बुनियादी सिद्धांत, विभिन्न भूमि कवर सुविधाओं के स्पेक्ट्रल हस्ताक्षर, छवि व्याख्या, थर्मल और माइक्रोवेव रिमोट सेंसिंग, डिजिटल इमेज प्रोसेसिंग, जीपीएस और जीएनएसएस का परिचय, रिसेीवर, प्रसंस्करण विधियों, भौगोलिक सूचना प्रणाली, डाटा बेस, टोपोलॉजी, स्थानिक विश्लेषण और ओपन सोर्स सॉफ्टवेयर और कृषि और मृदा, वानिकी और पारिस्थितिकी, जियोसाइंस और जिओहाजर्ड्स, समुद्री और वायुमंडलीय विज्ञान, शहरी और क्षेत्रीय अध्ययन और जल संसाधन में आरआईएस और जीआईएस एप्लीकेशन आदि सम्मिलित हैं। प्रतिभागी अपनी पसंद के मॉड्यूल या पूरे प्रमाणपत्र पाठ्यक्रम के लिए पंजीकरण कर सकते हैं।

The course consists of three modules namely Remote Sensing and Digital Image Analysis, Global Navigation Satellite System and Geographical Information System and RS and GIS Applications. The major topics covered will include Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Spectral Signature of different land cover features, Image interpretation, Thermal & Microwave Remote Sensing, Digital Image Processing, Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy, Geographic Information System, data bases,

topology, spatial analysis and open source software's and RS and GIS Applications in Agriculture and Soil, Forestry and Ecology, Geoscience and Geohazards, Marine and Atmospheric Sciences, Urban and Regional Studies and Water Resources. **The participants can register for individual module of their choice or the entire certificate course.**

अपने कार्यस्थल से प्रतिदिन डेढ़ घंटा समर्पित करके भूस्तरीय प्रौद्योगिक सीखने का यह एक अनोखा अवसर है। इस पाठ्यक्रम में **निशुल्क** भाग लिया जा सकता है। ए-व्यू सॉफ्टवेयर ([www.aview.in](http://www.aview.in)) का प्रयोग कर इंटरनेट के जरिए कार्यक्रम स्वतंत्र रूप से उपलब्ध हो सकता है। यह कार्यक्रम एनएनआरएमएस, अंतरिक्ष विभाग, और क्षमता निर्माण के लिए भारत सरकार द्वारा प्रायोजित है। पाठ्यक्रम पूर्ण करने पर प्रतिभागियों को आईआईआरएस. इसरो से प्रमाण पत्र के साथ सम्मानित किया जाएगा। यह कार्यक्रम 16:00-17:30 बजे के दौरान प्रतिदिन प्रसारित किया जाएगा। इस कोर्स की घोषणा, विवरणिका की एक प्रति आपके सहयोगियों और आपके विश्वविद्यालय/ संस्थान/ संगठन में परिसंचरण के लिए इसके साथ भेजी जा रही है। यह पाठ्यक्रम यूजी और पीजी छात्रों/ शोधकर्ताओं/ वैज्ञानिक/ तकनीकी कर्मचारियों और इच्छुक व्यक्तियों के लिए उपलब्ध है। इसके व्यापक प्रचार और आपके विश्वविद्यालय/ संस्थान/ संगठन से अधिकतम भागीदारी के लिए आपके समर्थन की आवश्यकता है।

It is a unique opportunity for participants to learn directly from their place of working by devoting an hour and a half each day. The course can be attended with **no cost** to the participants. Programme can be received live through internet by utilizing A-VIEW software ([www.aview.in](http://www.aview.in)) available freely or using live streaming from YouTube. This Programme is sponsored by NNRMS, Department of space, and Government of India for capacity building. The participants who successfully complete the course will be awarded a certificate from IIRS, ISRO. The programme is scheduled during 1600 Hrs.-1730 Hrs. A copy of the announcement brochure of this course is forwarded herewith for your kind perusal and for circulation in your university/institute/organisation. The course is open to UG & PG students/researchers/scientific/technical staff and interested individuals. We need your support for wide publicity and maximum participation from your university/ institute/Organisation.

यदि आपको कार्यक्रम के बारे में और जानकारी की आवश्यकता है, तो कृपया संपर्क करने में संकोच न करें

डॉ. हरीश कर्नाटक, प्रमुख, भू-वेब सेवाएँ, सूचना प्रौद्योगिकी तथा दूरस्थ अधिगम विभाग

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

डॉ. पूनम एस तिवारी, कार्यक्रम समन्वयक, आईआईआरएस आउटरीच प्रोग्राम

Ph. 0135-2524115 (Office), M: +91 9410924417 or email- [poonam@iirs.gov.in](mailto:poonam@iirs.gov.in)

एडीयूसैट स्टूडियो / कंट्रोल रूम [श्री जनार्दन विश्वकर्मा और श्री अशोक घिल्लियाल]

Ph.: 0135-2524130, email: [dlp@iirs.gov.in](mailto:dlp@iirs.gov.in)

In case you need any further information about the programme, please feel free to contact:

**Dr. Harish Karnatak**, Head, Geoweb Services, IT & Distance Learning Department

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

**Dr. Poonam S. Tiwari**, Programme Coordinator, IIRS Outreach Programme

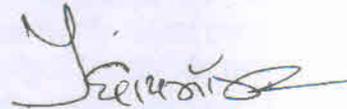
Ph. 0135-2524334 (Office), M: +91 9410924417 or email- [poonam@iirs.gov.in](mailto:poonam@iirs.gov.in)

**EDUSAT Studio/Control Room** [Shri Janardan Vishwakarma & Shri Ashok Ghildiyal]

Ph.: 0135-2524130, email: [dlp@iirs.gov.in](mailto:dlp@iirs.gov.in)

You may also visit IIRS website [http //www.iirs.gov in/Edusat-News](http://www.iirs.gov.in/Edusat-News) for further details.

With regards and best wishes,



(Prakash Chauhan)  
Director

संलग्नक/Encl.: कार्यक्रम विवरणिका तथा अनुसूची/ Course Brochure and Schedule



ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

BX 123304

24/12/16

100/-  
to Kaidandi Venkata Lakshmi Pathi Raju  
whom S/o Rama Krishna Raju  
Vizianagaram

Ex-Officio Stamp Vendor  
Junior Assistant  
Joint Sub-Registrars Office  
VIZIANAGARAM (O.B.)

I. FORM OF CONTRACT

LUMP SUM REMUNERATION

This CONTRACT (hereinafter called the "Contract") is made the 10th day of the month of October 2017 between **Commissioner, Vizianagaram Municipal Corporation** (hereinafter called the "Employer") on the one hand and **Principal, MVGR College of Engineering (A), Vizianagaram, email-principal.mvgr@gmail.com, consultancy@mvgrce.edu.in** (hereinafter called the "Consultants") on the other hand.

WHEREAS

- The employer has requested the Consultants to provide certain consulting services as defined in the General Conditions of Contract attached to this Contract (hereinafter called the Services");

CONSULTANT  
PRINCIPAL

MVGR College of Engineering (A)  
VIZIANAGARAM-535005

1/27

CLIENT

- b. The Consultants, having represented to the Employer that they have the required professional skills, and personnel and technical resources have agreed to provide the Services on the terms and conditions set forth in this Contract:

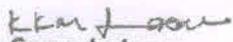
NOW THEREFORE the parties hereto hereby agree as follows:

1. The following documents attached hereto shall be deemed to form an integral part of this Contract.
  - a. The General conditions of contract (hereinafter called "GC")
  - b. The Special conditions of contract (hereinafter called "SC")
2. The mutual rights and obligations of the Employer and the Consultants shall be as set forth in the Contract, in particular:
  - a. The Consultants shall carry out the Services in accordance with the provisions of the Contract; and
  - b. The Employer shall make payments to the Consultants in accordance with the provisions of the Contract.

IN WITNESS WHEREOF the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

FOR AND ON BEHALF OF

FOR AND ON BEHALF OF "Consultants"

  
Commissioner,

Vizianagaram Municipal Corporation  
Vizianagaram.

  
Principal

MVGR College Of Engineering (A),  
Vizianagaram.

PRINCIPAL  
MVGR College of Engineering (A)  
VIZIANAGARAM-535005

  
CONSULTANT

WORK ORDER

Messrs/Sri

Sub: - Vizianagaram Municipality- Service of "Consultancy Services for 3rd Party Quality Assurance." – Service awarded by nomination – Work Order Issued.

- Ref : 1. Your Letter Dt.11.08.2017 communicated by The Principal, MVGR College of Engineering, Vizianagaram.  
2. Council Resolution No.113, Dt.11.09.2017.  
-oOo-

You, the MVGR College of Engineering (Autonomous) is hereby awarded the Service of "Consultancy Services for 3rd Party Quality Assurance" by the Council in its Resolution No.113, Dt.11.09.2017. You are directed to furnish the following documents for concluding agreement of the above Services.

- HOD, CEER*  
*In [Signature]*
- Rs. N.A. (equal to 2.5% on service charges) in shape of Demand Draft in favour of Commissioner, Vizianagaram Municipality willingness for / to be recovered from 1<sup>st</sup> part or Final payment whichever is earlier as security deposit.
  - Copy of latest Income Tax clearance certificate/ Latest Income Tax Return / PAN Number
  - Copy of Sales Tax Registration Certificate/GST Registration Certificate which ever applicable.
  - Availability of Key personnel in Statement I
  - Non-judicial stamp paper worth of Rs.100/-.
  - You are requested to commence the "Consultancy Services for 3rd Party Quality Assurance." for all ongoing works for a period of 6.0 Months from the date of work order initially and can be reviewed for further continuation up to the satisfaction of the Department.
  - You are requested to furnish the above documents on receipt of this work order, failing which, this award will be cancelled without any further notice. The receipt of this work order may please be acknowledged.
  - You are requested to execute the work as per APDSS relevant IS codes, Q.C. manuals and as directed by the Department officers.
  - You are directed to proceed with the services immediately w.e.f. Dt.01.10.2017 on all grant works.

Yours faithfully,

*[Signature]*  
Commissioner (FAC)

Vizianagaram Municipality.

*[Stamp]*  
230917

To  
The Principal,  
MVGR College of Engineering (Autonomous),  
Vijayaramnagar Campus  
Chintalavalasa  
Vizianagaram-535005  
e-mail: info@mvgce.edu.in  
Ph:Ph:08922-241199, 241732

Copy to the Chairperson table for kind information.

Copy to the Deputy Executive Engineer concerned for further necessary action as per the APPWD Code.

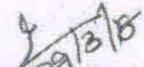
Copy to Assistant Engineer concerned for taking further necessary action in carry out the work as per APPWD code.

①

**VIZIANAGARAM MUNICIPAL CORPORATION  
FORWARDING SLIP TO ACCOMPANY AGREEMENT**

Agreement No.	Date.
1) Name of the Work	: Consultancy Services for 3rd Party Quality Assurance. (General Fund 2017-18)
2) Reference to Administrative Sanction	: Commissioner's note approval Dt.
3) Reference to Technical Sanction / Authority	: NA
4) Total estimate cost of the work	: Percentage (0.8%)
5) <b>Reference to Tender</b>	
a) Date of calling	: NA
b) Last date for receipt / Opening	: NA
c) NIT Paper publication (work exceed one lakh )	: NA
d) No. of bids received	: NA
e) Amount of EMD / FSD / ASD	: NA
f) Whether all bidders have furnished EMD?	: NA
g) Acceptance	: NA
6) a) Name of the Agency/Contractor	: Principal, MVGR College of Engineering (A), VIZIANAGARAM -535005 Mobile: 08922-241741, 241732 Ext. 101, 102, 114,107. e-mail: <a href="mailto:principal.mvgr@gmail.com">principal.mvgr@gmail.com</a> , <a href="mailto:consultancy@mvgrce.edu.in">consultancy@mvgrce.edu.in</a>
b) PAN / Constitution	: PAN No.: AAATM3365Q
c) Bank A/c Category / No. / Branch / City / IFS Code	: Current / A/c No. 3119201005024 Bank: CANARA BANK Branch : Chintalavalasa City: Vizianagaram IFS Code: CNRB0003119
7) Original Agt/Supplementary put to tender	: Original Agreement
8) Estimate Contract Value (ECV) put to tender	: Percentage (0.8%)
9) Tender Percentage (Less/Excess)	:
10) Agreement Value	: N.A
11) Part-II Total value of Lumpsum Items	: -
12) Have tender have been called for?	: Yes (e-procurement)
13) Is the lowest tender accepted	: N.A.-
14) If not any reasons to be recorded	: N.A.
15) Number of calls of Tender	: 1st call
16) Period of completion	: 6 Months and 6 Months extension based on performance review

  
Municipal Engineer Gr.I

  
Commissioner

01/12/2017  
IIT Roorkee

To  
The Principal  
MVGR College of Engg,

Sub: Collaboration with MVGR-reg

Sir,

This is Dogga Raveendhra, CTO, Arka Energies (Pre-Incubated IIT Roorkee startup), which is registered as Zunik Energies Pvt. Ltd. (Pre-Incubated at TIDES, IIT Roorkee and also Startup India recognized Startup). Our profile is attached herewith. We are interested to collaborate with Mr. K.S Ravi Kumar, Associate Professor, EEE Dept., MVGR College of Engg, VZM.

Further we would like to patent our collaborative work with Mr. Ravi Kumar, with in India and abroad. The support can be in the form of payment of patent fees involved and also in purchasing components for the developing lab made/commercial prototype for this patented technology.

We would like to further discuss on the possibilities of working out memorandum of understanding (MOU) between MVGR College of Engineering, Chintalavalasa, Vizianagaram, Andhra Pradesh, INDIA and Zunik Energies Pvt. Ltd. to clearly define the broad scope of interaction between both.

For this we need your support for a mutual win situation for enhancing interaction which the best way to make real engineers who can fulfill power dreams of our nation.

Thanking You.

Dogga Raveendhra  
Founder & CTO  
Zunik Energies Pvt. Ltd.  
I-2, TIDES Business Incubator  
IIT Roorkee



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[www.zunikenergies.com](http://www.zunikenergies.com)



Zunik Energies , I-2, TIDES Business Incubation Centre, IIT Roorkee, Roorkee

## MEMORANDUM OF UNDERSTANDING

between

### M V G R COLLEGE OF ENGINEERING

Chintalavalasa, Vizianagaram  
Andhra Pradesh, INDIA

and

### Zunik Energies Pvt. Ltd.

I-2, Tides Business Incubation Centre, IIT Roorkee,  
UTTARAKHAND - 247667

#### GENERAL

##### Agreement

In order to facilitate industry-institute interaction for technical advancement, to develop academic and industrial relationships and support collaborative research activities, MVGR College of Engineering, hereinafter addressed as MVGR and Zunik Energies Pvt. Ltd., hereinafter addressed as Zunik Energies Pvt. Ltd., agree to establish this Memorandum of Understanding (MOU) as a framework for cooperative programs.

#### ARTICLE I

##### Faculty Visits and Training

It is agreed that linkages will be strengthened by visit of faculty from MVGR to Zunik Energies Pvt. Ltd., The purpose of these visits by the faculty is primarily to facilitate the following:

- \* Training of the faculty by member of Zunik Energies Pvt. Ltd. on Power Electronic Converters design and controller development as well as manufacturing and testing protocols
- \* Training and exposure of faculty to understand practical difficulties encountered in Power Electronic Converters testing or commissioning
- \* Training and exposure of faculty on Power Electronic Converters for Electrical Vehicles and Renewable Energy Applications



\* Training and exposure of faculty on FPGA, DSP and Micro Controllers for the controlling Power Electronic Converters. Arrangements for each such visit will be made by MVGR. Purpose, timing and other details concerning these exchanges and short visits in this regard shall be mutually acceptable to both the institutions. It is agreed that information concerning the purpose and duration of the visit by the faculty, the proposed topics of study, details of the personnel visiting and any further details, as required, will be provided to Zunik Energies Pvt. Ltd. by MVGR at least two weeks prior to the proposed visit.

## ARTICLE II

### Student Training

Further to the above, it is also agreed that Zunik Energies Pvt. Ltd. will support and facilitate visits of groups of students from MVGR. The purpose of these visits by the students is as follows:

- \* Industrial visits at II-year level to study and understand functioning of an industrial establishment
- \* Industrial visit at III-year level to undertake mini-projects and pilot studies for full-fledged projects
- \* Vocational training in Power Electronic Converters PCB design, modelling and manufacturing to equip students at III year or IV-year levels to acquaint themselves with industrial procedures and operations so as to prepare themselves to face the challenges of the industrial world upon graduation

As in the case of Article I, arrangements for each such visit will be made by MVGR in the form of formal letters seeking permission as well as the convenience of Zunik Energies Pvt. Ltd. to send the student groups. Purpose, timing and other details concerning these exchanges shall be mutually acceptable to both the institutions. It is agreed that information concerning the number of students visiting, duration of the visit, the proposed topics of study and any further details, as required, will be provided to Zunik Energies Pvt. Ltd. by MVGR at least three weeks prior to the proposed visit.

## ARTICLE III

### Courses: Seminars, Workshops, Refresher Courses

It is agreed that MVGR will arrange periodic seminars, workshops and refresher courses in collaboration with Zunik Energies Pvt. Ltd., The purpose



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of these courses is to facilitate and maintain on-going Industry-Institute Interaction as well as provide a forum for faculty of MVGR as well as those of institutions in the vicinity to discuss on topics of current interest both to MVGR as well as Zunik Energies Pvt. Ltd., Experts from Zunik Energies Pvt. Ltd. as well as faculty from MVGR with significant exposure in the topic of interest will coordinate and conduct these courses.

Arrangements for such courses will be made by MVGR in keeping with the convenience of experts from Zunik Energies Pvt. Ltd., Purpose, timing and other details concerning these courses shall be mutually acceptable to both the institutions. It is agreed that information concerning the duration of the visit, the proposed topics of the course and any further details, as required, will be mutually discussed by MVGR with Zunik Energies Pvt. Ltd. by MVGR at least one month prior to the schedule of the course or workshop.

#### ARTICLE IV

##### Cooperative Research

It is anticipated that significant opportunities, of which a few have been identified, exist for cooperative research between MVGR and Zunik Energies Pvt. Ltd., Such clearly beneficial activities may require specific arrangements. In view of the importance of cooperative research, Zunik Energies Pvt. Ltd., will provide necessary support to visiting faculty from MVGR to study research problems at Zunik Energies Pvt. Ltd., Such problems will be analyzed and solutions suggested by MVGR.

#### ARTICLE V

##### Competence in Consultancy

It is also anticipated that significant opportunities exist for taking up consultancy works with industries. MVGR has state-of-the-art equipment ideally suited to taking up consultancy work for industries in the area of Power Electronics and Drives. Zunik Energies Pvt. Ltd. will provide necessary assistance and guidance to MVGR to develop such consultancy capabilities initially by working on challenges faced by Zunik Energies Pvt. Ltd. and later extending the expertise gained to other industries.



## ARTICLE VI

### Support to ASMK

Through all of the above endeavors, MVGR hopes to extend full support to Zunik Energies Pvt. Ltd., in meeting the challenges faced by them, Specifically MVGR shall extend themselves in the following area:

Taking up analysis or testing activities as outsourced by Zunik Energies Pvt. Ltd., to supply them with necessary designs, results and analysis

MVGR will train up students in core competencies required by Zunik Energies Pvt. Ltd. so that they can be considered to suitable positions at Zunik Energies Pvt. Ltd., during their recruitment drives.

It is hoped that through these activities, MVGR will be able to extend it facilities and capabilities to Zunik Energies Pvt. Ltd., in return for all the technical guidance and support received from them for its development.

## ARTICLE VII

### Exchange of Scientific Materials

Both the collaborating parties agree to exchange as widely as is practicable such items as scientific publications and journals, university calendars, prospectuses, text books, course outlines and reference materials that may be necessary and of use to either party.

## ARTICLE VIII

### Duration of Memorandum of Understanding

The effective date of this MOU shall be December 1,2017 The MOU shall extend for a period of 3 (Three) years and may be renewed upon mutual written agreement. The MOU may be modified by mutual written agreement. It may be terminated by either Zunik Energies Pvt. Ltd. or by MVGR with notification to the other party six months prior to the effective date of termination.

## ARTICLE IX

### Indemnification

Zunik Energies Pvt. Ltd. (Zunik Energies Pvt. Ltd.) and MVGR College of Engineering (MVGR) shall each indemnify and hold harmless the other, its faculty/officers, agents and employees, for all liability, damages and costs



attributable to the negligent acts or omissions of the indemnifying party, its faculty/officers, agents and employees while acting in the scope of their employment and in furtherance of activities described in this Memorandum of Understanding.

#### ARTICLE X

##### Liability Insurance

Each party shall maintain its own insurance in amounts deemed appropriate for its operations. Such insurance shall provide coverage for negligent acts, errors, or omissions and provide protection against bodily injury or property damage claims. It is expressly understood that each party shall be solely responsible for its own actions and such insurance shall not extend to protect any other party.

#### ARTICLE XI

##### Conduct

Each party shall abide by the rules and regulations of the host institution especially in regard to visits by the faculty/students of MVGR to Zunik Energies Pvt. Ltd.,

#### ARTICLE XII

##### Administration

The administration of this MOU will be the responsibility of the MVGR College of Engineering (MVGR). Dr. K. V. L. Raju, Principal, MVGR College of Engineering shall be the primary contact at MVGR followed by Dr. Sarat Kumar Sahu, Head of the Dept., Electrical and Electronics Engineering, MVGR College of Engineering, shall be the secondary contact at MVGR. Mr. Dogga Raveendhra, Managing Director, Zunik Energies Pvt. Ltd., will serve as the primary contact at Zunik Energies Pvt. Ltd.

In witness whereof the undersigned, representing their respective institutions, hereby sign and approve this Memorandum of Understanding in duplicate, one copy for every signing party.

#### SIGNED:

**Zunik Energies Pvt. Ltd.**  
FOR ZUNIK ENERGIES PVT. LTD.,

R. Pojitha



D. Raveendhra  
Mg. Director / Director  
Sri. Dogga Raveendhra  
Managing Director  
Zunik Energies Pvt. Ltd.

**MVGR College of Engineering**

Dr. K. V. L. Raju  
Principal  
MVGR College of Engineering



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Zunik Energies , I-2, TIDES Business Incubation Centre, IIT Roorkee, Roorkee

MEMORANDUM OF UNDERSTANDING FOR COLLABORATION BETWEEN  
NI SYSTEMS (INDIA) PVT LTD, BANGALORE  
&  
MAHARAJ VIJAYARAM GAJAPATHI RAJ COLLEGE OF ENGINEERING, VIZIANAGARAM

This MoU Regarding LabVIEW Academy Program ("MoU") is made by and between Maharaj Vijayaram Gajapathi Raj College of Engineering, having the campus at Vizianagaram, Andhra Pradesh represented by its Dr. K.V.L.Raju, Principal ("Institution") and NI Systems (India) Pvt. Ltd. ("NI"), a company incorporated under the Companies Act, 1956 of India, having its registered office at 81/1 & 82/1, Salarpuria Softzone, Wing B, 5th Floor, Block A, Bellandur, Varthur Hobli, Bangalore 560 037 represented by **Mr. Solaikutty Dhanabal**, Academic Manager, effective as of 14<sup>th</sup> June, 2013 (the "Effective Date").

1. Institution; Courses. Institution warrants and represents that it is a degree-granting educational institution. During the Term (as defined below), Institution agrees to offer and conduct courses for academic purposes at Institution's facilities, in a professional manner, teaching the use of the NI LabVIEW software, which courses must not be for commercial, corporate or "customer" training purposes and must (a) be taught by an instructor who is then currently a Certified LabVIEW Associate Developer (the Certified LabVIEW Associate Developer certificate needs to be updated every two years) who regularly teaches degree-fulfilling or continuing education courses to students enrolled in or taking continuing education courses at Institution ("Instructor"); (b) include at least 30 hours of instruction specifically directed to the use of the LabVIEW software; (c) be provided in accordance with a course syllabus reviewed and approved by NI; and (d) otherwise meet requirements provided or made available by NI to Institution from time to time (the "Courses"). Institution shall ensure no courses offered or provided are taught or introduced at the Institution which directly competes against the Courses.

2. Materials. Institution agrees to set up a NI LabVIEW Academy in field of Virtual Instrumentation, (hereinafter referred to as ACADEMY). NI agrees to provide to Institution the "Instructional Materials" identified on Exhibit A (the "Materials") solely for the purpose of Institution's teaching the Courses at ACADEMY and under the below conditions:

2.1. Subject to, and conditioned on Institution's compliance with, the terms of this MoU, NI hereby grants to Institution, and Institution hereby accepts, a nonexclusive, nontransferable, limited license, for the Term (as defined below) only, to (a) use the Materials for the sole purpose of teaching the Courses, (b) provide the Materials only to those students enrolled (or taking continuing education classes) at Institution and who are taking the Courses ("Students"), except that Institution may not to provide to any Students, or to any persons or entities other than Instructors, any Materials which are designated on Exhibit A as "Instructor Use Only", and (c) make a reasonable number of copies of only those Materials which are identified on Exhibit A as "Copying Permitted for Course Use", but only as necessary for the purpose set forth in this Subsection 2.1.

2.2. Institution hereby agrees not to itself, and not to encourage or assist Students or others to, (a) copy or reproduce any Materials except as expressly permitted in Subsection 2.1, (b) transfer, disseminate or distribute any Materials to any third-party, except Students to the extent expressly permitted in Subsection 2.1, or (c) use any Materials for any purpose other than the Courses. On any termination or expiration of this MoU, if NI requests, Institution shall, at Institution's sole cost and expense, return to NI all Materials identified on Exhibit A as "Instructor Use Only".

3. Required Software Products Not Included. Institution agrees to obtain from NI, at Institution's sole cost and expense, the necessary Academic Teaching Licenses (as described in the applicable National Instruments Software License MoU, available at [http://www.ni.com/pdf/legal/us/software\\_license\\_agreement.pdf](http://www.ni.com/pdf/legal/us/software_license_agreement.pdf)) to use the LabVIEW software in conducting the Courses; and to obtain from NI, or cause each of the Students to so obtain, at their sole cost and expense, the necessary Student Edition Licenses (as described in the applicable National Instruments Software License MoU) to use the LabVIEW software in the Courses. Institution agrees to comply with, and to cause the Students to comply with, such licenses, including without limitation ensuring that the licensed software is not used for any research, commercial, industrial, or other purpose prohibited by the applicable National Instruments Software License MoU. Except as may be expressly modified by this MoU, the terms and conditions of the

applicable National Instruments Software License MoUs govern Institution's, and the Instructors' and Students', uses of the LabVIEW software as related to the LabVIEW Academy Program and the Course.

4. Required Textbooks and Equipment Not Included. Institution further agrees to obtain and provide, at Institution's sole cost and expense, or to cause each of the Students to so obtain, at their sole cost and expense, textbooks acceptable to NI for use in the Course, as well as any hardware and software as required for the Course, and other appropriate National Instruments equipment approved by NI. Such textbooks, hardware, software and National Instruments equipment approved by NI must be obtained separately and are subject to separate charges.

5. Name, Logo, and Trademarks.

5.1. Subject to, and conditioned on Institution's compliance with, the terms of this MoU, NI hereby grants to Institution, and Institution hereby accepts, a nonexclusive, nontransferable, limited license, for the Term (as defined below) only, to display the "LabVIEW Academy" Logo identified on Exhibit B hereto, the "LabVIEW Academy" name, any and all trademarks of NI therein, including without limitation, "LabVIEW", "National Instruments", and the "LabVIEW" logo design, only as part of, and as each appears in, the "LabVIEW Academy" Logo or the "LabVIEW Academy" name as the case may be (such trademarks being referred to as the "Marks"), solely in connection with providing, selling, promoting and advertising the Courses, solely on web site displays, printed literature, and other materials acceptable to NI and which are of an acceptable level of quality determined by NI in NI's sole discretion, and solely in accordance with Exhibit B hereto and any and all other guidelines and instructions provided or made available by NI to Institution from time to time. In no event may Institution display or use any Mark except as part of, and as it appears in, the "LabVIEW Academy" Logo or the "LabVIEW Academy" name as the case may be.

5.2. With a view to ensuring the maintenance of an acceptable level of quality of the web site displays, printed literature, and other materials, and the Courses, on or in connection with which the "LabVIEW Academy" Logo and/or "LabVIEW Academy" name are displayed, Institution shall submit, at no charge, representative specimens of such materials and Course-related materials to NI for review, as may be requested by NI from time to time, and to permit NI representatives to attend Course sessions at no charge to such extent as may be reasonable for such purpose. Institution agrees to comply with Exhibit B hereto and any and all other requirements, guidelines and instructions provided or made available by NI to Institution from time to time, in each instance of Institution's display of the "LabVIEW Academy" Logo or "LabVIEW Academy" name.

5.3. Goodwill generated by any use by Institution of the "LabVIEW Academy" Logo or the "LabVIEW Academy" name and the Marks, inures solely to the benefit of NI, and no use thereof shall give Institution any right, title or interest in any of such logos, names, or Marks. Upon notice by NI, or in any event on any termination or expiration of this MoU, Institution shall immediately cease all display and use of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, and the Marks, and all advertising, promotional and sales literature bearing any of such logos, names, or Marks. In the event of a claim of infringement or violation of any intellectual or industrial property right involving the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, Institution agrees to make such modifications to the "LabVIEW Academy" Logo or the "LabVIEW Academy" name, or cease any and all display and use of them, as may be instructed by NI in writing. Institution acknowledges NI's ownership of the Marks and agrees to make no use thereof except as may be expressly permitted by this MoU. At NI's request, Institution agrees to reasonably cooperate with NI, at NI's reasonable expense, in NI's evidencing and protecting NI's rights in the Marks, including without limitation by providing, executing and delivering to NI any reasonably requested documents in furtherance thereof. Institution recognizes and acknowledges the goodwill appurtenant to use and/or ownership of the Marks, the validity of the Marks, NI's rights in the Marks, NI's registrations for the Marks (if any), and the distinctiveness of Marks. Institution agrees to take no action to attack, contest or undercut NI's ownership or the validity of any of the Marks or any applications to register or registrations thereof, or which would tend to destroy or diminish the goodwill in any of the Marks. Without limiting the generality of the foregoing, Institution shall not during the term of this MoU or thereafter:

- (a) apply to register or maintain any application or registration of any of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, any Mark, or any mark confusingly similar to any Mark, in any jurisdiction, domestic or foreign;
- (b) take any action that may tend to imply or express that Institution is the owner of any Mark or that Licensee has any right, title or interest in ownership or usage in any Mark;
- (c) use or register an internet domain using, containing, or confusingly similar to the "LabVIEW" Academy name, or any Mark;
- (d) misuse any Mark;
- (e) use the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark in any manner which may diminish the goodwill appurtenant in any Mark, or disparage NI or NI's business or any of NI's products or services;
- (f) use any colorable imitation or variant form of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, not specifically approved in writing by NI;
- (g) alter or deface the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark in any way except as may be instructed in writing by NI; or
- (h) use, in connection with the manufacture, sale, distribution, or promotion of any products or services (except display of the "LabVIEW Academy" Logo and the "LabVIEW Academy" name in connection with the Courses to the extent expressly permitted in this MoU) the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, or any mark or name confusingly similar to any of them.

5.4. Institution may not take any action against a third party in relation to the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, without NI's prior written consent. NI undertakes no obligation to register or apply to register, or to maintain any registrations of, the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark in any jurisdiction. Institution will, immediately upon becoming aware, give full written particulars to NI of (a) any allegation that the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark infringes the rights of any third party, or (b) any unauthorized use of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or a Mark by a third party. Institution will not make any allegation, admission, settlement, or comment in respect of any such matter without the prior written consent of NI. Unless specifically and expressly waived in accordance with Section 15, NI will have sole right to control the prosecution, defense and any settlement of any claim, dispute or proceedings related to the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or a Mark, including but not limited to NI's sole discretion regarding whether to implement any action and whether or not to bring or defend, or settle or attempt to settle, any claim, dispute or proceeding.

6. No Other Licenses. Institution acknowledges that all intellectual and industrial property rights, including but not limited to any copyrights and trademarks, which relate to the Materials, belong to and are retained by NI or NI's subsidiaries, as applicable. No rights, licenses or permissions, express, implied or by estoppel, are granted by NI except for the limited licenses expressly set forth in this MoU. All rights not expressly permitted to Institution in this MoU are reserved to NI.

7. Warranty Disclaimer. **INSTITUTION ACKNOWLEDGES AND AGREES THAT THE LICENSES, MATERIALS AND INFORMATION PROVIDED BY NI ARE AND WILL BE PROVIDED ON AN "AS IS" BASIS AND WITHOUT WARRANTY OF ANY KIND, AND NO WARRANTIES, EXPRESS OR IMPLIED, ARE MADE WITH RESPECT TO SUCH LICENSES, MATERIALS OR INFORMATION, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, OR ANY OTHER WARRANTIES THAT MAY OTHERWISE ARISE FROM USAGE OF TRADE OR COURSE OF DEALING; ANY AND ALL OF WHICH IMPLIED AND STATUTORY WARRANTIES ARE HEREBY DISCLAIMED, TO THE FULL EXTENT PERMITTED BY LAW.**

8. Term and Termination.

8.1. Term. This MoU shall commence on the Effective Date and continue for twenty-four (24) months unless terminated earlier. Either party may notify the other party in writing of early termination of this MoU by a prior notice of not less than three months prior to the effect of such termination.

8.2 Termination. Notwithstanding Section 8.1, if, during this MoU, including renewal terms, either party breaches this MoU, the other party may terminate this MoU upon notice to such party if such breach has not been cured to the reasonable satisfaction of the other party within thirty (30) days following written notice of the breach. This MoU shall terminate immediately and automatically if the Institution suspends operations, is or becomes the subject any bankruptcy or similar proceeding, makes an assignment for the benefit of creditors, or is adjudicated bankrupt or insolvent.

8.3 Effect. The following sections and subsections shall survive any termination or expiration of this MoU: 2.2, 5.3, 5.4, 6, 7, 8.3, 9, 10, 11, 12, 13, 14 and 15.

## 9. INDEMNITY; LIMITED LIABILITY.

9.1 Indemnity By Institution. Institution shall indemnify, defend and hold NI harmless for (a) any damage, expense (including reasonable attorneys' fees), loss, or injury (collectively, "Losses") arising from or in connection with any failure to comply with any of the provisions of Section 5 or any of its subsections; and (b) Losses claimed or sustained by Institution, a Student or other third-party relating to or arising from any Courses or any activities related thereto; however the same may be caused, including without limitation wholly or partially by the fault, negligence or strict liability of NI or others; provided that NI promptly notifies Institution of such claim, and provides Institution with the authority, assistance, and information Institution needs to defend or settle such claim. Institution shall not be liable for a settlement made without its prior written consent.

9.2 Indemnity By NI. NI shall indemnify, defend and hold Institution harmless for any claim by a third party that the Materials, as provided by NI, infringe such third party's United States copyrights; provided that such claim does not arise from use of the Materials other than as expressly permitted in this MoU, from any use or combination of the Materials with other materials not provided by NI, or from modification of the Materials not made by NI; and provided that Institution promptly notifies NI of such claim, and provides NI with the authority, assistance, and information NI needs to defend or settle such claim. NI shall not be liable for a settlement made without its prior written consent. This Subsection 9.2 states Institution's sole remedy for, and NI's entire liability and responsibility for, infringement of any patent, trademark, copyright, or other intellectual or industrial property right relating to the Materials. **THIS LIMITED INDEMNITY IS IN LIEU OF ANY OTHER STATUTORY OR IMPLIED WARRANTY OR REMEDY AGAINST INFRINGEMENT.**

9.3 Liability. **EXCEPT AS PROVIDED IN SUBSECTION 9.2, IN NO EVENT SHALL NI BE LIABLE FOR ANY DIRECT, ACTUAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, DATA OR DATA USE, INCURRED BY INSTITUTION, OR ANY STUDENT OR OTHER THIRD PARTY, ARISING FROM THIS MOU, WHETHER IN AN ACTION IN CONTRACT OR TORT, EVEN IF NI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND EVEN IF CAUSED BY THE FAULT, NEGLIGENCE OR STRICT LIABILITY OF NI OR OTHERS. IN NO EVENT SHALL NI'S LIABILITY UNDER THIS MOU EXCEED, IN THE AGGREGATE, THE AMOUNT OF US\$1,000 (ONE THOUSAND U.S. DOLLARS).**

10. Independent Contractors; Freedom of Action. Institution and NI are independent contractors to one another and nothing herein shall be deemed to create an agency, partnership, joint venture, franchise or employment relationship between NI and Institution or its personnel, and neither party shall represent to the contrary, either expressly, implicitly, by appearance or otherwise. Institution acknowledges, represents, and agrees that it has not paid, and will not pay, any fee to enter into this MoU. The licenses, rights and permissions granted to Institution under this MoU are nonexclusive. NI may provide identical or similar licenses to others. Further, NI may itself, or with others, (including without limitation other educational institutions), provide, deliver and/or teach courses that are the same as, or similar to, the Courses, or engage in other activities described in this MoU.

11. Assignment. Each party understands and acknowledges that this MoU is personal to the parties and accordingly, except for NI's right to assign this MoU to a related entity, neither party may assign this MoU (in whole or part)

without the prior written consent of the other and any attempt to do so shall be void. Institution may not delegate or subcontract any of its obligations under this MoU without NI's prior written consent.

12. Dispute Resolution. This MoU shall be construed under the laws of India. Any dispute or claim arising out of or in connection herewith, or the breach, termination or invalidity thereof, shall be settled by a sole arbitrator, in accordance with the provisions of the Arbitration and Conciliation Act, 1996. The place of arbitration shall be Bangalore and the arbitration proceedings shall take place in the English language. The arbitration award is final and binding upon the parties and the parties undertake to carry out any arbitration award without delay and shall be deemed to have waived their right to any form of recourse insofar as such waiver can validly be made.

13. Notices. All notices which shall be given by either party under the terms of this MoU shall be in writing and be hand delivered, sent by facsimile transmission, overnight delivery, or sent by certified mail, return receipt requested, addressed to the receiving party at the address listed at the first page or to such other persons or addresses as may be designated by a party in writing. Notice shall be effective on the date it is received or receipt is confirmed or, if mailed as described above, no later than ten (10) days after the date of such mailing.

14. Compliance with Laws. Institution agrees to comply with all applicable laws, including without limitation United States export laws and regulations, in Institution's performance of, and exercise of rights under, this MoU.

15. Registration. If this MoU is required to be registered with authorities in India, Institution shall complete any such required procedures promptly.

16. Counterparts; Language; Amendment; Construction; Severability; Waiver. This MoU, together with the exhibits attached hereto and referred to herein, embodies the entire understanding between the parties regarding the subject matter hereof and supersedes all prior representations, discussions and communications, whether oral or written. This MoU may be executed in two counterparts, each of which taken together shall constitute one single MoU between the parties. This MoU is solely in the English language. Any translations into any other languages shall be of no effect in interpreting this MoU or otherwise. No amendment, change, alteration, or modification hereof may be made except in a writing signed by both parties. The headings used herein are for convenience only and shall not enter into the interpretation hereof. Each term and condition of this MoU will be construed in such manner to be valid, enforceable and in compliance with applicable law. If any provision of this MoU is deemed or held by a court of competent jurisdiction to be invalid or unenforceable in whole or in part, such construction will neither impair nor affect the validity or enforceability of any other provisions of this MoU. The failure to insist upon strict compliance with any of the provisions of this MoU shall not be deemed a waiver of any such provision, nor shall any waiver or relinquishment of any right or power hereunder, at any one or more times, be deemed a waiver or relinquishment of such right or power at any other time or times. No waiver of any right under this MoU is effective unless made in writing, signed by an authorized representative of the waiving party and dispatched to the benefiting party in accordance with Section 13.

EXECUTED as of the Effective Date set forth above.

NI Systems (India) Pvt. Ltd.

MVGR College of Engineering, Vizianagaram

Signature:

**Mr. Solaikutty Dhanabal**, Academic Manager

Name and Title:

Date: 14/06/13

Signature:

**Dr. K.V.L. Raju**, Principal

Name and Title:

Date: 14/06/13

## EXHIBIT A

### INSTRUCTIONAL MATERIALS:

As determined and provided by NI.

- supplemental LabVIEW questions—Copying Permitted for Course Use
- Instructor version of the Student Workbook (PDF)—Instructor Use Only
- Student workbook version (PDF)—Copying Permitted for Course Use]

### OBJECTIVES:

Institution agrees to set up the ACADEMY, which is expected to meet the following goals:

- 1) To pursue training activities related to user education and training in areas mutually agreed to by INSTITUTION and NI. Initially the ACADEMY will begin activities in the area of user training in LabVIEW.
- 2) To strengthen the collaboration between INSTITUTION and NI, which may encourage undertaking of teaching projects and INSTITUTION to pursue its objectives of advancement and creation of knowledge through use of the facilities developed under the ACADEMY.
- 3) To organize courses/workshops/seminars every year on various aspects of Algorithm Engineering and Graphical System Design.

### COMMITMENTS OF NI:

- 1) NI may provide free of cost technical consultancy (no more than a reasonable period of time solely determined by NI) for establishment of ACADEMY at INSTITUTION.
- 2) NI agrees to provide free training (no more than 5 days) to 5 faculty of the ACADEMY on LabVIEW Fundamentals and further to waive off the first CLAD exam attempt fees of such 5 faculty.
- 3) NI agrees to provide start-up assistance (no more than a reasonable period of time solely determined by NI) at INSTITUTION during installation of NI products at the ACADEMY either directly or through its channel partners.
- 4) Once the ACADEMY qualifies for the criteria required for a LabVIEW Academy, NI agrees to provide 50% discount in CLAD (Certified LabVIEW Associate Developer) exam fee for the students & faculties of ACADEMY who got trained under ACADEMY.
- 5) NI agrees to provide free technical support over phone and e-mail on NI products and their usage for various measurements and control.
- 6) NI may support INSTITUTION in conducting training programs for industry representatives approved by NI.

### COMMITMENTS OF INSTITUTION:

- 1) INSTITUTION agrees to use this ACADEMY as common facility for the entire campus and there will be Courses conducted for various engineering disciplines.
- 2) INSTITUTION agrees to appoint dedicated CLAD Certified instructor to conduct the Course in the ACADEMY
- 3) INSTITUTION agrees to provide computers and all other necessary infrastructure for the ACADEMY and all will be networked with structured cabling and Ethernet Switch.
- 4) INSTITUTION agrees to offer devoted human resources to impart compulsory or elective level through at least one 3-credit course on Virtual Instrumentation for all disciplines.
- 5) INSTITUTION also agrees to ensure the development of teaching demonstrations, application notes and project work through students and faculty of INSTITUTION using the facilities provided by ACADEMY.

### JOINT EFFORTS:

- 1) An official of INSTITUTION to be nominated and appointed by mutual consent of INSTITUTION and NI will coordinate the activities of the ACADEMY.
- 2) Both INSTITUTION and NI shall permit their respective experts to contribute in the teaching/training programs conducted by either organization through mutual consent.

## EXHIBIT B

1. LabVIEW Academy Logo:

The “LabVIEW Academy” logo is set out below for identification (the “SAMPLE” watermark is not part of the logo—the artwork for the logo will be made available after execution of this MoU by Institution and NI):



2. Requirements:

In addition to the other requirements of this MoU with respect to the use of the “LabVIEW Academy” Logo, the “LabVIEW Academy” name, and the Marks, Institution agrees to comply with the guidelines at <http://www.ni.com/legal/trademarks/> and any and all other guidelines that may be provided or made available by NI to Institution from time to time, and to include, in prominent type and font as specified by NI, the following legend in all materials on or in connection with which the “LabVIEW Academy” Logo or the “LabVIEW Academy” name are used:

“LabVIEW”, “National Instruments”, and the “LabVIEW” logo design are trademarks of National Instruments Corporation, and are used, as part of the “LabVIEW Academy” logo and the “LabVIEW Academy” name, with the permission of National Instruments Corporation. [name of Institution], not National Instruments Corporation, is solely responsible for the courses offered by [name of Institution], including without limitation those teaching the use of the LabVIEW™ software, and all materials, content, software, and code contained in or made available through this document or web site. Neither [name of Institution], nor any courses or other goods or services offered by [name of Institution], are affiliated with, endorsed by, or sponsored by National Instruments Corporation.

# 2016-17

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**MAHARAJ VIJAYARAM GAPATHI RAJ COLLEGE OF ENGINEERING(AUTONOMOUS)**

Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram-535005, Andhra Pradesh

**Accredited by NAAC with 'A' Grade & Listed u/s 2(f) & 12(B) of UGC**

**(Approved by AICTE, New Delhi and Permanently Affiliated by JNTUK-Kakinada)**

NBA Accredited UG Courses: B.Tech(MEC), B.Tech(CIV), B.Tech(EEE), B.Tech(ECE), B.Tech(CSE), B.Tech(IT),  
B.Tech(MEC) & B.Tech(CHE) and PG Course: MBA



College Code : 33

# Maharaj Vijayaram Gajapathi Raj College of Engineering (Autonomous)

Reaccredited by NBA, NAAC with 'A' Grade of UGC,  
Approved by AICTE, New Delhi, and Permanently Affiliated to JNTU, Kakinada  
Listed U/S 2(f) & 12 (B) of the UGC Act 1956

## Service Level Agreement (SLA)

The Service Level Agreement (SLA) is entered into on 10<sup>th</sup> February 2017 between **MaharajVijayaramGajapathi Raj (MVGR) College of Engineering (Autonomous), Vizianagaram, Andhra Pradesh** and **Focus Academy for Career Enhancement (FACE), No.12, Lakshmi Nagar, ThottipalayamPirivu, Avinashi Road, Coimbatore - 641014.**

**MVGR College of Engineering** is represented by the **Principal, Dr.K.V.L. Raju** and **FACE** is represented by **AvinashDuvvuri, Business Development Manager, Vizag**

**MVGR College of Engineering** and **FACE** decided to lay down the terms and conditions of the SLA with the following clauses. The terms and conditions are not limited to the following but new terms shall only be added with mutual consent of both the parties.

For MVGR College of Engineering

(Principal)

PRINCIPAL  
MVGR College of Engineering  
Vijayaram Nagar, Chintalavalasa  
VIZIANAGARAM-535005

For FACE

(Manager, Business Development)



### **Section 1 – Program and batch details**

<b>Full Name of College</b>	MaharajVijayaramGajapati Raj College of Engineering (A), Vizianagaram
<b>Program Name</b>	Stepping Stones Induction Program
<b>Total Program Duration (in Days)</b>	3 Days
<b>Total Program Duration (in Hours)</b>	18 Hours
<b>Degree and Passing out year of students to be trained</b>	Degree Freshman Batch (2020 Passout)
<b>Training Dates</b>	16th, 17th, 18th Feb 2017
<b>Semester of Study of students to be trained</b>	2nd Semester Students
<b>Total No of students attending the training (as per attached Batch-List)</b>	900 Students
<b>No of batches</b>	15
<b>Session Timings</b>	9:00 to 11:00, 11:15 to 13:15, 14:00 to 16:00

### **IMPORTANT:**

- Last minute changes in training dates will not be accommodated. Hence FACE recommends that the college should double-check and ensure that none of these fall during the training dates: 1. No Local / State / National holidays. 2. No Internal tests / examinations. 3. No college functions. (Ex: Sports day, Annual day) 4. No guest lecturers / special programs. 5. No placement / recruitment process
- Any request for change in training dates needs to be communicated to FACE at-least 7 working days in advance
- Even if communicated 7 working days in advance, FACE is not automatically liable to deliver the service on the revised dates. FACE will re-confirm the possibility of service delivery based on availability of trainers, ease of trainer travel and accommodation and other constraints
- Once the SLA is signed, our Account Manager (AM) from FACE Head-Office will be in touch with you to plan finer details of logistics. Details of the Account Manager (AM) are:
  - **Name:** Ms. Preethi
  - **Mobile Number:** +91 9626 3831 55
  - **Email ID:** [preethi.am@focusacademy.in](mailto:preethi.am@focusacademy.in)
- Batch List of students to be trained needs to be attached to this SLA. This is a mandatory requirement from FACE.

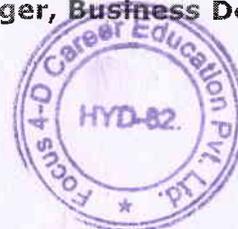
**DECLARATION:** I have read and understood **Section 1 – Program and batch details** and I agree to the same.

For MVGR College of Engineering

(Principal)  
PRINCIPAL  
MVGR College of Engineering  
Vijayaram Nagar, Chinthalavalasa  
VIZIANAGARAM-538005

For FACE

(Manager, Business Development)



## Section 2 – Billing Terms and Conditions

<b>Duration of Training Program (in days)</b>	3 Days
<b>Duration of Training Program (in Hours)</b>	18 Hours
<b>Training Dates</b>	16th, 17th, 18th Feb 2017
<b>Price Per Student</b>	Rs. 869.56
<b>Service Tax @ 15.0%</b>	Rs. 130.44
<b>Total Price (PTD) (inclusive of taxes)</b>	= Rs. 869.56+130.44 = Rs. 1,000
<b>No of students for whom materials will be sent (as per attached batch-list)</b>	900
<b>No of students to be billed (irrespective of attendance, since materials and trainer planning will happen according to batch-list)</b>	850
<b>Total Contract Value</b>	Rs.1,000 * 850 = Rs. 8,50,000
<b>Additional Students</b>	A maximum of 900 Students would be allowed. Any additional student other than 850 students would be charged accordingly

TDS can be deducted as per the norms *SURAVISH*

**NOTE:** After completion of program, FACE Finance Manager, Ms. Bavani will be in touch with the college SPOC for invoicing and payments. SPOC details are:

### FACE Finance Manager Details

- Name – Ms. Bavani
- Designation – Finance Manager
- Mobile No – +91 7708974180
- Email – [accountsmanager@focusacademy.in](mailto:accountsmanager@focusacademy.in)

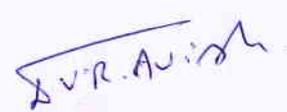
### MVGR College of Engineering Payment SPOC Details

- Name – Dr. M.Sunil Prakash
- Designation – Dean, T&P
- Mobile No – 09985093219
- Email - [deantp@mvgrce.edu.in](mailto:deantp@mvgrce.edu.in)

**DECLARATION:** I have read and understood **Section 2 - Billing Terms and Conditions** and I agree to the same.

  
For MVGR College of Engineering

*Sp* (Principal)  
**PRINCIPAL**  
MVGR College of Engineering  
Vijayaram Nagar, Chinthalavalasa  
VIZIANAGARAM-536005

  
For FACE

(Manager, Business Development)



**Section 3 – Payment Schedule – Terms & Conditions**

<b>Advance % Payable</b>	NA										
<b>Advance Amount Payable</b>	NA										
<b>Advance Payment Schedule</b>	NA										
<b>Last date for payment of advance amount (failing which the training will not be delivered)</b>	NA										
<b>Maximum Credit Period for Balance Payment</b>	2 weeks from the end Date of training										
<b>Last Date for Balance Payment</b>	<b>3rd March 2017</b>										
<b>Mode of Payment</b>	By Cheque or DD, favoring " <b>Focus 4-D Career Education Pvt. Ltd.</b> " Payable at Coimbatore OR By NEFT/ RTGS Transfer to:										
	<table border="1"> <tr> <td>Account Holder Name</td> <td>Focus 4-D Career Education Pvt. Ltd.</td> </tr> <tr> <td>Account No</td> <td>053109000142765</td> </tr> <tr> <td>Bank Name</td> <td>City Union Bank</td> </tr> <tr> <td>Branch Name</td> <td>Vilankurichi Branch</td> </tr> <tr> <td>IFSC Code</td> <td>CIUB0000053</td> </tr> </table>	Account Holder Name	Focus 4-D Career Education Pvt. Ltd.	Account No	053109000142765	Bank Name	City Union Bank	Branch Name	Vilankurichi Branch	IFSC Code	CIUB0000053
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	Account No	053109000142765									
	Bank Name	City Union Bank									
	Branch Name	Vilankurichi Branch									
IFSC Code	CIUB0000053										
<b>NOTE:</b> Cash payments will not be accepted											

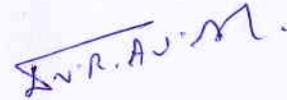
**DECLARATION:** I have read and understood **Section 3 - Payment Schedule - Terms and Conditions** and I agree to the same. I also agree that Disputes if any are subject to jurisdiction of Coimbatore courts only.



For MVGR College of Engineering

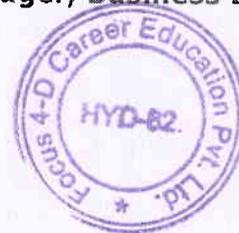
(Principal)

**PRINCIPAL**  
MVGR College of Engineering  
Vijayaram Nagar, Chinthalavalasa  
VIZIANAGAR-520005



For FACE

(Manager, Business Development)



**Section 4 – Travel and Logistics – Terms & Conditions**

<b>Trainer Travel to Vizianagaram</b>	<b>FACE</b> will take care
<b>Local conveyance from port of entry in Vizianagaram to place of stay</b>	<b>FACE</b> will Arrange cab
<b>Trainer Accommodation</b>	<b>FACE</b> will arrange in HOTEL
<b>Local Conveyance from place of stay to College and back</b>	<b>College</b> will arrange a CAB/Bus
<b>Food Arrangements (Breakfast, Lunch, Dinner)</b>	<b>Lunch</b> will be provided by the college
<b>Materials Printing (If any)</b>	FACE will take care
<b>Materials Dispatch (If Any)</b>	FACE will take care

**DECLARATION:** I have read and understood **Section 4 - Travel & Logistics - Terms and Conditions** and I agree to the same.

For MVGR College of Engineering

(Principal)

PRINCIPAL  
MVGR College of Engineering  
Vijayaram Nagar, Chinthalavalasa  
VIZIANAGARAM-535005

For FACE

(Manager, Business Development)





## MEMORANDUM OF UNDERSTANDING FOR LIFE SKILLS TRAINING

THIS MEMORANDUM OF UNDERSTANDING is made as on this 26<sup>th</sup> day of July, 2016, by and between

- 1) M/s 3 Orbs Solutions, Visakhapatnam, with its principal place of business at Visakhapatnam, MVP Colony, Vizag – 530017, herein called the "Vendor" in the MoU.

AND

- 2) Maharaj Vijayaram Gajapati Raj College of Engineering, Vizianagaram, an academic institute having a place of business at Chintalavalasa, Vizianagaram – 535005, herein called the "Client" in the MoU.

Nature of business is training and all reference to Training herein after is referred to as "Program."

### Background

The Vendor is a training firm engaged in Life Skills Training. The Vendor has expertise and experience in areas of training which would be beneficial to the passing out students from the colleges for seeking jobs, entrepreneurship and at various other personal and professional situations. The Vendor will carry out training at the college and employ their staff with relevant expertise and training material wherever applicable.

### Responsibilities of the Vendor:

Vendor shall render services as a Training Consultant and conduct programs on soft skills / life skills for Student Development for the 2<sup>nd</sup> year students of academic year 2016-2017 until the contract holds valid. Functions and instructions in connection with said services include the following:

- a) Training sessions to students for the entire Program duration (please refer to Annexure 1 which describes the program schedule)
- b) Consulting with and advising the Students/Staff/Program Coordinator with regard to the progress and observation during the program, student developmental needs, and any and all other aspects pertaining to the Program.

For 3 ORBS SOLUTIONS Engaging the participants and program coordinator allotted by the college.

Authorised Signatory

PRINCIPAL

Contact #s : +91 90521 97789, +91 74166 86789, +91 99998 98497  
MYGR College of Engineering  
Vijayaram Nagar, Chintalavalasa  
VIZIANAGARAM-535005

✉ support@3orbs.in    🌐 www.3orbs.in



# 3 orbs solutions

## Responsibilities of the Client:

The Client shall facilitate the presence of students attending the program for the entire duration as agreed and the functions in connection with this program include the following.

- a) Coordinating and discussing with the relevant stake holders, staff or HODs for setting time table and agenda for the program before the Vendor starts rendering the services.
- b) Ensuring presence of students for the program at the scheduled date and time.
- c) Allotting a single point of contact for the entire program who can be the coordinator in facilitating all aspects related to this program.

## Other mutual agreements:

### **Training Topics:**

Training topics rendered by the Vendor are shared by the Client (please refer Annexure 2) and the specific topics for each session will be decided based on thorough discussion and analysis which are mutually agreed by both parties.

### **Training frequency:**

Training will be rendered by the vendor for a period of 60 hours per batch spread across three semesters. The allotment and scheduling will be mutually discussed by both parties and agreed before it is implemented (please refer Annexure 3).

### **Session duration:**

Each session will be for up to two hours or three hours on a given day depending on the allotment of the groups by the client; and might change based on request from the Client and after mutual consensus.

### **Training Equipment:**

The Vendor shall carry a laptop and necessary software and material for the training. Handouts wherever necessary will also be given by the vendor.

The client shall supply the facility including the conference room, A/V aids and necessary stationary which include white boards, flip chart boards, markers, charts and any other need based requirements.

**For 3 ORBS SOLUTIONS**

  
Authorised Signatory

  
PRINCIPAL

MVGR College of Engineering  
Vijayanagara, Nellore District, Andhra Pradesh  
VIZIANAGARAM-535005

Contact #s : +91 90521 97789, +91 74166 86789, +91 99498 98497

📧 support@3orbs.in    🌐 www.3orbs.in



# 3 orbs solutions

## Trainees:

The 2<sup>nd</sup> year B. Tech students of all the branches in MVGR college as of academic year 2016-17 (an Annexure 4 with the list of students is attached), shall be trained in the mutually agreed topics.

## Professional Fees:

For the contractually agreed trainees, a fee of 1400INR + 15% tax will be charged per student for this program and has to be paid in three parts, the dates of which are mutually decided and agreed by both parties before the start of the program (please refer to annexure 5).  
All costs for the program shall be paid by Client directly to the vendor via cheque/Fund transfer to 3 Orbs Solutions/Kiran Babu P.

## Changes:

Any changes in training schedule related to attendance of participants, change in topics or anything in particular that may affect or disrupt the training schedule need to be addressed mutually in advance.

3 Orbs will not assume responsibility for any disruptions and changes owing to unforeseen and uncontrollable factors. However, the vendor will put its best efforts to attain normalcy with simultaneous support from client and without compromising scheduling of other batches.

## Clause of Confidentiality:

3 Orbs Solutions maintains high levels of confidentiality and pledges not to disclose any client specific data, company information or any sensitive information that may otherwise prove detrimental to the client brand, client profile and client market stand.

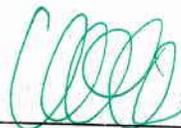
3 Orbs Solutions also urges the client not to disclose any service provider data, the professional charges, training materials, handouts, presentations, training tools or any other specific material that may otherwise prove detrimental to the service provider.

The foregoing correctly reflects the mutual understanding between the parties hereto, on this 26<sup>th</sup> day of July in the year 2016.

For 3 ORBS SOLUTIONS

  
Authorized Signatory

Vendor



Principal

MVGR College of Engineering  
Vijayaram Nagar, Chinthalavalasa  
VIZIANAGARAM-535005

Contact #s : +91 90521 97789, +91 74166 86789, +91 99498 98497

support@3orbs.in www.3orbs.in

### SERVICE AGREEMENT

This SERVICE AGREEMENT is made and entered into this 20-June, 2016

#### BY AND BETWEEN

**Conduira Education & Training Services Private Limited**, a company incorporated under the [Indian] Companies Act, 1956, having its registered office at Plot No.1024 & 1024/1, Road No. 45, Jubilee Hills, Hyderabad – 500 033 (hereinafter referred to as 'CETS', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and assigns) of the FIRST PART;

AND

**MVGR College of Engineering, Chintalavalasa, Vizianagaram** organized under the Indian Laws having its principal place of business at Vizianagaram, Andhra Pradesh - 535005, INDIA (hereinafter referred to as 'Member', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and permitted assigns) of the SECOND PART.

(CETS and Member are hereinafter collectively referred to as "the Parties" and severally as "Party")  
WHEREAS CETS is inter alia in the business of providing e-learning solutions and is responsible for the functioning of its websites [www.conduira.com](http://www.conduira.com), and [www.conduiraonline.com](http://www.conduiraonline.com).

WHEREAS Member is in the business of 'Education Provider' and is desirous of taking service from CETS as described here under, on the terms agreed and contained herein;

WHEREAS the Parties intend to facilitate CETS's e-learning solution

NOW, THEREFORE, IN CONSIDERATION OF THE PROMISES AND THE MUTUAL COVENANTS, AGREEMENT HEREINAFTER SET FORTH, THE PARTIES INTENDING TO BE LEGALLY BOUND, HEREBY AGREE AS FOLLOWS:

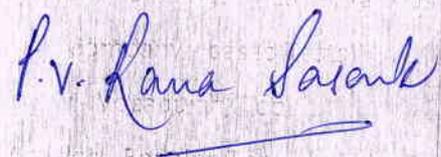
**1. SERVICE DETAILS:**

The details of the service that Member has agreed to take from CETS are as follows ("Service"):

Member Name :	MVGR College of Engineering, Chintalavalasa, Vizianagaram
Service:	Access to CETS' <a href="http://conduiraonline.com">conduiraonline.com</a> services as elaborated below
Start Date :	20-June 2016
End Date :	20-June, 2017
Number of Logins	642

Item#	Product	Features Included
1.	Online Campus Recruitment Training	<ul style="list-style-type: none"> <li>✓ Student Access to               <ul style="list-style-type: none"> <li>○ Learning Center                   <ul style="list-style-type: none"> <li>▪ 400+ Learning Videos</li> <li>▪ 180 Topic Tests</li> </ul> </li> <li>○ Test Center                   <ul style="list-style-type: none"> <li>▪ 60 Module Tests</li> <li>▪ 40 Section Tests</li> <li>▪ 20 Full-length Tests (Various Company - based Tests)</li> </ul> </li> <li>○ Wow - Vocabulary Tool</li> <li>○ Articles - Reading Tool</li> </ul> </li> <li># College Admin Login Access</li> </ul>

Price of Service (per login)	Rs. 999+ Service Tax
Value of Service (for 642 logins)	Rs. 6,41,358
Add: Service Tax (as per GOI norms, 14%)	Rs. 89,790

Add: Swachh Bharat Tax (as per GOI norms, 0.5%)	Rs. 3,207
Add: Krishi Kalyan Tax (as per GOI norms, 0.5%)	Rs. 3,207
<b>Total Invoice value (including service tax for 642 logins)</b>	<b>Rs. 7,37,562</b>

**2. PRICE:**

In consideration of the Service as per Clause 1 above, the Member agrees to pay to CETS a sum of Seven Lakhs thirty seven thousand five hundred and sixty two Rupees only (including Service Tax) – as per the details mentioned above. This pricing applies to the current service offering only and may be subject to revision for subsequent transactions.

**3. TERM:**

This Agreement shall be valid for Twelve months and be in force from 20-June, 2016 till 20-June, 2017("Term")

**4. PAYMENT TERMS:**

The Member shall pay the Total Price to CETS, as per the following payment terms:

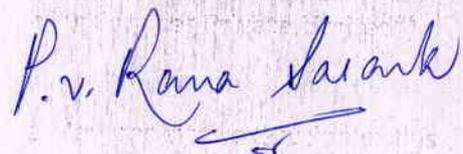
Payment Due Date	Value of Service	Total Invoice Value Including Service Tax
27-06-2016	Rs. 6,41,358	Rs. 7,37,562

(All payments to be made in favor of "Conduira Education & Training Services Private Limited")

- (b) An invoice for the Total Price will be issued by CETS to the Member after execution of this Agreement at the abovementioned address unless otherwise a different address for billing is specified by Member under section "Member's Address for Invoicing/Correspondence" herein below and shall be payable as per the aforesaid payment terms. All invoices are payable to CETS in full, on or before the due date of the invoice as per the said payment terms. In the event any payment is not made within the said period, CETS shall, without prejudice to its other rights under this Agreement or in law, have the right to terminate this Agreement and / or deactivate Member's account without any liability to Member.



P. v. Rama Sarank



**Member's Address for Invoicing / Correspondence:**

MVGR College of Engineering

Chinatalavalasa, Vizianagaram

Andhra Pradesh state-535005, India.

**Contact Name:** Dr.M. Sunil Prakash

**Email:** deantp@mvgrce.edu.in

**Tel-** +91-9985093219

**5. IMPLEMENTATION AND TRAINING:**

- (a) CETS may either through its officials or authorized representative formally visit the Member's office premises for implementation and / or for any other purpose.
- (b) CETS would provide the necessary training for the moderators selected by the Member for successful implementation of the Service at the start of the program. This training would include how to manage moderator and student logins, manage the workflow, and escalate issues to CETS as detailed in Clause 7(i).

**6. CETS' OBLIGATION:**

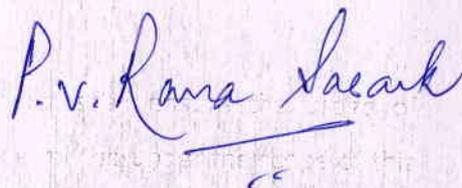
- (a) To provide online customized platform to the Member on [www.conduiraonline.com](http://www.conduiraonline.com) (website)
- (b) To assist Member for online implementation of e-learning solution for registered users as per the agreed Day Plan.
- (c) Provide the following assistance to Member on issues raised as per Clause 7 (i) related to the implementation of e-learning solutions.
  - (i) Acknowledge the messages related to problem within 2 hours of their receipt from the Members
  - (ii) Address the Member's issues within 48 hours of the above acknowledgment



P. V. Rama Sankar  
Member

**7. MEMBER'S OBLIGATION:**

- (a) Member shall provide CETS the name of its authorized representative who shall serve as single point of contact with CETS.
- (b) Ensure update in the requisite format of all users in the Admin Module of [www.conduiraonline.com](http://www.conduiraonline.com) to provide login facility to the members.
- (c) The Member shall be responsible for appropriate use of the Services subscribed under this Agreement, and Terms & Conditions mentioned in [www.conduiraonline.com](http://www.conduiraonline.com).
- (d) Member further undertakes that the Services subscribed by it under this Agreement is solely for the purpose of its proper appropriation to the users and/or candidates and not for its commercial use / purpose.
- (e) No unauthorized/fraudulent use of user content: Member shall ensure the usage of content for lawful purposes and only for the purposes as permitted under the scope of this Agreement. Promotion of any illegal activity or marketing of products and other service purposes or spamming of the content by it except for the facilitation of services under this Agreement is also prohibited. CETS shall have the sole right to decide as to what constitute as a breach of these requirements by Member.
- (f) Member shall raise any operational issue hindering the implementation of the Service to CETS in writing using the "Help" section available in the website.



IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives in one or more counterparts, each of which shall constitute an original effective as of the day and year set forth above.

SIGNED ON BEHALF OF THE MEMBER :	SIGNED ON BEHALF OF CETS :
Name: Dr.M. Sunil Prakash	Name: P V Rama Sasank
Title / Designation: Dean- Training & Placements	Designation:Chief Product Officer
College: MVGR College of Engineering	Phone: 9000053678
Address: Chintalavalasa, Andhra Pradesh	Email: sasank@conduira.com
City & Pin Code: Vizianagaram-535005	Email: <u>deantp@mvgrce.edu.in</u>
Phone: 08922-241763/241732 /9985093219	 For CONDUIRA EDUCATION TRAINING SERVICES PVT. LTD <b>DIRECTOR</b>
Fax:	
Signature: 	
Dr. M. Sunil Prakash, ME, PhD Professor of ECE Dean T & P and PG Courses MVGR College of Engineering Vizianagaram-535 005	Signature: _____



### Service Level Agreement (SLA)

The Service Level Agreement (SLA) is entered into on 19<sup>th</sup> September 2016 between **Maharaj Vijayaram Gajapathi Raj (MVGR) College of Engineering (autonomous), Vizianagaram, Andhra Pradesh** and **Focus Academy for Career Enhancement (FACE), No.12, Lakshmi Nagar, Thottipalayam Pirivu, Avinashi Road, Coimbatore - 641014.**

*MVGR College of Engineering* is represented by the *Principal, Dr.K.V.L. Raju* and *FACE* is represented by *Avinash Duvvuri, Business Development Manager, Vizag*

*MVGR College of Engineering* and *FACE* decided to lay down the terms and conditions of the SLA with the following clauses. The terms and conditions are not limited to the following but new terms shall only be added with mutual consent of both the parties.

Disputes if any are subject to jurisdiction of Coimbatore courts only.

For MVGR College of Engineering

PRINCIPAL

MVGR College of Engineering (A)  
Vijayaramnagar, Chintalavalasa  
Vizianagaram-535005.

For FACE

(Manager, Business Development)

## Section 1 – Program and batch details

<b>Full Name of College</b>	MVGR College of Engineering
<b>Program Name</b>	TCS Company Specific Aptitude Cracker
<b>Total Program Duration (in Days)</b>	4 Days
<b>Total Program Duration (in Hours)</b>	24 Hours
<b>Degree and Passing out year of students to be trained</b>	B.E/ B.Tech, 2017 Pass-out Students
<b>Training Dates</b>	26 <sup>th</sup> , 27 <sup>th</sup> , 28 <sup>th</sup> , 29 <sup>th</sup> September 2016
<b>Semester of Study of students to be trained</b>	7 <sup>th</sup> Semester Students
<b>Total No of students attending the training (as per attached Batch-List)</b>	700 Students (Approx)
<b>No of batches</b>	7
<b>Session Timings</b>	9:00 to 12:00 ; 13:00 to 16:00

### **IMPORTANT:**

- Last minute changes in training dates will not be accommodated. Hence FACE recommends that the college should double-check and ensure that none of these fall during the training dates: 1. No Local / State / National holidays. 2. No Internal tests / examinations. 3. No college functions. (Ex: Sports day, Annual day) 4. No guest lecturers / special programs. 5. No placement / recruitment process
- Any request for change in training dates needs to be communicated to FACE at-least 7 working days in advance
- Even if communicated 7 working days in advance, FACE is not automatically liable to deliver the service on the revised dates. FACE will re-confirm the possibility of service delivery based on availability of trainers, ease of trainer travel and accommodation and other constraints
- Once the SLA is signed, our Account Manager (AM) from FACE Head-Office will be in touch with you to plan finer details of logistics. Details of the Account Manager (AM) are:
  - **Name:** Ms. Preethi
  - **Mobile Number:** +91 9626 3831 55
  - **Email ID:** [preethi.am@focusacademy.in](mailto:preethi.am@focusacademy.in)
- Batch List of students to be trained needs to be attached to this SLA. This is a mandatory requirement from FACE.

**DECLARATION:** I have read and understood **Section 1 – Program and batch details** and I agree to the same.

**For MVGR College of Engineering**

**PRINCIPAL**  
(Principal)  
MVGR College of Engineering (A)  
Vijayaramnagar, Chintalavalasa  
Vijayanagar-535005.

**For FACE**

**(Manager, Business Development)**

## Section 2 – Billing Terms and Conditions

<b>Duration of Training Program (in days)</b>	4 Days
<b>Duration of Training Program (in Hours)</b>	24 Hours
<b>Training Dates</b>	26th, 27th, 28th and 29th September 2016
<b>Price Per Student per day</b>	Rs. 250
<b>Service Tax @ 15.0%</b>	Inclusive of all taxes
<b>Total Price (inclusive of taxes)</b>	Rs. 250 * 4 = Rs. 1000
<b>No of students for whom materials will be sent (if any)(as per attached batch-list)</b>	700 Students
<b>No of students to be billed (irrespective of attendance, since materials and trainer planning will happen according to batch-list)</b>	700 Students
<b>Total Contract Value</b>	=Rs.1000 * 700 = Rs. 7,00,000
<b>Additional Students</b>	Only students whose names are mentioned in the attached batch-list are allowed to attend the FACE classes. In case any student not in the batch-list attends, he or she will be billed Accordingly.

**NOTE:** After completion of program, FACE Finance Manager, Ms. Bavani will be in touch with the college SPOC for invoicing and payments. SPOC details are:

### FACE Finance Manager Details

- Name – Ms. Bavani
- Designation – Finance Manager
- Mobile No – +91 7708974180
- Email – [accountsmanager@focusacademy.in](mailto:accountsmanager@focusacademy.in)

### MVGR College of Engineering Payment SPOC Details

- Name – Dr. Sunil Prakash
- Designation – Dean, T&P
- Mobile No – 09985093219
- Email - [deantp@mvgrce.edu.in](mailto:deantp@mvgrce.edu.in)

**DECLARATION:** I have read and understood **Section 2 - Billing Terms and Conditions** and I agree to the same.

  
For MVGR College of Engineering

PRINCIPAL  
MVGR (Principal) Engineering (A)  
Vijayaramnagar, Chintalavalasa  
Vizianagaram-535005.

  
For FACE

(Manager, Business Development)

**Section 3 - Payment Schedule - Terms & Conditions**

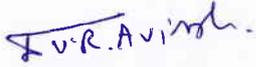
<b>Advance % Payable</b>	NA									
<b>Advance Amount Payable</b>	NA									
<b>Advance Payment Schedule</b>	NA									
<b>Last date for payment of advance amount (failing which the training will not be delivered)</b>	<b>NA</b>									
<b>Maximum Credit Period for Balance Payment</b>	2 weeks from the end Date of training									
<b>Last Date for Balance Payment</b>	<b>12th October 2016</b>									
<b>Mode of Payment</b>	By Cheque or DD, favoring " <b>Focus 4-D Career Education Pvt. Ltd.</b> " Payable at Coimbatore OR									
	By NEFT/ RTGS Transfer to: <table border="1"> <tr> <td>Account Holder Name</td> <td>Focus 4-D Career Education Pvt. Ltd.</td> </tr> <tr> <td>Account No</td> <td>053109000142765</td> </tr> <tr> <td>Bank Name</td> <td>City Union Bank</td> </tr> <tr> <td>Branch Name</td> <td>Vilankurichi Branch</td> </tr> <tr> <td>IFSC Code</td> <td>CIUB0000053</td> </tr> </table>	Account Holder Name	Focus 4-D Career Education Pvt. Ltd.	Account No	053109000142765	Bank Name	City Union Bank	Branch Name	Vilankurichi Branch	IFSC Code
Account Holder Name	Focus 4-D Career Education Pvt. Ltd.									
Account No	053109000142765									
Bank Name	City Union Bank									
Branch Name	Vilankurichi Branch									
IFSC Code	CIUB0000053									
<b>NOTE:</b> Cash payments will not be accepted										

**DECLARATION:** I have read and understood **Section 3 - Payment Schedule - Terms and Conditions** and I agree to the same. I also agree that Disputes if any are subject to jurisdiction of Coimbatore courts only.

  
For MVGR College of Engineering

**PRINCIPAL**

MVGR College of Engineering (A)  
Vijayarani Nagar, Chintalavalasa  
Vizianagaram-535005.

  
For FACE

**(Manager, Business Development)**

**Section 4 – Travel and Logistics – Terms & Conditions**

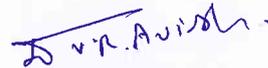
<b>Trainer Travel to Vizag</b>	FACE will take care
<b>Local conveyance from port of entry in Vizag to place of stay</b>	FACE will arrange Cab
<b>Trainer Accommodation</b>	FACE to take care
<b>Local Conveyance from place of stay to College and back</b>	College will arrange Internal Travel
<b>Food Arrangements (Breakfast, Lunch, Dinner)</b>	Lunch will be provided
<b>Materials Printing (If any)</b>	FACE will take care
<b>Materials Dispatch (If any)</b>	FACE will take care

**DECLARATION:** I have read and understood **Section 4 - Travel & Logistics - Terms and Conditions** and I agree to the same.



**For MVGR College of Engineering**

**PRINCIPAL**  
**(Principal)**  
MVGR College of Engineering (A)  
Vijayaramnagar, Chintalavalasa  
Vizianagaram-535005,



**For FACE**

**(Manager, Business Development)**

भारत सरकार  
अंतरिक्ष विभाग  
**भारतीय सुदूर संवेदन संस्थान**  
4, कालीदास मार्ग, पो. बाक्स सं. 135  
देहरादून- 248 001, भारत  
दूरभाष : +91-135-2524399  
फैक्स : +91-135-2741987, 2748041



Government of India  
Department of Space

**Indian Institute of Remote Sensing**  
4, Kalidas Road, P.B. No. 135,  
Dehradun - 248 001, India  
Telephone : +91-135-2524399  
Fax : +91-135-2741987, 2748041

Dr. Prakash Chauhan  
Director

No.: IIRS/GIT&DL/EDUSAT/2018/36  
Date: July 18, 2018

**विषय:** "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" पर 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम की घोषणा"

**Sub:** Announcement of 36th IIRS Outreach Program on "Basics of Remote Sensing and Digital Image Analysis" commencing from August 20, 2018.

Dear Sir/ Madam,

पृथ्वी अवलोकन (ई.ओ.) भारतीय अन्तरिक्ष अनुसंधान संस्थान का एक महत्वपूर्ण कार्यक्रम है जिसके अंतर्गत पिछले पचास वर्षों में कई उपग्रहों को अन्तरिक्ष में प्रक्षेपण किया गया है। इन उपग्रहों से प्राप्त आकड़ों का उपयोग प्राकृतिक संसाधन व आपदा प्रबंधन में किया जाता है। भारतीय सुदूर संवेदन संस्थान (भा.सु.सं.सं.) भूस्थानिक प्रौद्योगिकी के अंतर्गत शिक्षण, प्रशिक्षण तथा क्षमता संवर्धन को समर्पित एक महत्वपूर्ण संस्थान है। इस संस्थान द्वारा अब तक 35 उपग्रह एवं इंटरनेट आधारित आउटरीच पाठ्यक्रम संचालित किए जा चुके हैं। इन पाठ्यक्रमों से अबतक 806 भारतीय विश्वविद्यालयों/ संस्थानों के करीब 72000 से अधिक प्रतिभागी लाभान्वित हुए हैं। इस कार्यक्रम को आगे बढ़ाते हुए हम सहर्ष 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम को प्रारंभ करने की घोषणा करते हैं। 20 अगस्त, 2018 से प्रारम्भ होने वाला यह कार्यक्रम "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" है। यह कार्यक्रम कार्यरत पेशेवरों तथा छात्रों हेतु लक्षित है। यह कार्यक्रम प्रतिभागियों को अपने कार्यस्थल पर रहते हुये ज्ञान को समृद्ध करने का एक अनूठा अवसर प्रदान करेगा।

The Indian Space Research Organisation (ISRO) has a vibrant Earth Observation (EO) programme since last 50 years with the launch of several satellite missions. The Indian Remote Sensing Satellite (IRS) series of satellites provide space based information for monitoring and management of natural resources and Disaster Management Support. The Indian Institute of Remote Sensing (IIRS) is a premier Institute under ISRO engaged in training, education and capacity building on use of geospatial technology for natural resources monitoring and disaster management since last five decades. The institute has so far conducted 35 Satellite and Internet based Outreach Programmes, benefitting more than 72,000 participants from 806 Indian Universities/ Institutions/User Departments/User Ministries in India. To promote the use of geospatial technology, IIRS announces the 36<sup>th</sup> IIRS Outreach programme on "Basics of Remote Sensing and Digital Image Analysis" commencing on August 20, 2018. The course is targeted to working professionals and students and will provide a unique opportunity to the learners to enhance their knowledge by attending the course at their respective working places.

यह कोर्स तीन मॉड्यूलों में बंटा है रिमोट सेंसिंग और डिजिटल इमेज एनालिसिस, वैश्विक नेविगेशन सैटेलाइट सिस्टम और भौगोलिक सूचना प्रणाली और आरएस और जीआईएस एप्लीकेशन। कोर्स के दौरान पढ़ाये जाने वाले प्रमुख विषयों में रिमोट सेंसिंग, अर्थ अवलोकन सेंसर और प्लेटफॉर्म के बुनियादी सिद्धांत, विभिन्न भूमि कवर सुविधाओं के स्पेक्ट्रल हस्ताक्षर, छवि व्याख्या, थर्मल और माइक्रोवेव रिमोट सेंसिंग, डिजिटल इमेज प्रोसेसिंग, जीपीएस और जीएनएसएस का परिचय, रिसेीवर, प्रसंस्करण विधियों, भौगोलिक सूचना प्रणाली, डाटा बेस, टोपोलॉजी, स्थानिक विश्लेषण और ओपन सोर्स सॉफ्टवेयर और कृषि और मृदा, वानिकी और पारिस्थितिकी, जियोसाइंस और जिओहाजर्ड्स, समुद्री और वायुमंडलीय विज्ञान, शहरी और क्षेत्रीय अध्ययन और जल संसाधन में आरआईएस और जीआईएस एप्लीकेशन आदि सम्मिलित हैं। प्रतिभागी अपनी पसंद के मॉड्यूल या पूरे प्रमाणपत्र पाठ्यक्रम के लिए पंजीकरण कर सकते हैं।

The course consists of three modules namely Remote Sensing and Digital Image Analysis, Global Navigation Satellite System and Geographical Information System and RS and GIS Applications. The major topics covered will include Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Spectral Signature of different land cover features, Image interpretation, Thermal & Microwave Remote Sensing, Digital Image Processing, Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy, Geographic Information System, data bases,

topology, spatial analysis and open source software's and RS and GIS Applications in Agriculture and Soil, Forestry and Ecology, Geoscience and Geohazards, Marine and Atmospheric Sciences, Urban and Regional Studies and Water Resources. **The participants can register for individual module of their choice or the entire certificate course.**

अपने कार्यस्थल से प्रतिदिन डेढ़ घंटा समर्पित करके भूस्तरीय प्रौद्योगिक सीखने का यह एक अनोखा अवसर है। इस पाठ्यक्रम में **निशुल्क** भाग लिया जा सकता है। ए-व्यू सॉफ्टवेयर ([www.aview.in](http://www.aview.in)) का प्रयोग कर इंटरनेट के जरिए कार्यक्रम स्वतंत्र रूप से उपलब्ध हो सकता है। यह कार्यक्रम एनएनआरएमएस, अंतरिक्ष विभाग, और क्षमता निर्माण के लिए भारत सरकार द्वारा प्रायोजित है। पाठ्यक्रम पूर्ण करने पर प्रतिभागियों को आईआईआरएस. इसरो से प्रमाण पत्र के साथ सम्मानित किया जाएगा। यह कार्यक्रम 16:00-17:30 बजे के दौरान प्रतिदिन प्रसारित किया जाएगा। इस कोर्स की घोषणा, विवरणिका की एक प्रति आपके सहयोगियों और आपके विश्वविद्यालय/ संस्थान/ संगठन में परिसंचरण के लिए इसके साथ भेजी जा रही है। यह पाठ्यक्रम यूजी और पीजी छात्रों/ शोधकर्ताओं/ वैज्ञानिक/ तकनीकी कर्मचारियों और इच्छुक व्यक्तियों के लिए उपलब्ध है। इसके व्यापक प्रचार और आपके विश्वविद्यालय/ संस्थान/ संगठन से अधिकतम भागीदारी के लिए आपके समर्थन की आवश्यकता है।

It is a unique opportunity for participants to learn directly from their place of working by devoting an hour and a half each day. The course can be attended with **no cost** to the participants. Programme can be received live through internet by utilizing A-VIEW software ([www.aview.in](http://www.aview.in)) available freely or using live streaming from YouTube. This Programme is sponsored by NNRMS, Department of space, and Government of India for capacity building. The participants who successfully complete the course will be awarded a certificate from IIRS, ISRO. The programme is scheduled during 1600 Hrs.-1730 Hrs. A copy of the announcement brochure of this course is forwarded herewith for your kind perusal and for circulation in your university/institute/organisation. The course is open to UG & PG students/researchers/scientific/technical staff and interested individuals. We need your support for wide publicity and maximum participation from your university/ institute/Organisation.

यदि आपको कार्यक्रम के बारे में और जानकारी की आवश्यकता है, तो कृपया संपर्क करने में संकोच न करें

डॉ. हरीश कर्नाटक, प्रमुख, भू-वेब सेवाएँ, सूचना प्रौद्योगिकी तथा दूरस्थ अधिगम विभाग

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

डॉ. पूनम एस तिवारी, कार्यक्रम समन्वयक, आईआईआरएस आउटरीच प्रोग्राम

Ph. 0135-2524115 (Office), M: +91 9410924417 or email- [poonam@iirs.gov.in](mailto:poonam@iirs.gov.in)

एडीयूसैट स्टूडियो / कंट्रोल रूम [श्री जनार्दन विश्वकर्मा और श्री अशोक घिल्लियाल]

Ph.: 0135-2524130, email: [dlp@iirs.gov.in](mailto:dlp@iirs.gov.in)

In case you need any further information about the programme, please feel free to contact:

**Dr. Harish Karnatak**, Head, Geoweb Services, IT & Distance Learning Department

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

**Dr. Poonam S. Tiwari**, Programme Coordinator, IIRS Outreach Programme

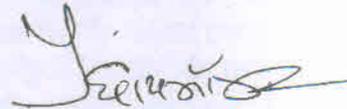
Ph. 0135-2524334 (Office), M: +91 9410924417 or email- [poonam@iirs.gov.in](mailto:poonam@iirs.gov.in)

**EDUSAT Studio/Control Room** [Shri Janardan Vishwakarma & Shri Ashok Ghildiyal]

Ph.: 0135-2524130, email: [dlp@iirs.gov.in](mailto:dlp@iirs.gov.in)

You may also visit IIRS website [http //www.iirs.gov.in/Edusat-News](http://www.iirs.gov.in/Edusat-News) for further details.

With regards and best wishes,



(Prakash Chauhan)  
Director

संलग्नक/Encl.: कार्यक्रम विवरणिका तथा अनुसूची/ Course Brochure and Schedule

MEMORANDUM OF UNDERSTANDING FOR COLLABORATION BETWEEN  
NI SYSTEMS (INDIA) PVT LTD, BANGALORE  
&  
MAHARAJ VIJAYARAM GAJAPATHI RAJ COLLEGE OF ENGINEERING, VIZIANAGARAM

This MoU Regarding LabVIEW Academy Program ("MoU") is made by and between Maharaj Vijayaram Gajapathi Raj College of Engineering, having the campus at Vizianagaram, Andhra Pradesh represented by its Dr. K.V.L.Raju, Principal ("Institution") and NI Systems (India) Pvt. Ltd. ("NI"), a company incorporated under the Companies Act, 1956 of India, having its registered office at 81/1 & 82/1, Salarpuria Softzone, Wing B, 5th Floor, Block A, Bellandur, Varthur Hobli, Bangalore 560 037 represented by **Mr. Solaikutty Dhanabal**, Academic Manager, effective as of 14<sup>th</sup> June, 2013 (the "Effective Date").

1. Institution; Courses. Institution warrants and represents that it is a degree-granting educational institution. During the Term (as defined below), Institution agrees to offer and conduct courses for academic purposes at Institution's facilities, in a professional manner, teaching the use of the NI LabVIEW software, which courses must not be for commercial, corporate or "customer" training purposes and must (a) be taught by an instructor who is then currently a Certified LabVIEW Associate Developer (the Certified LabVIEW Associate Developer certificate needs to be updated every two years) who regularly teaches degree-fulfilling or continuing education courses to students enrolled in or taking continuing education courses at Institution ("Instructor"); (b) include at least 30 hours of instruction specifically directed to the use of the LabVIEW software; (c) be provided in accordance with a course syllabus reviewed and approved by NI; and (d) otherwise meet requirements provided or made available by NI to Institution from time to time (the "Courses"). Institution shall ensure no courses offered or provided are taught or introduced at the Institution which directly competes against the Courses.

2. Materials. Institution agrees to set up a NI LabVIEW Academy in field of Virtual Instrumentation, (hereinafter referred to as ACADEMY). NI agrees to provide to Institution the "Instructional Materials" identified on Exhibit A (the "Materials") solely for the purpose of Institution's teaching the Courses at ACADEMY and under the below conditions:

2.1. Subject to, and conditioned on Institution's compliance with, the terms of this MoU, NI hereby grants to Institution, and Institution hereby accepts, a nonexclusive, nontransferable, limited license, for the Term (as defined below) only, to (a) use the Materials for the sole purpose of teaching the Courses, (b) provide the Materials only to those students enrolled (or taking continuing education classes) at Institution and who are taking the Courses ("Students"), except that Institution may not to provide to any Students, or to any persons or entities other than Instructors, any Materials which are designated on Exhibit A as "Instructor Use Only", and (c) make a reasonable number of copies of only those Materials which are identified on Exhibit A as "Copying Permitted for Course Use", but only as necessary for the purpose set forth in this Subsection 2.1.

2.2. Institution hereby agrees not to itself, and not to encourage or assist Students or others to, (a) copy or reproduce any Materials except as expressly permitted in Subsection 2.1, (b) transfer, disseminate or distribute any Materials to any third-party, except Students to the extent expressly permitted in Subsection 2.1, or (c) use any Materials for any purpose other than the Courses. On any termination or expiration of this MoU, if NI requests, Institution shall, at Institution's sole cost and expense, return to NI all Materials identified on Exhibit A as "Instructor Use Only".

3. Required Software Products Not Included. Institution agrees to obtain from NI, at Institution's sole cost and expense, the necessary Academic Teaching Licenses (as described in the applicable National Instruments Software License MoU, available at [http://www.ni.com/pdf/legal/us/software\\_license\\_agreement.pdf](http://www.ni.com/pdf/legal/us/software_license_agreement.pdf)) to use the LabVIEW software in conducting the Courses; and to obtain from NI, or cause each of the Students to so obtain, at their sole cost and expense, the necessary Student Edition Licenses (as described in the applicable National Instruments Software License MoU) to use the LabVIEW software in the Courses. Institution agrees to comply with, and to cause the Students to comply with, such licenses, including without limitation ensuring that the licensed software is not used for any research, commercial, industrial, or other purpose prohibited by the applicable National Instruments Software License MoU. Except as may be expressly modified by this MoU, the terms and conditions of the

applicable National Instruments Software License MoUs govern Institution's, and the Instructors' and Students', uses of the LabVIEW software as related to the LabVIEW Academy Program and the Course.

4. Required Textbooks and Equipment Not Included. Institution further agrees to obtain and provide, at Institution's sole cost and expense, or to cause each of the Students to so obtain, at their sole cost and expense, textbooks acceptable to NI for use in the Course, as well as any hardware and software as required for the Course, and other appropriate National Instruments equipment approved by NI. Such textbooks, hardware, software and National Instruments equipment approved by NI must be obtained separately and are subject to separate charges.

5. Name, Logo, and Trademarks.

5.1. Subject to, and conditioned on Institution's compliance with, the terms of this MoU, NI hereby grants to Institution, and Institution hereby accepts, a nonexclusive, nontransferable, limited license, for the Term (as defined below) only, to display the "LabVIEW Academy" Logo identified on Exhibit B hereto, the "LabVIEW Academy" name, any and all trademarks of NI therein, including without limitation, "LabVIEW", "National Instruments", and the "LabVIEW" logo design, only as part of, and as each appears in, the "LabVIEW Academy" Logo or the "LabVIEW Academy" name as the case may be (such trademarks being referred to as the "Marks"), solely in connection with providing, selling, promoting and advertising the Courses, solely on web site displays, printed literature, and other materials acceptable to NI and which are of an acceptable level of quality determined by NI in NI's sole discretion, and solely in accordance with Exhibit B hereto and any and all other guidelines and instructions provided or made available by NI to Institution from time to time. In no event may Institution display or use any Mark except as part of, and as it appears in, the "LabVIEW Academy" Logo or the "LabVIEW Academy" name as the case may be.

5.2. With a view to ensuring the maintenance of an acceptable level of quality of the web site displays, printed literature, and other materials, and the Courses, on or in connection with which the "LabVIEW Academy" Logo and/or "LabVIEW Academy" name are displayed, Institution shall submit, at no charge, representative specimens of such materials and Course-related materials to NI for review, as may be requested by NI from time to time, and to permit NI representatives to attend Course sessions at no charge to such extent as may be reasonable for such purpose. Institution agrees to comply with Exhibit B hereto and any and all other requirements, guidelines and instructions provided or made available by NI to Institution from time to time, in each instance of Institution's display of the "LabVIEW Academy" Logo or "LabVIEW Academy" name.

5.3. Goodwill generated by any use by Institution of the "LabVIEW Academy" Logo or the "LabVIEW Academy" name and the Marks, inures solely to the benefit of NI, and no use thereof shall give Institution any right, title or interest in any of such logos, names, or Marks. Upon notice by NI, or in any event on any termination or expiration of this MoU, Institution shall immediately cease all display and use of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, and the Marks, and all advertising, promotional and sales literature bearing any of such logos, names, or Marks. In the event of a claim of infringement or violation of any intellectual or industrial property right involving the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, Institution agrees to make such modifications to the "LabVIEW Academy" Logo or the "LabVIEW Academy" name, or cease any and all display and use of them, as may be instructed by NI in writing. Institution acknowledges NI's ownership of the Marks and agrees to make no use thereof except as may be expressly permitted by this MoU. At NI's request, Institution agrees to reasonably cooperate with NI, at NI's reasonable expense, in NI's evidencing and protecting NI's rights in the Marks, including without limitation by providing, executing and delivering to NI any reasonably requested documents in furtherance thereof. Institution recognizes and acknowledges the goodwill appurtenant to use and/or ownership of the Marks, the validity of the Marks, NI's rights in the Marks, NI's registrations for the Marks (if any), and the distinctiveness of Marks. Institution agrees to take no action to attack, contest or undercut NI's ownership or the validity of any of the Marks or any applications to register or registrations thereof, or which would tend to destroy or diminish the goodwill in any of the Marks. Without limiting the generality of the foregoing, Institution shall not during the term of this MoU or thereafter:

- (a) apply to register or maintain any application or registration of any of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, any Mark, or any mark confusingly similar to any Mark, in any jurisdiction, domestic or foreign;
- (b) take any action that may tend to imply or express that Institution is the owner of any Mark or that Licensee has any right, title or interest in ownership or usage in any Mark;
- (c) use or register an internet domain using, containing, or confusingly similar to the "LabVIEW" Academy name, or any Mark;
- (d) misuse any Mark;
- (e) use the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark in any manner which may diminish the goodwill appurtenant in any Mark, or disparage NI or NI's business or any of NI's products or services;
- (f) use any colorable imitation or variant form of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, not specifically approved in writing by NI;
- (g) alter or deface the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark in any way except as may be instructed in writing by NI; or
- (h) use, in connection with the manufacture, sale, distribution, or promotion of any products or services (except display of the "LabVIEW Academy" Logo and the "LabVIEW Academy" name in connection with the Courses to the extent expressly permitted in this MoU) the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, or any mark or name confusingly similar to any of them.

5.4. Institution may not take any action against a third party in relation to the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, without NI's prior written consent. NI undertakes no obligation to register or apply to register, or to maintain any registrations of, the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark in any jurisdiction. Institution will, immediately upon becoming aware, give full written particulars to NI of (a) any allegation that the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark infringes the rights of any third party, or (b) any unauthorized use of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or a Mark by a third party. Institution will not make any allegation, admission, settlement, or comment in respect of any such matter without the prior written consent of NI. Unless specifically and expressly waived in accordance with Section 15, NI will have sole right to control the prosecution, defense and any settlement of any claim, dispute or proceedings related to the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or a Mark, including but not limited to NI's sole discretion regarding whether to implement any action and whether or not to bring or defend, or settle or attempt to settle, any claim, dispute or proceeding.

6. No Other Licenses. Institution acknowledges that all intellectual and industrial property rights, including but not limited to any copyrights and trademarks, which relate to the Materials, belong to and are retained by NI or NI's subsidiaries, as applicable. No rights, licenses or permissions, express, implied or by estoppel, are granted by NI except for the limited licenses expressly set forth in this MoU. All rights not expressly permitted to Institution in this MoU are reserved to NI.

7. Warranty Disclaimer. **INSTITUTION ACKNOWLEDGES AND AGREES THAT THE LICENSES, MATERIALS AND INFORMATION PROVIDED BY NI ARE AND WILL BE PROVIDED ON AN "AS IS" BASIS AND WITHOUT WARRANTY OF ANY KIND, AND NO WARRANTIES, EXPRESS OR IMPLIED, ARE MADE WITH RESPECT TO SUCH LICENSES, MATERIALS OR INFORMATION, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, OR ANY OTHER WARRANTIES THAT MAY OTHERWISE ARISE FROM USAGE OF TRADE OR COURSE OF DEALING; ANY AND ALL OF WHICH IMPLIED AND STATUTORY WARRANTIES ARE HEREBY DISCLAIMED, TO THE FULL EXTENT PERMITTED BY LAW.**

8. Term and Termination.

8.1. Term. This MoU shall commence on the Effective Date and continue for twenty-four (24) months unless terminated earlier. Either party may notify the other party in writing of early termination of this MoU by a prior notice of not less than three months prior to the effect of such termination.

8.2 Termination. Notwithstanding Section 8.1, if, during this MoU, including renewal terms, either party breaches this MoU, the other party may terminate this MoU upon notice to such party if such breach has not been cured to the reasonable satisfaction of the other party within thirty (30) days following written notice of the breach. This MoU shall terminate immediately and automatically if the Institution suspends operations, is or becomes the subject any bankruptcy or similar proceeding, makes an assignment for the benefit of creditors, or is adjudicated bankrupt or insolvent.

8.3 Effect. The following sections and subsections shall survive any termination or expiration of this MoU: 2.2, 5.3, 5.4, 6, 7, 8.3, 9, 10, 11, 12, 13, 14 and 15.

## 9. INDEMNITY; LIMITED LIABILITY.

9.1 Indemnity By Institution. Institution shall indemnify, defend and hold NI harmless for (a) any damage, expense (including reasonable attorneys' fees), loss, or injury (collectively, "Losses") arising from or in connection with any failure to comply with any of the provisions of Section 5 or any of its subsections; and (b) Losses claimed or sustained by Institution, a Student or other third-party relating to or arising from any Courses or any activities related thereto; however the same may be caused, including without limitation wholly or partially by the fault, negligence or strict liability of NI or others; provided that NI promptly notifies Institution of such claim, and provides Institution with the authority, assistance, and information Institution needs to defend or settle such claim. Institution shall not be liable for a settlement made without its prior written consent.

9.2 Indemnity By NI. NI shall indemnify, defend and hold Institution harmless for any claim by a third party that the Materials, as provided by NI, infringe such third party's United States copyrights; provided that such claim does not arise from use of the Materials other than as expressly permitted in this MoU, from any use or combination of the Materials with other materials not provided by NI, or from modification of the Materials not made by NI; and provided that Institution promptly notifies NI of such claim, and provides NI with the authority, assistance, and information NI needs to defend or settle such claim. NI shall not be liable for a settlement made without its prior written consent. This Subsection 9.2 states Institution's sole remedy for, and NI's entire liability and responsibility for, infringement of any patent, trademark, copyright, or other intellectual or industrial property right relating to the Materials. **THIS LIMITED INDEMNITY IS IN LIEU OF ANY OTHER STATUTORY OR IMPLIED WARRANTY OR REMEDY AGAINST INFRINGEMENT.**

9.3 Liability. **EXCEPT AS PROVIDED IN SUBSECTION 9.2, IN NO EVENT SHALL NI BE LIABLE FOR ANY DIRECT, ACTUAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, DATA OR DATA USE, INCURRED BY INSTITUTION, OR ANY STUDENT OR OTHER THIRD PARTY, ARISING FROM THIS MOU, WHETHER IN AN ACTION IN CONTRACT OR TORT, EVEN IF NI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND EVEN IF CAUSED BY THE FAULT, NEGLIGENCE OR STRICT LIABILITY OF NI OR OTHERS. IN NO EVENT SHALL NI'S LIABILITY UNDER THIS MOU EXCEED, IN THE AGGREGATE, THE AMOUNT OF US\$1,000 (ONE THOUSAND U.S. DOLLARS).**

10. Independent Contractors; Freedom of Action. Institution and NI are independent contractors to one another and nothing herein shall be deemed to create an agency, partnership, joint venture, franchise or employment relationship between NI and Institution or its personnel, and neither party shall represent to the contrary, either expressly, implicitly, by appearance or otherwise. Institution acknowledges, represents, and agrees that it has not paid, and will not pay, any fee to enter into this MoU. The licenses, rights and permissions granted to Institution under this MoU are nonexclusive. NI may provide identical or similar licenses to others. Further, NI may itself, or with others, (including without limitation other educational institutions), provide, deliver and/or teach courses that are the same as, or similar to, the Courses, or engage in other activities described in this MoU.

11. Assignment. Each party understands and acknowledges that this MoU is personal to the parties and accordingly, except for NI's right to assign this MoU to a related entity, neither party may assign this MoU (in whole or part)

without the prior written consent of the other and any attempt to do so shall be void. Institution may not delegate or subcontract any of its obligations under this MoU without NI's prior written consent.

12. Dispute Resolution. This MoU shall be construed under the laws of India. Any dispute or claim arising out of or in connection herewith, or the breach, termination or invalidity thereof, shall be settled by a sole arbitrator, in accordance with the provisions of the Arbitration and Conciliation Act, 1996. The place of arbitration shall be Bangalore and the arbitration proceedings shall take place in the English language. The arbitration award is final and binding upon the parties and the parties undertake to carry out any arbitration award without delay and shall be deemed to have waived their right to any form of recourse insofar as such waiver can validly be made.

13. Notices. All notices which shall be given by either party under the terms of this MoU shall be in writing and be hand delivered, sent by facsimile transmission, overnight delivery, or sent by certified mail, return receipt requested, addressed to the receiving party at the address listed at the first page or to such other persons or addresses as may be designated by a party in writing. Notice shall be effective on the date it is received or receipt is confirmed or, if mailed as described above, no later than ten (10) days after the date of such mailing.

14. Compliance with Laws. Institution agrees to comply with all applicable laws, including without limitation United States export laws and regulations, in Institution's performance of, and exercise of rights under, this MoU.

15. Registration. If this MoU is required to be registered with authorities in India, Institution shall complete any such required procedures promptly.

16. Counterparts; Language; Amendment; Construction; Severability; Waiver. This MoU, together with the exhibits attached hereto and referred to herein, embodies the entire understanding between the parties regarding the subject matter hereof and supersedes all prior representations, discussions and communications, whether oral or written. This MoU may be executed in two counterparts, each of which taken together shall constitute one single MoU between the parties. This MoU is solely in the English language. Any translations into any other languages shall be of no effect in interpreting this MoU or otherwise. No amendment, change, alteration, or modification hereof may be made except in a writing signed by both parties. The headings used herein are for convenience only and shall not enter into the interpretation hereof. Each term and condition of this MoU will be construed in such manner to be valid, enforceable and in compliance with applicable law. If any provision of this MoU is deemed or held by a court of competent jurisdiction to be invalid or unenforceable in whole or in part, such construction will neither impair nor affect the validity or enforceability of any other provisions of this MoU. The failure to insist upon strict compliance with any of the provisions of this MoU shall not be deemed a waiver of any such provision, nor shall any waiver or relinquishment of any right or power hereunder, at any one or more times, be deemed a waiver or relinquishment of such right or power at any other time or times. No waiver of any right under this MoU is effective unless made in writing, signed by an authorized representative of the waiving party and dispatched to the benefiting party in accordance with Section 13.

EXECUTED as of the Effective Date set forth above.

NI Systems (India) Pvt. Ltd.

MVGR College of Engineering, Vizianagaram

Signature:

**Mr. Solaikutty Dhanabal**, Academic Manager

Name and Title:

Date: 14/06/13

Signature:

**Dr. K.V.L. Raju**, Principal

Name and Title:

Date: 14/06/13

## EXHIBIT A

### INSTRUCTIONAL MATERIALS:

As determined and provided by NI.

- supplemental LabVIEW questions—Copying Permitted for Course Use
- Instructor version of the Student Workbook (PDF)—Instructor Use Only
- Student workbook version (PDF)—Copying Permitted for Course Use]

### OBJECTIVES:

Institution agrees to set up the ACADEMY, which is expected to meet the following goals:

- 1) To pursue training activities related to user education and training in areas mutually agreed to by INSTITUTION and NI. Initially the ACADEMY will begin activities in the area of user training in LabVIEW.
- 2) To strengthen the collaboration between INSTITUTION and NI, which may encourage undertaking of teaching projects and INSTITUTION to pursue its objectives of advancement and creation of knowledge through use of the facilities developed under the ACADEMY.
- 3) To organize courses/workshops/seminars every year on various aspects of Algorithm Engineering and Graphical System Design.

### COMMITMENTS OF NI:

- 1) NI may provide free of cost technical consultancy (no more than a reasonable period of time solely determined by NI) for establishment of ACADEMY at INSTITUTION.
- 2) NI agrees to provide free training (no more than 5 days) to 5 faculty of the ACADEMY on LabVIEW Fundamentals and further to waive off the first CLAD exam attempt fees of such 5 faculty.
- 3) NI agrees to provide start-up assistance (no more than a reasonable period of time solely determined by NI) at INSTITUTION during installation of NI products at the ACADEMY either directly or through its channel partners.
- 4) Once the ACADEMY qualifies for the criteria required for a LabVIEW Academy, NI agrees to provide 50% discount in CLAD (Certified LabVIEW Associate Developer) exam fee for the students & faculties of ACADEMY who got trained under ACADEMY.
- 5) NI agrees to provide free technical support over phone and e-mail on NI products and their usage for various measurements and control.
- 6) NI may support INSTITUTION in conducting training programs for industry representatives approved by NI.

### COMMITMENTS OF INSTITUTION:

- 1) INSTITUTION agrees to use this ACADEMY as common facility for the entire campus and there will be Courses conducted for various engineering disciplines.
- 2) INSTITUTION agrees to appoint dedicated CLAD Certified instructor to conduct the Course in the ACADEMY
- 3) INSTITUTION agrees to provide computers and all other necessary infrastructure for the ACADEMY and all will be networked with structured cabling and Ethernet Switch.
- 4) INSTITUTION agrees to offer devoted human resources to impart compulsory or elective level through at least one 3-credit course on Virtual Instrumentation for all disciplines.
- 5) INSTITUTION also agrees to ensure the development of teaching demonstrations, application notes and project work through students and faculty of INSTITUTION using the facilities provided by ACADEMY.

### JOINT EFFORTS:

- 1) An official of INSTITUTION to be nominated and appointed by mutual consent of INSTITUTION and NI will coordinate the activities of the ACADEMY.
- 2) Both INSTITUTION and NI shall permit their respective experts to contribute in the teaching/training programs conducted by either organization through mutual consent.

## EXHIBIT B

1. LabVIEW Academy Logo:

The “LabVIEW Academy” logo is set out below for identification (the “SAMPLE” watermark is not part of the logo—the artwork for the logo will be made available after execution of this MoU by Institution and NI):



2. Requirements:

In addition to the other requirements of this MoU with respect to the use of the “LabVIEW Academy” Logo, the “LabVIEW Academy” name, and the Marks, Institution agrees to comply with the guidelines at <http://www.ni.com/legal/trademarks/> and any and all other guidelines that may be provided or made available by NI to Institution from time to time, and to include, in prominent type and font as specified by NI, the following legend in all materials on or in connection with which the “LabVIEW Academy” Logo or the “LabVIEW Academy” name are used:

“LabVIEW”, “National Instruments”, and the “LabVIEW” logo design are trademarks of National Instruments Corporation, and are used, as part of the “LabVIEW Academy” logo and the “LabVIEW Academy” name, with the permission of National Instruments Corporation. [name of Institution], not National Instruments Corporation, is solely responsible for the courses offered by [name of Institution], including without limitation those teaching the use of the LabVIEW™ software, and all materials, content, software, and code contained in or made available through this document or web site. Neither [name of Institution], nor any courses or other goods or services offered by [name of Institution], are affiliated with, endorsed by, or sponsored by National Instruments Corporation.

## Centre of Excellence - Embedded Systems

### The Service Provider

**ThinkLABS Technosolutions Pvt Ltd** (the "Service Provider"), a private limited company and existing under the Company Act of 1957, with its head office located at;

113/114 Phulora, Jain Mandir Marg,  
IIT Market, Powai,  
Mumbai 76, Maharashtra

### The Client

**Maharaj Vijayaram Gajapathi Raj College of Engineering** hereby referred to as MVGR (the "Client") was established in 1997;

The above mentioned parties mutually agree on the following

### Embedded Lab set-up

Under the guidelines of center of excellence, ThinkLABS will include the following indigenously designed hardware platforms for the laboratory:

S.No	Product	Quantity	Unit rate	Total
1	UniCon	13	7,084.00	<b>92,092.00</b>
2	UniBoard	13	6,808.00	<b>88,504.00</b>
3	Tuxedo	6	18,216.00	<b>1,09,296.00</b>
Total				<b>2,89,892.00</b>
Prices after Taxes (VAT @5%)				<b>3,04,386.60</b>

### Terms and Conditions

- **State government taxes:** as applicable at the time of delivery.
- **Warranty** : One year
- **AMC** : 10% of the cost of Purchase order per year.
- **During warranty and AMC periods the defective kit(s) should be replaced.**
- **Payment** : 100% advance for each consignment
- **Transport** : inclusive

- **Delivery** : within one month from the date of receipt of advance Payment
- **Training** : should be provided on all kits by your training partner

**ThinkLABS Technosolutions Pvt Ltd** at college premises

### Knowledge Sharing – Faculty Development Program

- ThinkLABS faculty would train the faculty of MVGR on the customized course, starting from the very basics to the advance level embedded systems.
- At the end of the program MVGR faculty in turn can transfer the knowledge to the students of MVGR
- The program would be restricted to training 8 faculty members from MVGR.
- The faculty from MVGR should be from E&TC background and should have a basic knowledge of embedded systems.
- ThinkLABS would run the faculty development program at the premises of the partner institute.
- The lodging of the faculty visiting MVGR for FDP (Faculty Development Program) is to be arranged by MVGR
- ThinkLABS would not be charging anything extra to MVGR for the course material to be distributed among the students, MVGR can distribute it to as many students as they want
- MVGR cannot distribute the course content or structure to any other educational institutions, training centers or to students belonging to other institutions.
- The FDP would be a total training of 130 contact hrs to the faculty, the detail of the portion to be covered is mentioned above.
- The program as discussed can be split into two parts. The first part of the program will be covered in the winter break in November(2010), the remaining part in April / May 2011, exact dates and timings can be mutually decided

### Detailed Program Content:

#### **Course details for the 8051 basic level program- 20 hr**

- C Programming – 12 hr
- Features of  $\mu$ C &  $\mu$ P, 8051 architecture, ports , LCD – 8 hr
- UART Programming – 6 hr
- Timer/counter – 4 hr
- External Interrupts – 4 hr
- Activity:
  - Digital clock – 6 hr

### Course details for the for the flagship Imperium Program – 90 hr

Embedded Systems programming 1	Embedded systems programming 2	RTOS programming 1	RTOS programming 2
<ul style="list-style-type: none"> <li>• C Programming</li> <li>• Introduction to embedded C</li> <li>• Embedded C programming</li> <li>• Introduction to AVR microcontroller</li> <li>• Basic microcontroller programming</li> <li>• Port programming</li> <li>• UART</li> <li>• LCD interfacing</li> <li>• Timer</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced AVR programming</li> <li>• Interrupt programming</li> <li>• Joystick interfacing using ADC</li> <li>• EEPROM programming</li> <li>• Communication protocols</li> <li>• UART</li> <li>• IIC and RTC programming</li> <li>• SPI programming</li> </ul>	<ul style="list-style-type: none"> <li>• Data structures</li> <li>• Linked list implementation</li> <li>• Stack implementation</li> <li>• Queue implementation</li> <li>• RTOS</li> <li>• Introduction to <math>\mu</math>C/OS</li> <li>• Task management concepts</li> <li>• Scheduler</li> <li>• RTOS programming</li> </ul>	<ul style="list-style-type: none"> <li>• Using semaphores - mutex</li> <li>• Priority inversion avoidance with mutex</li> <li>• Inter-task communication</li> <li>• Mailbox</li> <li>• Message queue</li> <li>• Case Study</li> <li>• Snake using RTOS</li> <li>• Snake game implementation</li> </ul>

### Course details of Linux system programming course – 20 hr

- Overview of Linux, general commands, shell scripting
- Processes in Linux, Signals
- Inter-process communications, Pipes and FIFO's in Linux
- System V IPC's (semaphores, shared memory and message queues)
- Threads in Linux, POSIX Semaphores and Mutexes
- Sockets, client-server architecture
- Compilation of sources to generate binaries, Booting Linux on Target board
- Overview of Device drivers

ThinkLABS should conduct a total course training of 130 hrs for the faculty of MVGR College of Engineering.

### Certification and Evaluation Process

- The students performance would be evaluated by MVGR (as per the guidelines provided by ThinkLABS) and certified by ThinkLABS and Indian Innovators Association ( The details of the same are with MVGR) after the completion
- ThinkLABS would be charging Rs. 300 per student for the certification exam
- Every student must attend 75% of the contact hours to be eligible for appearing for the exam

## Review of course material and perpetuating knowledge

- After each batch gets certified ThinkLABS would review the course content in close coordination with MVGR and the changes (if required) would be incorporated in the next batch's curriculum. The charges would depend on the number of hours the faculty would have to be trained on the revised content
- In case any of the faculty members leave MVGR, the remaining faculties can train new members on the program. ThinkLABS would help MVGR with the process

## Financials of the proposal

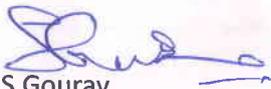
### Faculty development program

Total cost for delivery to 8 faculty members (inclusive of government taxes): **INR 2, 14,500**

Certification charge for students – INR 300 per student.

### Payment terms

- Faculty Development Program:
  - I. 50% of the total amount is to be paid 1 week before the commencement of the first session.
  - II. Remaining 50% is to be paid 1 week before the commencement of the second session.
- Certification payment:
  - I. The total amount be collected by the program coordinator (from MVGR) from students and be given to ThinkLABS one week before the exam date.



S.Gourav

Director, ThinkLabs

IIT Mumbai

05-09-11



PRINCIPAL

MVGR College of Engineering

05-09-11

# 2015-16

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**MAHARAJ VIJAYARAM GAPATHI RAJ COLLEGE OF ENGINEERING(AUTONOMOUS)**

Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram-535005, Andhra Pradesh

**Accredited by NAAC with 'A' Grade & Listed u/s 2(f) & 12(B) of UGC**

**(Approved by AICTE, New Delhi and Permanently Affiliated by JNTUK-Kakinada)**

NBA Accredited UG Courses: B.Tech(MEC), B.Tech(CIV), B.Tech(EEE), B.Tech(ECE), B.Tech(CSE), B.Tech(IT),  
B.Tech(MEC) & B.Tech(CHE) and PG Course: MBA

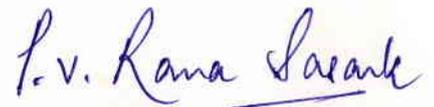
## Memorandum of Understanding (MVGR)

This MoU is between Maharaj Vijayaram Gajapathi Raj College of Engineering (hereinafter referred as MVGR) and Conduira Education & Training Services Pvt. Ltd (hereinafter referred as Conduira) for the purpose of giving training to final year students of final B. Tech, MBA and MCA in the field of CRT (Campus Recruitment Training), so as to prepare them for the forthcoming campus recruitments by various companies.

MVGR is an engineering college established in the year 1997 with its campus at Vijayaram Nagar, Chintalavalasa, Vizianagaram-535 005, and Conduira is an institution registered with its office at CONDUIRA HOUSE, 48-3-26, Srinagar, Rama Talkies, Visakhapatnam-530 016.

### Terms and Conditions:

- a. This MoU is for collaboration between both parties for mutual benefit, to enhance skills and prepare students of MVGR to face the forthcoming placement season on campus.
- b. This MoU shall be valid for one year from the date or till the completion of syllabus for the above said students whichever occurs earlier and each party shall be at liberty to terminate the collaboration with a notice period of one month.
- c. Both parties shall take all reasonable steps to ensure the successful completion of the collaboration, and cooperate with each other in duly carrying out the obligations agreed upon.
- d. MVGR shall provide infrastructure like class rooms, white boards, PA system and LCD Projector etc. for the smooth functioning of the class. The program will be conducted in the Premises of MVGR.
- e. CONDUIRA will support through Conduira AIM software by providing password to each students and also provide the learning material like handouts on the campus recruitment training.
- f. The module of the training programme is as enclosed in Annexure 'A'.
- g. The Training class will be taken by the resource persons whose bio-data's are enclosed as in the Annexure 'B'.
- h. The program duration is approximately 60 hours per batch, with a maximum batch size of approximately 100.
- i. MVGR has assured to Conduira a minimum of 246 students for training.
- j. MVGR agreed to pay Rs. 2500/- (TDS will be deducted as per the standing regulation) per student registered for training and for not less than 246 students. The fee is inclusive of all taxes.
- k. Conduira agreed to consider the feedback of the placement committee regarding the above said training program and shall do changes wherever necessary.
- l. That MVGR has agreed to pay the amount as per the following terms and conditions



- 50% of the amount will be paid as an advance at the time of the commencement of the training programme through a demand draft or cheque in favour of Conduira Education and Training Service Pvt. Ltd., payable at Visakhapatnam
  - The balance will be paid within 7 days of successful completion of the training programme subject to submission of satisfactory report by Training and Placement committee
  - All statutory taxes shall be borne by Conduira
- m. Both the parties shall maintain confidentiality about any information, course material, plans, discussions, strategies or a liability for any act of the respective parties.
  - n. Each party shall ensure that the other is not put to any liability for any act of the respective parties.
  - o. Both the parties shall not use the name of the other in any advertisement or make public announcement without prior written approval of the other.
  - p. This MoU is prepared on the mutual agreed terms during course of talks in the placement Committee meetings and quotation submitted by Conduira dated 17<sup>th</sup> Jan 2015.
  - q. That Conduira shall attend, represented by its Co-ordinator, all such meetings convened to discuss matters related to the proposed Training programme.
  - r. The commitment shall be for the duration of present academic year.
  - s. Conduira shall attend to all such training needs on the proposed programme, if necessary for retraining the weak students during the period of agreement.
  - t. Conduira shall continue to offer online training support (AIM) to the students for a period of 6 months after the completion of the training program.
  - u. Conduira shall provide training on a mutually agreed time table without affecting the college academic schedule.
  - v. Conduira shall provide the college (T & P Cell) with periodic assessment reports on students and fine tune their training meeting the requirements adequately.
  - w. The Training & Placement Officer shall represent the institute, where as Conduira shall nominate one programme coordinator for all future correspondence.

In written whereof both parties put their hard seal on the day, month and year herein mentioned.

Date: 20-06-2015

*Bhan*

Place: Vizianagaram

Name: Dr. M. Sunil Prakash

Designation: Dean - Training & placements

Institute: MVGR College of Engineering

Sign: *[Signature]*

Date: 20-06-2015

*Bhan*

Place: Visakhapatnam

Name: Mr. P. V. Rama Sasank

Designation: Director

Institute: Conduira Education & Training Services Pvt. Ltd.

Sign: *P. V. Rama Sasank*

### Annexure A

The program includes 32 sessions on Aptitude (each session for 90 minutes) and 8 sessions on Soft Skill Training – the duration of the entire program coming to approximately 60 hours.

Assuming 3 sessions every day (of 90 minutes each) – the program would require TWO weeks for completion.

From among the 40 sessions, the split among the various topics is as follows,

Topic	Number of Sessions
Verbal Aptitude – Grammar, Vocabulary & Reading Comprehension	9 Sessions
Analytical & Verbal Reasoning	13 Sessions
Quantitative Aptitude	13 Sessions
Soft Skill Training – Group Discussions & Interview Skills	6 Sessions
Full Length Practice Tests	5 Sessions (Afternoon Sessions)

However, this schedule might undergo a change. The final program schedule would depend upon the perceived levels of the student. In case of multiple batches, the batches might be brought together for a few of these classes on the discretion of the Program Coordinator.

The program schedule is attached below identifying the topics to be covered.

Verbal Ability	
Vocabulary Workshop 1	P08 CH VC 01
Vocabulary Workshop 2	P08 CH VC 02
Nouns & Pronouns	P08 CH GR 01
Tenses & Conditionals	P08 CH GR 02
Subject Verb Agreement	P08 CH GR 03
Articles & Determiners	P08 CH GR 04
Prepositions, Idioms & Phrases	P08 CH GR 05
Reading Comprehension & Cloze Passages 1	P08 CH RC 01
Reading Comprehension & Cloze Passages 2	P08 CH RC 02
Quantitative Ability & Logical Reasoning	
Number Systems	P08 CH QA 01
Percentages, Profit & Loss	P08 CH QA 02
SI, CI & Averages	P08 CH QA 03
Ratio, Proportions & Mixtures	P08 CH QA 04
Time, Speed and Distance	P08 CH QA 05
Time and Work	P08 CH QA 06
Algebra & Coordinate Geometry	P08 CH QA 07
Logarithms & Progressions	P08 CH QA 08
Geometry	P08 CH QA 09
Mensuration	P08 CH QA 10
Permutations & Combinations	P08 CH QA 11
Probability & Set Theory	P08 CH QA 12
Data Sufficiency & Data Interpretation	P08 CH QA 13



P.v. Ramesh Sankar Page 143

Data Interpretation	P08 CH QA 14
<b>Analytical &amp; Verbal Reasoning</b>	
Series, Sequences, Coding and Decoding	P08 CH LR 01
Directions, Blood Relations	P08 CH LR 02
Analytical Reasoning – Puzzles	P08 CH LR 07
Clocks and Calendars	P08 CH LR 05
Non Verbal Reasoning, Truth & Lie based puzzles	P08 CH LR 04
Cubes & Dice	P08 CH LR 06
Syllogisms & Logical Consistency	P08 CH VL 01, 02
Logical Consistency	P08 CH VL 03
Para Jumbles and Para Completions	P08 CH VL 05
Critical Reasoning, Theme & Summary Detections	P08 CH VL 04
Statement – Conclusions, Assumptions & Courses of Action	P08 CH VL 06
<b>Soft Skills (Group Discussion &amp; Personal Interview Skills)</b>	
Profile Sheets	P08 CH PI 01
Introducing ourselves (TMSY)	P08 CH PI 02
Resume Design & Resume based questions	P08 CH PI 03
HR Questions and Situations & Management Round and Situations	P08 CH PI 04
Essay Writing	P08 CH PI 05
Group Task / Discussion practice	P08 CH PI 08

*[Handwritten signature]*

*P. v. Rama Lakshmi*

### Annexure B

Bio-data of the faculty members handling CRT sessions scheduled at MVGR College

Mohamed Abdullah	<ul style="list-style-type: none"><li>• University 3<sup>rd</sup> in Engineering</li><li>• GATE All India Rank 17</li><li>• Admitted to Indian Institute of Science, Bangalore for M.Tech</li><li>• MBA from MDI Gurgaon (Ranked 6<sup>th</sup> in India)</li><li>• Worked with CRISIL – India's No: 1 Financial rating and consultancy firm</li><li>• GRE – 1520/1600; GMAT – 740/800</li></ul>
Deepti Abdullah	<ul style="list-style-type: none"><li>• University 6<sup>th</sup> in Engineering</li><li>• GRE – 1510/1600</li><li>• Admitted to graduate programs of Harvard and Columbia Universities, U.S.</li><li>• Worked with the RPG Group, Mumbai</li></ul>
Rama Sasank	<ul style="list-style-type: none"><li>• B.Tech. (Computer Science &amp; Engg) from IIT Hyderabad</li><li>• MBA from IIM Calcutta</li><li>• Worked with ITC</li><li>• CAT – 99.5%ile, MAT – 800/800</li></ul>
Aditya Lanka	<ul style="list-style-type: none"><li>• MBA from IIM Calcutta,</li><li>• CAT – 99.6%ile</li><li>• Worked with Bloomberg, U.S.A.</li></ul>
Sumanth Palepu	<ul style="list-style-type: none"><li>• MBA from IIM Kozhikode; 99.4%ile in CAT</li><li>• Worked with Sony Entertainment &amp; Mahindra Satyam</li></ul>
Varma Rajasagi	<ul style="list-style-type: none"><li>• MBA from SP JAIN</li><li>• Worked with ISRO and Hindustan Aeronautics Ltd.</li></ul>
Rajesh Dhanana	<ul style="list-style-type: none"><li>• Expert in Quantitative Aptitude</li><li>• Gold Medalist, MCA</li></ul>
Suraj Chawla	<ul style="list-style-type: none"><li>• MBA from XIM Bhubaneshwar</li><li>• Worked with ICICI Bank</li></ul>
Vyjayanthi P	<ul style="list-style-type: none"><li>• Worked with CMC Limited</li><li>• Consultant in HR to many leading companies, like Airtel, HSBC &amp; Bharati</li></ul>
Ranga Mani Inumala	<ul style="list-style-type: none"><li>• Expert in Verbal Aptitude – Vocabulary, Grammar and Verbal Reasoning</li></ul>



P.V. Rama Sasank

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (“MOU”) is made on Twenty Fifth day of June Two Thousand Fifteen (25. 06. 2015) at Bangalore

BY AND BETWEEN

**M/S Formac Software Service Private Limited**, a company incorporated under the provisions of the Companies Act, 1956 and having its registered office at Ground floor, Agni Block, Salarpuria G.R Tech Park, ITPL Main Road, Whitefield, Bangalore - 560066 (hereinafter referred to as “**Formac**” which expression shall, unless repugnant to the subject or context thereof, be deemed to include and mean its nominees, successors and substitutes or assigns);

AND

**Maharaj Vijayaram Gajapathi Raj (MVGR) College of Engineering** having its office at Vijayaram nagar campus, Chintalavalasa, Vizianagaram, Andhra Pradesh- 535005 India (hereinafter referred to as “**Receiving Party**” which expression shall unless repugnant to the subject or context thereof, be deemed to include and mean its nominees, successors and substitutes or assigns);

The parties to this MOU are individually referred to as the “party” and collectively referred to as “parties”

### WHEREAS

**Formac** is an IT consulting and software development company who have recently forayed into Indian industry. Formac empowers the educational institutions to produce high quality professionals and enables the industry to identify and recruit the right talent by developing and offering innovative solutions and software. Formac Software Services is a subsidiary of Formac Inc. (USA) which was founded in February 2008 with an aim to transform the user experience – from finding the right education to building a prosperous career with our suite of products and services.

Formac offers services in Formac’s Industry Readiness Program (FIRP), EPRACTO (Students assessment product), EYARDSTICK, (up-coming online assessment portal) and CAMPUSINTEL (up-coming college search website) and many more.

Receiving Party is a well-known Engineering college situated at Vijayaram Nagar campus, Chintalavalasa, Andhra Pradesh- 535005 , India.

Receiving party wishes to collaborate with Formac for Training, Augmentation and Placement Assistance (FIRP), Real time, Practice Assessment Product (EPRACTO) cell on the terms and conditions set forth in this MOU.

**NOW THEREFORE, THE PARTIES HERETO DO MUTUALLY COVENANT AND AGREE AS FOLLOWS:**

#### **1. DEFINITIONS**

“MOU” means this MOU including all the Schedules attached hereto

“Effective Date” means the date upon which this MOU is executed by the last party to sign.

#### **2. OBJECTIVES AND SERVICES**

Formac had presented the proposal for the Formac Industry Readiness Program (FIRP) project, Student Assessment Product (EPRACTO) which is accepted by the receiving party. The agreed services are set out in schedule 1 to this MOU.

#### **3. RATES AND PAYMENT**

The Receiving Party agrees to pay the Formac as per the agreed rates detailed below as per schedule 2. Formac will submit the invoices to the Receiving Party; the Receiving Party shall pay Formac within seven (7) days of the date of submission of the Invoice to Receiving Party. The invoices shall be raised on completion of the stages as provided in the schedule 2.

#### **4. WORKING ARRANGEMENTS**

The Formac will conduct the services at the Receiving Party's premises; the Receiving Party agrees to provide working space, computer labs, Network administration (FIRP and EPRACTO), placement cell for interviews, auditorium for seminars (FIRP), computer machine time and any other services and materials, which may be necessary.

#### **5. CONFIDENTIAL INFORMATION**

Both parties hereby agree to hold secret and confidential any material provided to him from the other party. Neither party will at any time whether during or after termination of this MOU (unless expressly authorized by the other party as part of the performance of its duties) disclose to any person or make use of any confidential information or trade secrets known to them as a direct result of this relationship.

## **6. INTELLECTUAL PROPERTY**

The Receiving Party agrees that all ideas, concepts, and other intellectual property rights related in any way to the techniques, knowledge or processes of the Formac's services or products, whether or not developed or implemented for the Receiving Party, shall be the sole and exclusive property of the Formac. The Formac shall have the sole and exclusive right, title and ownership to the said technology. This clause shall survive expiration or termination of this MOU.

## **7. PERFORMANCE OF CONTRACT**

Formac's obligation to provide the services shall be performed by such member or members of the Formac's employees, officers or representatives as the Formac may consider appropriate. Formac shall be entitled to assign or sub-contract the performance of the services. However, Formac must provide the services in a manner consistent with this MOU.

## **8. DURATION & TERMINATION**

This MOU is valid till the completion of the services as provided in the schedule 1 below and after receiving party clears all the open invoices.

The Receiving Party can terminate this MOU at any stage by paying the entire fee (100% payment not partial) agreed in the schedule 2 below.

OR

The MOU can be terminated by mutual understanding made between the parties in writing.

## **9. LIMITATION OF LIABILITY**

Formac shall not be liable to the Receiving Party, its customers, students and/or its partners, for any direct, indirect, incidental, special, consequential or exemplary losses or damages including but not limited to, loss of profits, goodwill, data or other intangible losses suffered by them or either of them, and/or for expenses or costs incurred by them or either of them and arising out of the performance by the Formac of its obligations under this MOU and/or in connection with the developed solution. Except as expressly provided hereunder, Formac's maximum liability shall not exceed the total sums paid by Receiving Party to Formac in accordance with this MOU.

### **10. RIGHT TO EMPLOY**

The Receiving Party shall not at any time during the validity of this MOU or within twelve (12) months from the termination of this MOU, directly or indirectly engage, employ, or utilize the services of any employee/consultant supplied by Formac under this MOU.

### **11. INTEGRATION**

This MOU constitutes the complete understanding and agreement of the parties with respect to the subject matter hereof and supersedes and merges any prior understandings, statements, negotiations between the parties, whether oral or otherwise. This MOU may not be modified except by a writing subscribed to by both parties.

### **12. NUMBER OF STUDENTS**

The number of students participating in this program will be decided based on assessment/cut off / or any other criteria accepted by both parties. The placement assurance number will be applicable only for those students who are selected decided based on assessment/ cut off / or any other criteria accepted by both parties.

### **13. FORCE MAJEURE**

If and to the extent that a party's performance of any of its obligations pursuant to this MOU is prevented, hindered or delayed by fire, flood, earthquake, elements of nature or acts of God, acts of war, terrorism, riots, civil disorders, rebellions or revolutions, or any other similar cause beyond the reasonable control of such party (but specifically excluding labor, students and union-related activities and transportation) (each, a "Force Majeure Event"), then the non-performing, hindered or delayed party shall be excused for such non-performance, hindrance or delay, as applicable, of those obligations affected by the Force Majeure Event for as long as such Force Majeure Event continues and such party continues to use its best efforts to recommence performance whenever and to whatever extent possible without delay, including through the use of alternate sources or other means. The party whose performance is prevented, hindered or delayed by a Force Majeure Event shall immediately notify the other party of the occurrence of the Force Majeure Event and describe in reasonable detail the nature of the Force Majeure Event. Nothing in this Section shall limit the Receiving Party from paying any fees for Services rendered prior to the Force Majeure Event.

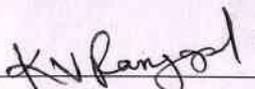
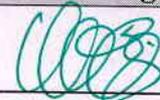
**14. CARTE BLANCHE**

This agreement stands as a formal approval from the receiving party, for Formac. That Formac shall contact companies on behalf of the institute for placements of their students under Industry Readiness Program. Formac shall act as facilitator for the Receiving Party in Coordinating with companies.

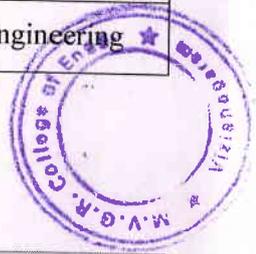
**15. LEGAL JURISDICTION**

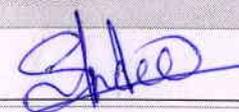
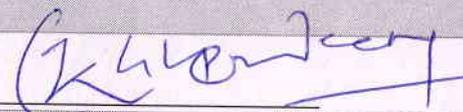
If any provision of this MOU is unenforceable, it shall have the maximum effect permitted by law and the enforceability of other provisions shall be unaffected.

This MOU is interpreted and governed in accordance to the laws of Karnataka, India. In relation to disputes arising from or connected with this MOU, the parties submit to the exclusive jurisdiction of the Bangalore Courts. This MOU may be waived or modified only in writing, signed by both parties.

<i>For</i> <b>M/S Formac Software Services Private Limited</b>	<i>For</i> <b>MVGR College of Engineering</b>
	
Name: Sri. K. V. Ram Gopal	Name: Dr. K. V. L. Raju
Designation: Client Relations Manager	Designation: Principal, MVGR College of Engineering

PRINCIPAL  
MVGR. College of Engineering  
Vijayaram Nagar  
Chinthalavai (PO)  
MYSURU



<b>WITNESSES</b>	
1. 	2. 
Name: Dr. M. Sunil Prakash	Name: PRAVEEN KALLA
Address: Dean (TSP and PG Courses) MVGR College of Engineering	Address: TPO, MVGRCE.



# Maharaj Vijayaram Gajapathi Raj College of Engineering

Accredited by NBA of AICTE, NAAC with 'A' Grade of UGC,  
Approved by AICTE, New Delhi, and Permanently Affiliated to JNTU, Kakinada  
Listed U/S 2(f) & 12 (B) of the UGC Act 1956

## Service Level Agreement

The Service Level Agreement (SLA) is entered into on 6<sup>th</sup> August, 2015 between **Maharaj Vijayaram Gajapathi Raj College of Engineering (MVGR)**, Vizianagaram, AP. 535005 and **Focus Academy for Career Enhancement (FACE)**, No.12, Lakshmi Nagar, Thottipalayam Pirivu, Avinashi Road, Coimbatore - 641014.

**Maharaj Vijayaram Gajapathi Raj College of Engineering (MVGR)** is represented by **Prof. M Sunil Prakash, Dean & Head-Training & Placements, MVGR** and **FACE** is represented by **Mr. Venkat Sai, Manager –Business Development.**

**MVGR** and **FACE** decided to lay down the terms and conditions of the SLA with the following clauses. The terms and conditions are not limited to the following but new terms shall only be added with mutual consent of both the parties.

  
**Prof. M Sunil Prakash**  
**(Dean - T&P-MVGR)**  
Dr. M. Sunil Prakash, *ME, PhD*  
Professor of ECE  
Dean T & P and PG Courses  
MVGR College of Engineering  
Vizianagaram-535 005

  
**Mr. Venkat Sai**  
**(Manager – Business Development- FACE)**

**Section 1 – Program and batch details (common for all phases)**

<b>Full Name of College</b>	MaharajVijayaramGajapathi Raj College of Engineering(MVGR)
<b>Program Name</b>	FIP
<b>Total Program Duration (in Days)</b>	3
<b>Total Program Duration (in Hours)</b>	18 hours
<b>No of Phases</b>	1
<b>Degree and Passing out year of students to be trained</b>	B.E/ B.Tech, 2019 Pass-out students
<b>Training Dates</b>	12,13,14 <sup>th</sup> August 2015
<b>Semester of Study of students to be trained</b>	1st Semester
<b>Total No of students attending the training (as per attached Batch-List)</b>	900
<b>No of batches</b>	15
<b>Session Timings</b>	9:00-11:00, 11:15-1:15, 2:00-4:00

**IMPORTANT:**

- Last minute changes in training dates will not be accommodated. Hence FACE recommends that the college should double-check and ensure that none of these fall during the training dates: 1. No Local / State / National holidays. 2. No Internal tests / examinations. 3. No college functions. (Ex: Sports day, Annual day) 4. No guest lecturers / special programs. 5. No placement / recruitment process
- Any request for change in training dates needs to be communicated to FACE at-least 7 working days in advance
- Even if communicated 7 working days in advance, FACE is not automatically liable to deliver the service on the revised dates. FACE will re-confirm the possibility of service delivery based on availability of trainers, ease of trainer travel and accommodation and other constraints
- Once the SLA is signed, our Service Relationship Manager (SRM) from our head-office will be in touch with you to plan finer details of logistics. Details of the Service Relationship Manager (SRM) are:
  - **Name:** MsAshwini
  - **Mobile Number:** 99439 52979/ 97860 49555
  - **Email ID:**srm@focusacademy.in
- Batch List of students to be trained needs to be attached to this SLA. This is a mandatory requirement from FACE.

  
**Prof. M. Sunil Prakash**  
(Dean - T&P-MVGR)  
Dr. M. Sunil Prakash, ME, PhD  
Professor of ECE  
Dean T & P and PG Courses  
MVGR College of Engineering  
Vizianagaram-535 005

  
**Mr. Venkat Sai**  
(Manager – Business Development- FACE)

## **Section 2 – Billing Terms and Conditions**

<b>Duration of Training Program (in Days)</b>	3 Days
<b>Duration of Training Program (in Hours)</b>	18 Hours
<b>Training Dates</b>	12,13,14 <sup>th</sup> August 2015
<b>Price per Student exclusive of Service Tax</b>	Rs. 700 per student
<b>Price per Student Inclusive of Service Tax</b>	=Rs. 700 * 1.14 = Rs 800 per student <b>(Inclusive of all taxes)</b>
<b>Minimum no of students to be billed</b>	850
<b>Minimum Invoice Amount</b>	=850 * Rs.800 = Rs.6,80,000/-
<b>Actual Invoice Amount Calculation Methodology</b>	All students who attend at-least one session will be considered as "Attended". Billing will be for minimum of 850 students or "Attended" no of students, whichever is higher

**NOTE:** After completion of program, our Accounts Manager, Mr.UdayKiran will be in touch with the college SPOC for invoicing and payments. Details of our Accounts Manager are:

- Name – Mr.UdayKiran
- Mobile No – 88615 67567
- Email – accountsmanager@focusacademy.in

  
**Prof. M Sunil Prakash**  
**(Dean - T&P-MVGR)**  
Dr. M. Sunil Prakash, ME, PhD  
Professor of ECE  
Dean T & P and PG Courses  
MVGR College of Engineering  
Vizianagaram-535 005

  
**Mr. Venkat Sai**  
**(Manager – Business Development- FACE)**

**Section 3 – Payment Schedule – Terms & Conditions**

<b>Advance Amount Payable</b>	NA
<b>Last date for payment of advance amount (failing which the service will not be delivered)</b>	NA
<b>Maximum Credit Period for Balance Payment</b>	Payment to be made within 30 days from the date of execution of the Training Program



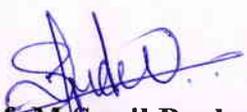
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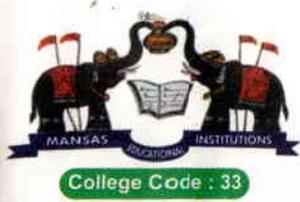
**Section 4 – Travel and Logistics – Terms & Conditions**

<b>Trainer Travel to Vizag</b>	<b>FACE will take care</b>
<b>Local conveyance from port of entry in Vijayanagaram to place of stay</b>	<b>FACE Will take care</b>
<b>Trainer Accommodation</b>	<b>FACE will take care</b>
<b>Local Conveyance from place of stay to College and back</b>	<b>College will take care</b>
<b>Food Arrangements (Breakfast, Lunch, Dinner)</b>	<b>College will provide only lunch.</b>
	<b>Rest Face will take care</b>
<b>Materials Printing</b>	<b>FACE will take care</b>
<b>Materials Dispatch</b>	<b>FACE will take care</b>

  
**Prof. M Sunil Prakash**  
**(Dean - T&P-MVGR)**

*Dr. M. Sunil Prakash, ME, PhD*  
Professor of ECE  
Dean T & P and PG Courses  
MVGR College of Engineering  
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**Mr. Venkat Sai**  
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# Maharaj Vijayaram Gajapathi Raj College of Engineering

Accredited by NBA of AICTE, NAAC with 'A' Grade of UGC,  
Approved by AICTE, New Delhi, and Permanently Affiliated to JNTU, Kakinada  
Listed U/S 2(f) & 12 (B) of the UGC Act 1956

## Service Level Agreement

The Service Level Agreement (SLA) is entered into on 25<sup>th</sup> August, 2015 between **Maharaj Vijayaram Gajapathi Raj College of Engineering (MVGR)**, Vijayanagaram, AP. 535005 and **Focus Academy for Career Enhancement (FACE)**, No.12, Lakshmi Nagar, Thottipalayam Pirivu, Avinashi Road, Coimbatore - 641014.

**Maharaj Vijayaram Gajapathi Raj College of Engineering (MVGR)** is represented by **Prof. M Sunil Prakash, Dean -Training & Placements, MVGR** and **FACE** is represented by **Mr. Venkat Sai, Manager –Business Development.**

**MVGR** and **FACE** decided to lay down the terms and conditions of the SLA with the following clauses. The terms and conditions are not limited to the following but new terms shall only be added with mutual consent of both the parties.

  
**Prof. M Sunil Prakash**  
(Dean -T&P- MVGR)

  
**Mr. Venkat Sai**  
(Manager – Business Development - FACE)

**Section 1 – Program and batch details (common for all phases)**

<b>Full Name of College</b>	Maharaj Vijayaram Gajapathi Raj College of Engineering (MVGR)
<b>Program Name</b>	CSAC(TCS)
<b>Total Program Duration (in Days)</b>	4
<b>Total Program Duration (in Hours)</b>	24 hours
<b>No of Phases</b>	1
<b>Degree and Passing out year of students to be trained</b>	B.E/ B.Tech/MCA 2016 Pass-out students
<b>Training Dates</b>	1,2,3,4 <sup>th</sup> September 2015
<b>Semester of Study of students to be trained</b>	7th Semester
<b>Total No of students attending the training (as per attached Batch-List)</b>	600
<b>No of batches</b>	6
<b>Session Timings</b>	9:00-11:00, 11:15-1:15, 2:00-4:00

**IMPORTANT:**

- Last minute changes in training dates will not be accommodated. Hence FACE recommends that the college should double-check and ensure that none of these fall during the training dates: 1. No Local / State / National holidays. 2. No Internal tests / examinations. 3. No college functions. (Ex: Sports day, Annual day) 4. No guest lecturers / special programs. 5. No placement / recruitment process
- Any request for change in training dates needs to be communicated to FACE at-least 7 working days in advance
- Even if communicated 7 working days in advance, FACE is not automatically liable to deliver the service on the revised dates. FACE will re-confirm the possibility of service delivery based on availability of trainers, ease of trainer travel and accommodation and other constraints
- Once the SLA is signed, our Service Relationship Manager (SRM) from our head-office will be in touch with you to plan finer details of logistics. Details of the Service Relationship Manager (SRM) are:
  - **Name:** Ms Ashwini
  - **Mobile Number:** 99439 52979/ 97860 49555
  - **Email ID:** srm@focusacademy.in
- Batch List of students to be trained needs to be attached to this SLA. This is a mandatory requirement from FACE.

  
**Prof. M. Sunil Prakash**  
(Dean -T&P- MVGR)

  
**Mr. Venkat Sai**  
(Manager – Business Development - FACE)

## **Section 2 – Billing Terms and Conditions**

<b>Duration of Training Program (in Days)</b>	4 Days
<b>Duration of Training Program (in Hours)</b>	24 Hours
<b>Training Dates</b>	1,2,3,4 <sup>th</sup> September 2015
<b>Price per Student exclusive of Service Tax</b>	Rs. 877.19 per student
<b>Price per Student Inclusive of Service Tax</b>	=Rs. 877.19 * 1.14 = Rs 1000 per student <b>(14% Taxes as applicable)</b>
<b>Minimum no of students to be billed</b>	600
<b>Minimum Invoice Amount</b>	=600 * Rs.1000 = Rs. 6,00,000/-
<b>Actual Invoice Amount Calculation Methodology</b>	All students who attend at-least one session will be considered as "Attended". Billing will be for minimum of 600 students or "Attended" no of students, whichever is higher

**NOTE:** After completion of program, our Accounts Manager, Mr. Uday Kiran will be in touch with the college SPOC for invoicing and payments. Details of our Accounts Manager are:

- Name – Mr. Uday Kiran
- Mobile No – 88615 67567
- Email – accountsmanager@focusacademy.in

  
**Prof. M Sunil Prakash**  
(Dean -T&P- MVGR)

  
**Mr. Venkat Sai**  
(Manager – Business Development - FACE)

**Section 3 – Payment Schedule – Terms & Conditions**

<b>Advance Amount Payable</b>	NA
<b>Last date for payment of advance amount (failing which the service will not be delivered)</b>	NA
<b>Maximum Credit Period for Balance Payment</b>	Payment to be made within 30 days from the date of execution of the Training Program

  
**Prof. M Sunil Prakash**  
**(Dean -T&P- MVGR)**

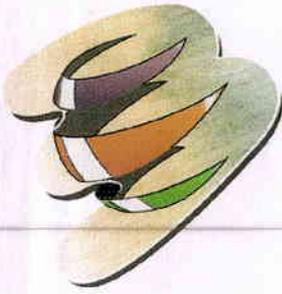
  
**Mr. Venkat Sai**  
**(Manager – Business Development - FACE)**

**Section 4 – Travel and Logistics – Terms & Conditions**

<b>Trainer Travel to Vizag</b>	<b>FACE will take care</b>
<b>Local conveyance from port of entry in Vijayanagaram to place of stay</b>	<b>FACE Will take care</b>
<b>Trainer Accommodation</b>	<b>FACE will take care</b>
<b>Local Conveyance from place of stay to College and back</b>	<b>College will take care</b>
<b>Food Arrangements (Breakfast, Lunch, Dinner)</b>	<b>College will provide only lunch.</b>
	<b>Rest Face will take care</b>
<b>Materials Printing</b>	<b>FACE will take care</b>
<b>Materials Dispatch</b>	<b>FACE will take care</b>

  
**Prof. M Sunil Prakash**  
**(Dean -T&P- MVGR)**

  
**Mr. Venkat Sai**  
**(Manager – Business Development - FACE)**



# 3 orbs solutions

## MEMORANDUM OF UNDERSTANDING FOR LIFE SKILLS TRAINING

THIS MEMORANDUM OF UNDERSTANDING is made as on this 13<sup>th</sup> day of August, 2015, by and between

- 1) M/s 3 Orbs Solutions, Visakhapatnam, with its principal place of business at Visakhapatnam, MVP Colony, Vizag – 530017, herein called the “Vendor” in the MoU.

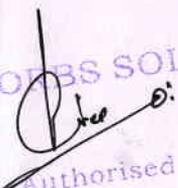
AND

- 2) Maharaj Vijayaram Gajapathi Raj College of Engineering (A), Vizianagaram, an academic institute having a place of business at Chintalavalasa, Vizianagaram – 535005, herein called the “Client” in the MoU.

Nature of business is training and all reference to Training herein after is referred to as "Program."

### Background

The Vendor is a training firm engaged in Life Skills Training. The Vendor has expertise and experience in areas of training which would be beneficial to the passing out students from the colleges for seeking jobs, entrepreneurship and at various other personal and professional situations. The Vendor will carry out training at the college and employ their staff with relevant expertise and training material wherever applicable.

FOR 3 ORBS SOLUTIONS  
  
Authorized Signatory

  
PRINCIPAL  
MVR. College of Engineering  
Vijayaram Nagar  
Chintalavalasa (Dist)

Contact #s : +91 90521 97789, +91 9949898497, +91 74166 86789

 support@3orbs.in  www.3orbs.in



# 3 orbs solutions

## Responsibilities of the Vendor:

Vendor shall render services as a Training Consultant and conduct programs on life skills for Student Development for the academic year 2015-2016 until the contract holds valid. Functions and instructions in connection with said services include the following:

- a) Delivering training sessions to students for the entire Program duration.
- b) Consulting with and advising the Students/Staff/Program Coordinator with regard to the progress and observation during the program, student developmental needs, and any and all other aspects pertaining to the Program.
- c) Engaging the participants and program coordinator allotted by the college.

## Responsibilities of the Client:

The Client shall facilitate the presence of students attending the program for the entire duration as agreed and the functions in connection with this program include the following.

- a) Coordinating and discussing with the relevant stake holders, staff or HODs for setting time table and agenda for the program before the Vendor starts rendering the services.
- b) Ensuring presence of students for the program at the scheduled date and time.
- c) Allotting a single point of contact for the entire program who can be the coordinator in facilitating all aspects related to this program.

## Other mutual agreements:

### **Training Topics:**

Training topics rendered by the Vendor are shared with the Client (please refer Annexure 1) and the specific topics for each session will be decided based on thorough discussion and analysis which are mutually agreed by both parties.

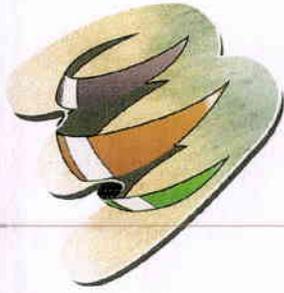
FOR 3 ORBS SOLUTIONS

  
Authorised Signatory

  
SVGR. College of Engineering  
Vijayaram Nagar  
Chinthalevaran  
MADANAGARAM, 508 007

Contact #s : +91 90521 97789, +91 9949898497, +91 74166 86789

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## **Training frequency:**

Training frequency/number of sessions for each financial year will be finalized based on the number of the days allotted for training by the Client, and will be mutually discussed and agreed before it is implemented (please refer Annexure 2).

## **Session duration:**

Each session will be for three hours maximum on a given day and might change based on request from the Client and after mutual consensus.

## **Training Equipment:**

The Vendor shall carry a laptop and necessary software and material for the training. Handouts wherever necessary will also be given by the vendor.

The client shall supply the facility including the conference room, A/V aids and necessary stationary which include white boards, flip chart boards, markers, charts and any other need based requirements.

## **Trainees:**

The 2<sup>nd</sup> year engineering students of all the branches in MVGR college as of academic year 2015-16 (an Annexure 3 with the list of students is attached to this MOU), shall be trained in the mutually agreed topics.

## **Professional Fees:**

For the contractually agreed trainees, a fee of 1350 INR + 14% tax will be charged per student for this program and has to be paid in three parts, the dates of which are mutually decided and agreed by both parties before the start of the program (for the total contract value, the payment terms, dates and intervals please refer to annexure 4).

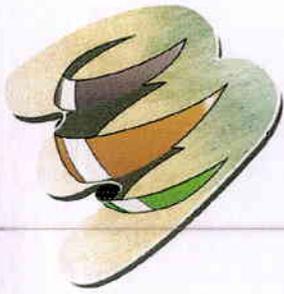
All costs for the program shall be paid by Client directly to the vendor via cheque/Fund transfer to 3 Orbs Solutions/Kiran Babu P.

For 3 ORBS SOLUTIONS  
  
Authorized Signatory

  
PRINCIPAL  
SVGR. College of Engineering  
Vijayaram Nagar  
Chinthelavai (PO)  
TIANAGARAM - 535 007

Contact #s : +91 90521 97789, +91 9949898497, +91 74166 86789

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## Changes:

Any changes in training schedule related to attendance of participants, change in topics or anything in particular that may affect or disrupt the training schedule need to be addressed mutually in advance before the training session commences.

## Clause of Confidentiality:

3 Orbs Solutions maintains high levels of confidentiality and pledges not to disclose any client specific data, company information or any sensitive information that may otherwise prove detrimental to the client brand, client profile and client market stand.

3 Orbs Solutions also urges the client not to disclose any service provider data, the professional charges, training materials, handouts, presentations, training tools or any other specific material that may otherwise prove detrimental to the service provider.

The foregoing correctly reflects the mutual understanding between the parties hereto, on this 13<sup>th</sup> day of August in the year 2015.

For 3 ORBS SOLUTIONS

  
Authorized Signatory

Vendor



Client

PRIYANKA  
EVER. College of Engineering  
Vijayalakshmi Nagar  
Chintholevada (PO)  
MIDNAGARAM-535 005

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# 3 orbs solutions

## Annexure – 1. Course Split

### Modules & Break up of curriculum (3hr / 6 hr Sessions)

S No	Topic
1	Interviews / GD / Resumes
2	Career / Future Planning
3	Corporate Life

4	Communication
5	Problem Solving / Decision Making
6	Innovation
7	Leadership
8	Planning
9	Strategic /Analytical ability

10	Thought Process
11	Time Management
12	Stress / Emotion Management
13	Values and Ethics
14	Social Service
15	Environmental Responsibility

Total Training Hours – 66 to 72

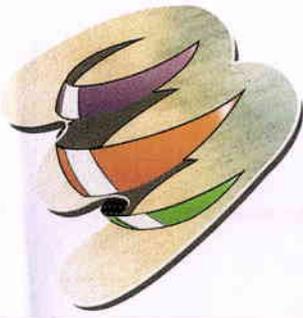
For 3 ORBS SOLUTIONS

Authorised Signatory

Principal

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# 3 orbs solutions

## Annexure - 2. Schedule

### Weekly allotment of sections for training

Day / Time	9.00- 9.50	9.50- 10.40	10.40- 11.30	11.30- 12.20	12.20- 1.10	1.10- 2.00	2.00- 2.50	2.50- 3.40
Mon							<---- Mech - A & B ---->	
Tue	<---- Mech - C ---->						<-- ECE - C, ECE- A --->	
Wed							<---- Chem, ECE -B ---->	
Thu							<--- Mech - C, Chem ---->	
Fri	<---- ECE - B ---->						<---- Mech - A & B ---->	
Sat	<---- CSE - A ---->							
	<---- ECE - C ---->						<---- ECE - A ---->	

The schedules mentioned above are weekly slots for each section. 66 hours of training for each section is expected to be completed within 18 weeks of semester 1.

Training sessions are scheduled based on mutual consensus. This annexure will change for the next batch of 7 sections.

For 3 ORBS SOLUTIONS  
  
 Authorised Signatory

  
 PRINCIPAL  
 Govt. College of Engineering  
 Vijayanagar, Mysore

Contact #s : +91 90521 97789, +91 9949898497, +91 74166 86789

 support@3orbs.in  www.3orbs.in



भारत सरकार  
अंतरिक्ष विभाग  
**भारतीय सुदूर संवेदन संस्थान**  
4, कालीदास मार्ग, पो. बाक्स सं. 135  
देहरादून- 248 001, भारत  
दूरभाष : +91-135-2524399  
फैक्स : +91-135-2741987, 2748041



Government of India  
Department of Space

**Indian Institute of Remote Sensing**  
4, Kalidas Road, P.B. No. 135,  
Dehradun - 248 001, India  
Telephone : +91-135-2524399  
Fax : +91-135-2741987, 2748041

Dr. Prakash Chauhan  
Director

No.: IIRS/GIT&DL/EDUSAT/2018/36  
Date: July 18, 2018

**विषय:** "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" पर 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम की घोषणा"

**Sub:** Announcement of 36th IIRS Outreach Program on "Basics of Remote Sensing and Digital Image Analysis" commencing from August 20, 2018.

Dear Sir/ Madam,

पृथ्वी अवलोकन (ई.ओ.) भारतीय अन्तरिक्ष अनुसंधान संस्थान का एक महत्वपूर्ण कार्यक्रम है जिसके अंतर्गत पिछले पचास वर्षों में कई उपग्रहों को अन्तरिक्ष में प्रक्षेपण किया गया है। इन उपग्रहों से प्राप्त आकड़ों का उपयोग प्राकृतिक संसाधन व आपदा प्रबंधन में किया जाता है। भारतीय सुदूर संवेदन संस्थान (भा.सु.सं.सं.) भूस्थानिक प्रौद्योगिकी के अंतर्गत शिक्षण, प्रशिक्षण तथा क्षमता संवर्धन को समर्पित एक महत्वपूर्ण संस्थान है। इस संस्थान द्वारा अब तक 35 उपग्रह एवं इंटरनेट आधारित आउटरीच पाठ्यक्रम संचालित किए जा चुके हैं। इन पाठ्यक्रमों से अबतक 806 भारतीय विश्वविद्यालयों/ संस्थानों के करीब 72000 से अधिक प्रतिभागी लाभान्वित हुए हैं। इस कार्यक्रम को आगे बढ़ाते हुए हम सहर्ष 36<sup>वें</sup> आई<sup>०</sup>आई<sup>०</sup>आर<sup>०</sup>एस<sup>०</sup> आउटरीच कार्यक्रम को प्रारंभ करने की घोषणा करते हैं। 20 अगस्त, 2018 से प्रारम्भ होने वाला यह कार्यक्रम "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" है। यह कार्यक्रम कार्यरत पेशेवरों तथा छात्रों हेतु लक्षित है। यह कार्यक्रम प्रतिभागियों को अपने कार्यस्थल पर रहते हुये ज्ञान को समृद्ध करने का एक अनूठा अवसर प्रदान करेगा।

The Indian Space Research Organisation (ISRO) has a vibrant Earth Observation (EO) programme since last 50 years with the launch of several satellite missions. The Indian Remote Sensing Satellite (IRS) series of satellites provide space based information for monitoring and management of natural resources and Disaster Management Support. The Indian Institute of Remote Sensing (IIRS) is a premier Institute under ISRO engaged in training, education and capacity building on use of geospatial technology for natural resources monitoring and disaster management since last five decades. The institute has so far conducted 35 Satellite and Internet based Outreach Programmes, benefitting more than 72,000 participants from 806 Indian Universities/ Institutions/User Departments/User Ministries in India. To promote the use of geospatial technology, IIRS announces the 36<sup>th</sup> IIRS Outreach programme on "Basics of Remote Sensing and Digital Image Analysis" commencing on August 20, 2018. The course is targeted to working professionals and students and will provide a unique opportunity to the learners to enhance their knowledge by attending the course at their respective working places.

यह कोर्स तीन मॉड्यूलों में बंटा है रिमोट सेंसिंग और डिजिटल इमेज एनालिसिस, वैश्विक नेविगेशन सैटेलाइट सिस्टम और भौगोलिक सूचना प्रणाली और आरएस और जीआईएस एप्लीकेशन। कोर्स के दौरान पढ़ाये जाने वाले प्रमुख विषयों में रिमोट सेंसिंग, अर्थ अवलोकन सेंसर और प्लेटफॉर्म के बुनियादी सिद्धांत, विभिन्न भूमि कवर सुविधाओं के स्पेक्ट्रल हस्ताक्षर, छवि व्याख्या, थर्मल और माइक्रोवेव रिमोट सेंसिंग, डिजिटल इमेज प्रोसेसिंग, जीपीएस और जीएनएसएस का परिचय, रिसेीवर, प्रसंस्करण विधियों, भौगोलिक सूचना प्रणाली, डाटा बेस, टोपोलॉजी, स्थानिक विश्लेषण और ओपन सोर्स सॉफ्टवेयर और कृषि और मृदा, वानिकी और पारिस्थितिकी, जियोसाइंस और जिओहाजर्ड्स, समुद्री और वायुमंडलीय विज्ञान, शहरी और क्षेत्रीय अध्ययन और जल संसाधन में आरआईएस और जीआईएस एप्लीकेशन आदि सम्मिलित हैं। प्रतिभागी अपनी पसंद के मॉड्यूल या पूरे प्रमाणपत्र पाठ्यक्रम के लिए पंजीकरण कर सकते हैं।

The course consists of three modules namely Remote Sensing and Digital Image Analysis, Global Navigation Satellite System and Geographical Information System and RS and GIS Applications. The major topics covered will include Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Spectral Signature of different land cover features, Image interpretation, Thermal & Microwave Remote Sensing, Digital Image Processing, Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy, Geographic Information System, data bases,

topology, spatial analysis and open source software's and RS and GIS Applications in Agriculture and Soil, Forestry and Ecology, Geoscience and Geohazards, Marine and Atmospheric Sciences, Urban and Regional Studies and Water Resources. **The participants can register for individual module of their choice or the entire certificate course.**

अपने कार्यस्थल से प्रतिदिन डेढ़ घंटा समर्पित करके भूस्तरीय प्रौद्योगिक सीखने का यह एक अनोखा अवसर है। इस पाठ्यक्रम में **निशुल्क** भाग लिया जा सकता है। ए-व्यू सॉफ्टवेयर ([www.aview.in](http://www.aview.in)) का प्रयोग कर इंटरनेट के जरिए कार्यक्रम स्वतंत्र रूप से उपलब्ध हो सकता है। यह कार्यक्रम एनएनआरएमएस, अंतरिक्ष विभाग, और क्षमता निर्माण के लिए भारत सरकार द्वारा प्रायोजित है। पाठ्यक्रम पूर्ण करने पर प्रतिभागियों को आईआईआरएस. इसरो से प्रमाण पत्र के साथ सम्मानित किया जाएगा। यह कार्यक्रम 16:00-17:30 बजे के दौरान प्रतिदिन प्रसारित किया जाएगा। इस कोर्स की घोषणा, विवरणिका की एक प्रति आपके सहयोगियों और आपके विश्वविद्यालय/ संस्थान/ संगठन में परिसंचरण के लिए इसके साथ भेजी जा रही है। यह पाठ्यक्रम यूजी और पीजी छात्रों/ शोधकर्ताओं/ वैज्ञानिक/ तकनीकी कर्मचारियों और इच्छुक व्यक्तियों के लिए उपलब्ध है। इसके व्यापक प्रचार और आपके विश्वविद्यालय/ संस्थान/ संगठन से अधिकतम भागीदारी के लिए आपके समर्थन की आवश्यकता है।

It is a unique opportunity for participants to learn directly from their place of working by devoting an hour and a half each day. The course can be attended with **no cost** to the participants. Programme can be received live through internet by utilizing A-VIEW software ([www.aview.in](http://www.aview.in)) available freely or using live streaming from YouTube. This Programme is sponsored by NNRMS, Department of space, and Government of India for capacity building. The participants who successfully complete the course will be awarded a certificate from IIRS, ISRO. The programme is scheduled during 1600 Hrs.-1730 Hrs. A copy of the announcement brochure of this course is forwarded herewith for your kind perusal and for circulation in your university/institute/organisation. The course is open to UG & PG students/researchers/scientific/technical staff and interested individuals. We need your support for wide publicity and maximum participation from your university/ institute/Organisation.

यदि आपको कार्यक्रम के बारे में और जानकारी की आवश्यकता है, तो कृपया संपर्क करने में संकोच न करें

डॉ. हरीश कर्नाटक, प्रमुख, भू-वेब सेवाएँ, सूचना प्रौद्योगिकी तथा दूरस्थ अधिगम विभाग

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

डॉ. पूनम एस तिवारी, कार्यक्रम समन्वयक, आईआईआरएस आउटरीच प्रोग्राम

Ph. 0135-2524115 (Office), M: +91 9410924417 or email- [poonam@iirs.gov.in](mailto:poonam@iirs.gov.in)

एडीयूसैट स्टूडियो / कंट्रोल रूम [श्री जनार्दन विश्वकर्मा और श्री अशोक घिल्लियाल]

Ph.: 0135-2524130, email: [dlp@iirs.gov.in](mailto:dlp@iirs.gov.in)

In case you need any further information about the programme, please feel free to contact:

**Dr. Harish Karnatak**, Head, Geoweb Services, IT & Distance Learning Department

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: [harish@iirs.gov.in](mailto:harish@iirs.gov.in)

**Dr. Poonam S. Tiwari**, Programme Coordinator, IIRS Outreach Programme

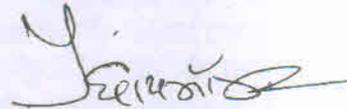
Ph. 0135-2524334 (Office), M: +91 9410924417 or email- [poonam@iirs.gov.in](mailto:poonam@iirs.gov.in)

**EDUSAT Studio/Control Room** [Shri Janardan Vishwakarma & Shri Ashok Ghildiyal]

Ph.: 0135-2524130, email: [dlp@iirs.gov.in](mailto:dlp@iirs.gov.in)

You may also visit IIRS website [http //www.iirs.gov in/Edusat-News](http://www.iirs.gov.in/Edusat-News) for further details.

With regards and best wishes,



(Prakash Chauhan)  
Director

संलग्नक/Encl.: कार्यक्रम विवरणिका तथा अनुसूची/ Course Brochure and Schedule



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

Sl. No. 2472 Date 12/4/2014  
 Sold to Pradap Singh s/o Amar Nath Singh  
 For Whom Company - Siemens Ltd. vsp

P. Altha Kanne  
 BP 645907  
 P. LALITHA KUMAR  
 LICENCED STAMP VENDOR  
 Original L.No 03/14/0027  
 RL.No 03/14/005/20  
 # 37-3-9, OLD ITI J  
 VISAKHAPATNAM-530  
 CELL : 949133239

Momerandum of Understanding  
between.

SIEMENS LTD (SITRAIN -INDIA) & MVGR COLLEGE OF ENGINEERING,CHINTALAVALSA,  
VIZIANAGARAM for "AUTOMATION & ELECTRICAL TRAININGS INTEGRATED WITH KITS"

Siemens Limited, SITRAIN department (hereinafter referred to as "Siemens", which expression shall Unless repugnant to the context or meaning thereof will mean and include its successors and assigns) agrees that they will give training kits based student training support on Automation & Drive modules to MVGR College of Engineering, Chintalavalsa, Vizianagaram.  
 (Siemens' Training Kits of Automation & Drive modules as per offer)

MVGR College of Engineering, Chintalavalsa, Vizianagaram confirms that training kits has been received by them from Siemens as per Annexure 2 of our offer I-CS-VS-TRG/4132.201415\_R1 dtd. 25.02.2014.

- 1) MVGR College of Engineering, Chintalavalsa, Vizianagaram agrees that training-kits used for SIEMENS training are strictly in line with Siemens - SITRAIN standards, designs and specifications.
- 2) Train The Trainer program for MVGR staff/trainers has been completed.



*(Handwritten signature)*

*(Handwritten signatures)*

- 3) Students in the college shall be trained by the fleet of Staff/Trainers trained by SIEMENS. Siemens could help once in a while (hand-holding) during this process.
- 4) Doubt-solving, examination & evaluation shall be done by Siemens once in 6-Months for all the batches trained on SITRAIN courses, so that they get the "Siemens-Sitrain Certificate.
- 5) Examination will be conducted at end of the course/evaluation. Students who pass with 50% marks will receive the participation certificate from SIEMENS India on chargeable basis.
- 6) Attendance clause for student certification is mentioned in Annexure.1 of MoU.
- 7) Charge or Price for each Siemens-Sitrain Certificate i.e. Certificate per course per student would be **Rs.1750/-**.
- 8) MVGR College of Engineering, Chintalavalsa, Vizianagaram will raise the PO for student certification on SIEMENS SITRAIN, along with 100% advance payment.
- 9) During every Siemens Trainer's visit to College for training service support, Travel/stay of him/her shall be in College's Scope. The request for such training/support should be sent approximately 30 days prior to the scheduled date.
- 10) Training kit (software Hardware) up-gradation at actual (depending on the model & related Software.
- 11) Trainer up-gradation @ Rs. 22,500/- per day (If Training at MVGR College of Engineering).
- 12) The commercial Terms and Conditions will be in line with Annexure-5 of the I-CS-VS-TRG/4132.201415\_R1 dtd. 25.02.2014.
- 13) This MoU is also subject to acceptance/agreement on all the annexure in Siemens Offer.
- 14) This contract is valid only for the kits listed in our offer I-CS-VS-TRG/4132.201415\_R1 dtd. 25.02.2014.
- 15) This MoU is valid for the period 2 years.
- 16) The MoU can be renewed with mutual consent **MVGR College of Engineering, Chintalavalsa, Vizianagaram & Siemens -SITRAIN.**
- 17) This MOU forms an integral part of our offer and subject to acceptance of the offer and all annexure of the same.

*Pradeep*

*Juis*



*(Signature)*

# SIEMENS

## General Conditions for Service Business of Siemens Ltd. India

01.12.2014

### 1. GENERAL

1.1 The terms and conditions ("Terms"), contained herein together with any additional or different terms contained in Siemens' proposal, submitted to customer/purchaser ("Purchaser") constitute the entire agreement between the parties with respect to this order/contract for provision of services, including any other services in accordance with clause 8 (Changes), the "Services") and supersede all prior communications and agreements. Acceptance by Siemens of Purchaser's order, or Purchaser's acceptance of Siemens' proposal is expressly limited to and conditioned upon Purchaser's acceptance of these Terms, which may not be changed or waived except in writing signed by the parties. Any additional, inconsistent, or different terms and conditions contained in Purchaser's purchase order or other documents supplied by Purchaser shall not form a part of the contract (as defined below).

1.2 "Contract" constitutes Purchaser's clear unconditional and unqualified acceptance of Siemens' proposal as accepted by Siemens in writing together with these Terms and any other agreement jointly agreed in writing by Purchaser and Siemens (hereinafter referred as "Contract").

### 2. SIEMENS' RIGHTS AND OBLIGATIONS

2.1 Siemens shall perform the Services in accordance with good engineering service practice and generally accepted industry service standards within the technical field as generally accepted in the relevant industry. Siemens shall not have any service obligations other than those described in the Contract and its annexes.

2.2 Siemens shall not be liable for failure of Purchaser or any other contractor of Purchaser or their personnel to achieve the contemplated results regarding the Services. No review, initials or signature of any documents by Siemens shall imply any responsibility for the proper completion of the services. Unless otherwise expressly stated in this Contract, Siemens shall not have any responsibility for Purchaser's scheduling, planning, project-management, quality programs, health, safety, security or environmental management and for any resulting time extension or cost-overrun with the works.

2.3 Siemens shall comply with the safety and work regulations as applicable on site on the date of signing the contract. However, any change to these regulations after the date of signing shall be regarded as change of the Contract for which Siemens shall be entitled to additional time and cost.

2.4 Siemens shall only use suitably qualified and experienced personnel in the respective technical field. Siemens shall be responsible for necessary work permits of its personnel. Any other permits/approvals Siemens will be required to obtain only if they fall within Siemens' scope of the Services and need to be obtained in Siemens' name and Siemens is able to fulfill all the pre-conditions for a permit on its own. Siemens shall have the right to replace any of its personnel with equally qualified personnel.

2.5 Siemens may subcontract the Services or parts thereof to its affiliate companies and sub-contractors.

### 3. PURCHASER'S RIGHTS AND OBLIGATIONS

The Purchaser shall do all that is required of it in order to ensure that Siemens' personnel are able to commence work in time and to carry out the work in an uninterrupted manner. In particular, the Purchaser shall at its cost:

3.1 Provide other personnel, who are not a part of the Siemens scope, as is necessary for the performance of the services by Siemens, together with the equipment they require. The selection of the personnel shall be made with the consent of Siemens or its representative. This personnel, together with their foremen will receive their instructions from Siemens' authorized personnel but will remain in the employment and under the responsibility, including the insurance responsibility, of the Purchaser. Unqualified personnel may be rejected by Siemens and shall be replaced at the Purchaser's cost.

3.2 Be responsible for the timely performance of all preparatory work and supplies required as well as all other related works together with the procurement of all necessary equipment and material.

3.3 Supply all commodities and material, not covered under the scope of Siemens, as are necessary for the performance of the services. All equipment, objects and material supplied shall be in perfect condition.

3.4 Provide power and water supplies together with the necessary connections up to the required location on site as well as heating and general lighting and, if necessary, air-conditioning and ventilation.

3.5 Be responsible for adequate safety precautions on site against theft, damage, destruction and other adverse factors. Material lost or damaged shall be replaced or repaired at the Purchaser's cost.

3.6 Provide in time any protective clothes and devices demanded by the special circumstances on site and shall be responsible for the continuous inspection and replenishment thereof.

3.7 Make available sufficient and suitable transport for personnel, tools, equipment and material.

3.8 Provide unrestricted and unimpeded access to the site and the services for Siemens.

3.9 Assist Siemens in obtaining any necessary work and residence permits.

3.10 Procure permits and licenses required for authorizing the Services including the importation or exportation of tools, equipment, vehicles and material by Siemens, as well as provide, import and arrange customs clearance of material, books, publications, software and hardware, providing of which are not in Siemens' scope, but necessary for completion of Services by Siemens.

3.11 Before commencement of the works and without specific request by the Siemens, supply all necessary information and drawings with regard to the location of underground power cables, gas and water pipes or similar installations together with static data for structures.

### 4. HEALTH, SAFETY AND ENVIRONMENTAL PROTECTION PROCEDURES (HSE)

4.1 Health, safety and environmental protection procedures (HSE) are to be in place and implemented by the Purchaser at his cost, at locations where Siemens employees are fulfilling their contractual duties.

4.2 In cases where Purchaser's HSE procedures are not fully in place, not implemented or observed, Siemens employees have the right to follow the Siemens HSE procedures. Upon request, Siemens HSE management has the right to visit and examine the site prior to commencement of the services.

4.3 If placed in situations that are in conflict with basic HSE regulations mentioned in Siemens employees have the right to suspend work and report these to Purchaser's management and Siemens office.

4.4 Siemens is not liable for performance under the contract or towards any costs incurred due to the suspension of Siemens' contractual obligations arising from a HSE infringement. The Purchaser shall rectify this infringement without undue delay, at no cost to Siemens and shall also reimburse such costs so incurred by Siemens.

4.5 All local transportation, provided or arranged by the Purchaser shall be booked with companies, which comply with all the requisite rules and regulations and are certified in terms of quality and safety. Local cars used for crew transportation shall be safe, in a good state of maintenance, equipped with safety belts, headrests, airbags, and where required, 4-wheel drive. The drivers shall possess a valid clean driving license, be experienced and have good company records. When required by the country specific requirements, special guidance, protection, Purchaser shall arrange special or spare tyres and safety measures.

4.6 Basic Purchaser HSE work location requirements are: 4.6.1 Fenced-in work area; 4.6.2 Controlled entrance; 4.6.3 First-aid staff and equipment; 4.6.4 Plant gas and fire alarm system; 4.6.5 Site emergency plan; 4.6.6 Full time Purchaser HSE coordinator.

4.7 Sanitary provisions and canteen facilities; 4.6.8 Good housekeeping and waste control; 4.6.9 Permit-to-work system and regular site inspections; 4.6.10 Personal protection equipment 4.6.11 Hoisting, fire fighting, electrical and hydraulic equipment to be yearly inspected and in good working order.

### 4.7 Asbestos

4.7.1 The Purchaser warrants that the components to be serviced are free of asbestos.

4.7.2 Should the components not be free of asbestos, Siemens will inform the Purchaser, that the components must be de-polluted and in an asbestos-free condition, before starting the services.

4.7.3 In this case, the Purchaser will arrange at its costs, together with a specialized disposal company, the asbestos disposal.

4.7.4 The time period for the asbestos disposal shall be added to the agreed delivery-time, commencing with the date of the information advising the asbestos contamination of the components, given by Siemens to the Purchaser.

### 5. ACCEPTANCE

5.1 Where the parties have agreed on a formal acceptance, Siemens shall notify the Purchaser in writing when the services are ready for acceptance and acceptance shall take place within seven days of issuing of such notice. Acceptance may not be withheld for deficiencies that do not impair the proper functioning of the machines.

5.2 Should acceptance not have taken place within seven days from the date of notification that the works are ready for acceptance, due to reasons beyond Siemens' control, acceptance shall be deemed to have taken place upon expiry of said period of time.

5.3 In any event acceptance shall be deemed to have taken place upon the Purchaser taking into operation of the item in relation to which the services have been provided.

### 6. KEY PERFORMANCE INDICATORS

It is understood by the parties Key Performance Indicators ("KPIs") will be finalized after the plant has been in full operation for some time if not already agreed before the commencement of Services. These KPIs, if mutually agreed by the parties, shall be appended to this Contract as an Annex by a supplemental agreement. It is expressly agreed by the parties that liquidated damages shall be prescribed if the KPIs are not achieved by Siemens. These liquidated damages shall be set out in detail by the supplemental agreement. It is agreed by the Purchaser that in no event, shall the liquidated damages exceed five (5) % of the monthly invoice value. Liquidated damages/penalty shall be the sole and exclusive remedy payable to the Purchaser and the Purchaser expressly waives its other rights.

### 7. PAYMENT

7.1 The Services will be paid for either on the basis of a lump sum price, if quoted, or on the basis of time and materials. The rates for Siemens' personnel shall be as set forth in Siemens' standard daily rates for technical personnel as specifically quoted or informed in writing. Prices for Services are based upon time for eight hours weekday shift. If performance of Services is delayed, interrupted, extended or accelerated by Purchaser or for any cause of the Purchaser or due to other causes beyond the reasonable control of Siemens, Purchaser shall pay Siemens additional compensation therefore in accordance with Siemens' standard daily rates for technical personnel in effect at the time the Services are performed, including overtime.

7.2 Siemens shall have the right to part debit costs at suspension of Siemens service work by the Purchaser.

7.3 If payments are not made when due, Purchaser shall pay, in addition to the overdue payment, a late charge equal to (1.5)% per month on all such overdue amounts.

### B. REPRESENTATIVE

The Purchaser shall, prior to the commencement of the Services nominate a representative ("Representative") who shall be Purchaser's agent and the single point of reference for Siemens. Any acts and omissions of the Purchaser's Representative shall be considered as acts or omissions of Purchaser.

*Pradeep Jindal*



*[Signature]*

## Annexure-1

- 1) Actual training programs are of 5 days full time (40 hrs), however MVGR college of Engineering shall spread this 40 hrs. over the Semester & conduct the 3 to 4 hrs. sessions in every week.
  - 2) Considering as a special case, SITRAIN shall help the MVGR college of Engineering by giving relaxation on participant attendance.
  - 3) 90% attendance would be mandatory instead of 100% for MVGR college of Engineering student certification, provided he/she shall recover the missed out portion and generate proof of the same.
  - 4) If participant miss-out two training days (i. e 6 to 8 hrs.) due to some emergency, then he/she will have to take special permission from the College Principle as well as SITRAIN with genuine justification. He /she will have to necessarily recover the missed out portion and generate the proof of the same.
  - 5) If participant miss out more than 8 hrs., he/she will not be eligible for Siemens Certificate.
- 

*Praveen* *Jain*



*(Signature)*

**17. ASSIGNMENT**

Neither any assignment of this contract or any of the rights and obligations hereunder shall be made without the prior written consent of the other party, however, notwithstanding the aforesaid, Siemens shall be entitled to transfer and/or assign the contract including all rights and obligations there under to any of its associate or group company or direct or indirect affiliates and that the Purchaser hereby consents to any such transfer and/or assignment.

**18. SUSPENSION**

Siemens reserves the right to suspend the Contract arising out of this offer in the event:  
i) Purchaser does not make the payments as per the Contract. ii) The "Force Majeure" conditions extends beyond 90 days and the parties cannot come to a mutual agreement for fulfilling their respective obligations under this contract.  
iii) Purchaser neglects or refuses to carry out his obligations under this Contract arising out of the Offer or commits any other material breach of the terms of the Contract.  
In case of prolonged suspension, Siemens may decide to terminate the contract at the cost and risk of the Purchaser if such termination is as result of breach by the Purchaser.

**19. TERMINATION**

19.1 Any party proposing to terminate this contract shall first give the other party written details of any alleged breach and a reasonable time to cure such breach, by payment of liquidated damages or otherwise.

19.2 Within 30 days of the issue by either party of a notice of termination of the Contract under these Terms, the Purchaser shall pay to Siemens:  
The outstanding balance of the contract value of the services which have been performed and of those services which are then capable of being performed, the costs incurred by Siemens up to the date of notice of termination in performing services on goods which are not then in a deliverable state plus a reasonable margin which shall not be less than (15) %.

19.3 This obligation shall not however apply in respect of deficient or delayed services which have not been performed and in respect of which the Purchaser has terminated the contract by reason of the Siemens's continued failure to remedy the deficiency or delay.

19.4 Termination of the Contract in whole or in part however occasioned shall not affect or prejudice the provisions of this Clause, Clause 13 or Clause 14 or Clause 24.

19.5 The Purchaser's rights to terminate this Contract are exclusively set forth in the contract.

**20. PARTIAL INVALIDITY**

If any provision herein or portion thereof shall for any reason be held invalid or unenforceable, such invalidity or unenforceability shall not affect any other provision or portion thereof, but these Conditions shall be construed as if such invalid or unenforceable provision or portion thereof had never been contained herein.

**21. INSURANCE**

Purchaser shall take out an Erection and Commissioning All Risk Insurance for the works under which Siemens and all of its affiliated companies involved in the Services shall be named "Insured Parties". All sub-contractors shall be "Additional Insured Parties". Insurers shall waive their right of subrogation against Insured or Additional Insured Parties. The liability of insurers shall not expire before completion of the Services.

**22. LAW AND DISPUTE RESOLUTION**

22.1 This contract shall be governed by and construed in accordance with the laws of India.

22.2 All disputes arising out of or in connection with this Contract, including any question regarding its existence, validity or termination, shall, unless amicably settled between the Parties, be finally settled by arbitration in accordance with the Arbitration and Conciliation Act 1996, and any modifications thereto and amendments thereof from time to time, by sole arbitrator, or by three arbitrators in case parties could not mutually agree on the sole arbitrator wherein each Party shall appoint one arbitrator and the presiding arbitrator shall be appointed by the selected two Arbitrators. The seat of arbitration shall be Mumbai, India, the language of the arbitration proceedings shall be English.

22.3 Each party submits to the jurisdiction of courts of Bombay / Mumbai for the purposes only of compelling compliance with the above arbitration provisions and for enforcement of any arbitration award made in accordance with the above provisions.

**23. EFFECTIVE DATE / COMMENCEMENT**

Unless otherwise stated, this Agreement shall become effective upon signature of both Parties. If commencement is delayed until after the scheduled commencement date for any reason for which Siemens is not responsible, then Purchaser and Siemens shall agree on a new commencement date and additional costs incurred by Siemens caused by rescheduling shall be reimbursed by Purchaser.

*Pradeep Singh*

For & On Behalf of Siemens Ltd

Mr. Pradeep Singh

Mr. Meduri Vijaykiran

Witness 1

Witness 2

**24. CONFIDENTIALITY**

24.1 Any information made available to the Purchaser by the Siemens in connection with this Contract shall be treated as confidential and shall not disclose, share with anyone. The Purchaser shall use the information only for the purposes specified in this Contract. This confidentiality obligation shall not apply to information which the Purchaser can demonstrate:

- a) is already in the public domain or becomes available to the public through no breach by the Purchaser of this confidentiality undertaking or;
- b) was in the Purchaser's possession prior to receipt from the Siemens without a confidentiality undertaking or;
- c) has thereafter been legally obtained without confidentiality obligation from others or;
- d) is independently developed by the Purchaser who had no access to the information received hereunder.

24.2 Purchaser agrees to appropriately instruct its employees having access to information of Purchaser's confidentiality obligations and to duty restrict access of such information to employees who have a need to know it in their scope of employment. Purchaser agrees to carefully protect Siemens's information, and to do this at least with the same degree of care used in protecting its similar information but in no case less than a reasonable standard of care.

24.3 In the event Siemens has consented to the disclosure of information to a third party by Purchaser, Purchaser shall procure that such third party undertakes to be bound by the confidentiality obligations imposed on Purchaser by this Contract and shall indemnify and hold harmless Siemens from any damage incurred through the breach of said confidentiality obligation by the third party.

24.4 The obligations set forth in this clause 24 shall survive any termination of the Contract.

**25. SERVICE IN SIEMENS' WORKSHOP IN INDIA**

If contractual scope of work specifies that Purchaser's machines / equipment need to be taken to Siemens works in India for inspection / testing / servicing, Siemens will carry out such works under following terms:

25.1 Detailed Scope of Work shall be as specified in Siemens offer to the Purchaser or Siemens requires in writing such a need to service the machines / equipment in Siemens Workshop.

25.2 Purchaser will be responsible for transporting his machine / equipment from premises to Siemens' works. After specified work has been done or if accorded, Siemens, all services technically or otherwise possible have been completed (even if Siemens could not complete all required services as per scope of work due to technical reasons), Siemens will notify Purchaser to take delivery of his machine / equipment.

25.3 Within 30 days of Siemens' notification, Purchaser will take delivery of his machine, failing which Siemens will be free either to dispose of the machine in whatever manner Siemens deems fit and proper or to keep the machine in storage with a third party, both at Purchaser's risk and cost.

25.4 Purchaser shall be responsible for transit insurance to and from his premises and Siemens' works.

25.5 Siemens shall take insurance cover of the machine for the period from the date the machine has been delivered to Siemens' works up-to scheduled delivery date or the date which Siemens shall notify in the notification to Purchaser for taking delivery, whichever is earlier. Nature of insurance cover shall be depreciated value of the machine as per account book of the Purchaser and not replaceable or market price of the equipment.

In case of any damage or loss of equipment, while in Siemens' works, Siemens will arrange to lodge claim with the insurance company ("Insurance Company") and as per policy, the amount upon being received will be transferred to Purchaser's account. Siemens shall only be liable in settling the claimable money from the Insurance Company, as decided by the Insurance Company and Siemens takes no liability of any other compensation to be paid by the Insurance Company on the settlement amount shall be flowing to Purchaser and Purchaser shall have no other claim against Siemens.

*[Signature]*

PRINCIPAL

MVGR College of Engineering  
Vijayarani Nagar, Chintalavala  
VIZIANAGARAM-538006

For & on MVGR College of Engineering,  
Chintalavala, Vizianagaram

*[Signature]*

*[Signature]*

Witness 1

Witness 2



## 9. CHANGES

9.1 Purchaser shall have the right to request, in writing, changes in scope of Services hereunder. Siemens will then prepare a notification reflecting all contract modifications resulting from such request, including, but not limited to, prices and schedule. Siemens shall have no obligation to proceed with such request or change rider until the parties have agreed in writing to the terms of such change order.

9.2 In the event that additional service is required as per 9.1 or due to an unforeseen event or otherwise, the cost of additional service and all other costs and expenses incurred by the Purchaser, as a consequence hereof shall be borne by the Purchaser.

9.3 Sub-clause 9.2 shall also be valid for any changes after Contract date in law or engineering standard that may be imposed after Siemens' proposal has been submitted, including a revision in the Contract price. Where this is not commercially reasonable Siemens shall have the right to terminate the Contract.

## 10. FORCE MAJEURE

10.1 If performance of any obligation under the Contract (other than an obligation of the Purchaser to make payment) is prevented, restricted or delayed by any act of God, act or omission of government, war, hostilities, industrial dispute (including go-slow and work to rule actions) at either party's premises or elsewhere, failure or breakdown of essential machinery or equipment, fire, explosion, accident or breakdown of essential machinery or equipment or caused by the delay of a sub-Siemens (such delay not being the fault of the Siemens) or by any cause (whether similar or not to any of the above events) beyond the reasonable control of the party whose performance is affected, then that party shall be excused from and shall not be liable for failure in performance to the extent of that prevention, restriction or delay. The party wishing to claim relief by reason of any of the said circumstances shall notify the other party in writing without delay on the intervention and on the cessation thereof. Siemens shall be entitled to relief or compensation for delay for which it is not responsible.

10.2 If performance is delayed for more than six months by any cause referred to in the above sub-clause and the parties have not agreed upon a revised basis for continuing the contract at the end of the delay, then either party may after that period and while the cause of the non-performance still exists terminate the contract by not less than 30 days' notice in writing to the other party, in which event the provisions of the Termination Clause shall apply.

## 11. WARRANTY

11.1 Siemens warrants that the Services provided hereunder including the engineering services of its personnel and the technical information, reports, analyses and recommendations provided in connection with the Services are competent and consistent with prudent engineering service practice. Siemens warrants against deficiency of Services for a period [6] months from the date of delivery or acceptance or commercial use of Services, as the case may be, which ever is earlier.

11.2 All deficiencies in the Services, which have been detected and notified within the warranty period, shall, at Siemens's option, either be rectified, or replaced a new service free of charge to the Purchaser.

11.3 For a maximum period of [6] months from the conclusion of the Services described in 11.1, Siemens shall correct deficiencies in the repair work or in the re-performance of the Services.

11.4 This warranty shall not apply to the quality or suitability of equipment and material provided by the Purchaser, nor to services performed by the Siemens' personnel that are outside the scope of the Contract, i. e. that are performed without Siemens' approval. Siemens shall not be liable for the improper performance of work done by personnel provided by the Purchaser, providing, however, that Siemens is able to prove that the deficiency or fault is not attributable to its incorrect instructions or to any breach of its supervisory obligations.

11.5 Neither shall this warranty apply to normal wear and tear or damages emerging after transfer of risk and resulting from improper, non-compliant use, unsuitable operating material or lubricants, faulty civil or mechanical works, unsuitable soil conditions and all other influences which have not been provided for in the contract.

11.6 The Purchaser shall give Siemens immediate notice in writing of any alleged deficiency or fault and shall grant Siemens such period of time as is reasonable for Siemens to locate, verify and remedy the deficiency or fault.

11.7 The warranties and performance guarantees set forth in this article are exclusive and are in lieu of all other warranties and performance guarantees, whether statutory, express, or implied (including all warranties of merchantability and fitness for a particular purpose, and all warranties arising from course of dealing or usage of trade). Correction of non-conformities in the manner during the period of time provided above constitute Siemens' sole and exclusive liability and Purchaser's sole and exclusive remedy for defective or nonconforming Services whether claims of the Purchaser are based in contract (including fundamental breach or breach of a fundamental term), in tort (including negligence and strict liability), or any other theory of recovery.

## 12. LIABILITY

12.1 In all cases the party establishing or alleging a breach of contract or a right to be indemnified in accordance with the Contract shall be under a duty to take all necessary measures to mitigate the loss that has occurred provided that he can do so without unreasonable inconvenience or cost.

12.2 Under no circumstances Siemens or the Purchaser shall be liable to the other by way of indemnity or breach or of statutory duty or by reason of tort (including but not limited to negligence) or otherwise for any loss of profit, loss of use or interruption of operations, loss of production, loss of third party contracts, loss of information and data, loss of revenues or of anticipated savings, any increase

in operating costs, or for any financial or economic loss or for any indirect or consequential loss or damage whatsoever that may be suffered by the other.

12.3 In no circumstances whatsoever shall the liability of Siemens to the Purchaser under all or any conditions in aggregate exceed the [50] % of contract price already paid.

12.4 The Purchaser shall indemnify Siemens against any and all claims in respect of or consequent to pollution or release of substances capable of causing harm to living organisms or interference with ecological systems arising from the services whether or not resulting from the negligence of any person.

12.5 For the purposes of this Limitation of Liability clause under 12.3, Siemens contracts also on behalf of its employees, agents, subcontractors and Siemens who shall have no greater liability in relation to the Contract than Siemens.

12.6 If the Purchaser is not or shall not be the sole end user and ultimate owner of services or is procuring them for the benefit of any kind of joint venture, then the Purchaser shall ensure by its contract with the end user or ultimate owner or participants in the joint venture that Siemens is given the benefit of exclusions and limitations of liability by all such users, owners or participants (which shall apply as if the user, owner of participant were the Purchaser) and shall indemnify Siemens against claims of any kind by them to the extent that Siemens would not be liable therefore to the Purchaser under the Agreement if the claim had been made by the Purchaser.

12.7 In any event Siemens' liabilities under this Agreement shall expire at the end of the warranty period.

## 13. PATENT INDEMNITY

This paragraph states the entire liability of Siemens with respect to patent infringement. 13.1 If any proceedings are brought or any claim is made against the Purchaser, the Purchaser agrees to immediately notify Siemens and must not acknowledge the validity of the third party patent claim. Siemens shall have the exclusive right to conduct the legal defence of any actions brought against Purchaser relating to a patent infringement. Siemens shall have the exclusive right to settle or otherwise terminate such actions on behalf of Purchaser. The Purchaser agrees to afford all viable assistance to Siemens in conducting such proceedings or claim. Siemens shall at its option and expense either obtain a right to use the patent the subject of the patent infringement claim or modify its supplies/products so as to not to infringe the said patent. If this is not reasonably possible for Siemens, the Purchaser shall be entitled to terminate the Contract whereupon Siemens shall take back the relevant tools or equipment the subject of the infringement proceedings and refund the price received.

13.2 Siemens shall have no obligations hereunder and this paragraph shall not apply (1) to any other services, including services supplied hereunder by Siemens which have been altered; or (2) to any patent issued after the date hereof, and (3) in the event any of said actions are settled or otherwise terminated without the prior consent of Siemens.

13.3 To the extent that said services or any part thereof is modified or altered by Purchaser, an action is brought against Siemens, Purchaser agrees to defend and indemnify Siemens in the manner and to the extent Purchaser indemnifies Purchaser in this "Patent Indemnity" Paragraph. This paragraph is also valid after expiry of this agreement.

## 14. TAXES

The Contract price does not include any sales, service, excise, value added or duties, entry or any other taxes which may now or hereafter be applicable to, or imposed upon with respect to the Services provided hereunder or part thereof including any supplies included therein. Purchaser agrees to bear or pay or reimburse Siemens, its contractors or sub-contractors any such duties or taxes which Siemens, its contractors or sub-contractors are required to pay or collect or which are required to be withheld.

## 15. LAWS AND REGULATIONS

Siemens does not assume any responsibility for compliance with central, state, or local laws and regulations, except as expressly set forth herein or as required under law for a service provider, and compliance with any laws and regulations relating to the operation or use of the services or parts thereof is the sole responsibility of the Purchaser. All laws, regulations and design codes expressly incorporated herein shall be those in effect on the date hereof.

## 16. EXPORT CONTROL

16.1 If Purchaser transfers goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by Siemens or works and services (including all kinds of technical support) performed by Siemens to a third party worldwide, Purchaser shall comply with all applicable national and international (re-)export control regulations. In any event Purchaser shall comply with the (re-)export control regulations of the Federal Republic of Germany, of the European Union and of the United States of America.

16.2 If required to conduct export control checks, Purchaser, upon request by Siemens, shall promptly provide Siemens with all information pertaining to particular end customer, destination and intended use of goods, works and services provided by Siemens, as well as any export control restrictions existing.

16.3 Purchaser shall indemnify and hold harmless Siemens from and against any claim, proceeding, action, fine, loss, cost and damages arising out of or relating to any non-compliance with export control regulations by Purchaser, and Purchaser shall compensate Siemens for all losses and expenses resulting thereof, unless such non-compliance was not caused by fault of the Purchaser. This provision does not imply a change in burden of proof.

16.4 Siemens shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions.

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*[Handwritten signature]*

## Centre of Excellence - Embedded Systems

### The Service Provider

**ThinkLABS Technosolutions Pvt Ltd** (the "Service Provider"), a private limited company and existing under the Company Act of 1957, with its head office located at;

113/114 Phulora, Jain Mandir Marg,  
IIT Market, Powai,  
Mumbai 76, Maharashtra

### The Client

**Maharaj Vijayaram Gajapathi Raj College of Engineering** hereby referred to as MVGR (the "Client") was established in 1997;

The above mentioned parties mutually agree on the following

### Embedded Lab set-up

Under the guidelines of center of excellence, ThinkLABS will include the following indigenously designed hardware platforms for the laboratory:

S.No	Product	Quantity	Unit rate	Total
1	UniCon	13	7,084.00	<b>92,092.00</b>
2	UniBoard	13	6,808.00	<b>88,504.00</b>
3	Tuxedo	6	18,216.00	<b>1,09,296.00</b>
Total				<b>2,89,892.00</b>
Prices after Taxes (VAT @5%)				<b>3,04,386.60</b>

### Terms and Conditions

- **State government taxes:** as applicable at the time of delivery.
- **Warranty** : One year
- **AMC** : 10% of the cost of Purchase order per year.
- **During warranty and AMC periods the defective kit(s) should be replaced.**
- **Payment** : 100% advance for each consignment
- **Transport** : inclusive

- **Delivery** : within one month from the date of receipt of advance Payment
- **Training** : should be provided on all kits by your training partner

**ThinkLABS Technosolutions Pvt Ltd** at college premises

### Knowledge Sharing – Faculty Development Program

- ThinkLABS faculty would train the faculty of MVGR on the customized course, starting from the very basics to the advance level embedded systems.
- At the end of the program MVGR faculty in turn can transfer the knowledge to the students of MVGR
- The program would be restricted to training 8 faculty members from MVGR.
- The faculty from MVGR should be from E&TC background and should have a basic knowledge of embedded systems.
- ThinkLABS would run the faculty development program at the premises of the partner institute.
- The lodging of the faculty visiting MVGR for FDP (Faculty Development Program) is to be arranged by MVGR
- ThinkLABS would not be charging anything extra to MVGR for the course material to be distributed among the students, MVGR can distribute it to as many students as they want
- MVGR cannot distribute the course content or structure to any other educational institutions, training centers or to students belonging to other institutions.
- The FDP would be a total training of 130 contact hrs to the faculty, the detail of the portion to be covered is mentioned above.
- The program as discussed can be split into two parts. The first part of the program will be covered in the winter break in November(2010), the remaining part in April / May 2011, exact dates and timings can be mutually decided

### Detailed Program Content:

#### **Course details for the 8051 basic level program- 20 hr**

- C Programming – 12 hr
- Features of  $\mu$ C &  $\mu$ P, 8051 architecture, ports , LCD – 8 hr
- UART Programming – 6 hr
- Timer/counter – 4 hr
- External Interrupts – 4 hr
- Activity:
  - Digital clock – 6 hr

### Course details for the for the flagship Imperium Program – 90 hr

Embedded Systems programming 1	Embedded systems programming 2	RTOS programming 1	RTOS programming 2
<ul style="list-style-type: none"> <li>• C Programming</li> <li>• Introduction to embedded C</li> <li>• Embedded C programming</li> <li>• Introduction to AVR microcontroller</li> <li>• Basic microcontroller programming</li> <li>• Port programming</li> <li>• UART</li> <li>• LCD interfacing</li> <li>• Timer</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced AVR programming</li> <li>• Interrupt programming</li> <li>• Joystick interfacing using ADC</li> <li>• EEPROM programming</li> <li>• Communication protocols</li> <li>• UART</li> <li>• IIC and RTC programming</li> <li>• SPI programming</li> </ul>	<ul style="list-style-type: none"> <li>• Data structures</li> <li>• Linked list implementation</li> <li>• Stack implementation</li> <li>• Queue implementation</li> <li>• RTOS</li> <li>• Introduction to <math>\mu</math>C/OS</li> <li>• Task management concepts</li> <li>• Scheduler</li> <li>• RTOS programming</li> </ul>	<ul style="list-style-type: none"> <li>• Using semaphores - mutex</li> <li>• Priority inversion avoidance with mutex</li> <li>• Inter-task communication</li> <li>• Mailbox</li> <li>• Message queue</li> <li>• Case Study</li> <li>• Snake using RTOS</li> <li>• Snake game implementation</li> </ul>

### Course details of Linux system programming course – 20 hr

- Overview of Linux, general commands, shell scripting
- Processes in Linux, Signals
- Inter-process communications, Pipes and FIFO's in Linux
- System V IPC's (semaphores, shared memory and message queues)
- Threads in Linux, POSIX Semaphores and Mutexes
- Sockets, client-server architecture
- Compilation of sources to generate binaries, Booting Linux on Target board
- Overview of Device drivers

ThinkLABS should conduct a total course training of 130 hrs for the faculty of MVGR College of Engineering.

### Certification and Evaluation Process

- The students performance would be evaluated by MVGR (as per the guidelines provided by ThinkLABS) and certified by ThinkLABS and Indian Innovators Association ( The details of the same are with MVGR) after the completion
- ThinkLABS would be charging Rs. 300 per student for the certification exam
- Every student must attend 75% of the contact hours to be eligible for appearing for the exam

## Review of course material and perpetuating knowledge

- After each batch gets certified ThinkLABS would review the course content in close coordination with MVGR and the changes (if required) would be incorporated in the next batch's curriculum. The charges would depend on the number of hours the faculty would have to be trained on the revised content
- In case any of the faculty members leave MVGR, the remaining faculties can train new members on the program. ThinkLABS would help MVGR with the process

## Financials of the proposal

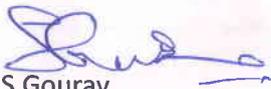
### Faculty development program

Total cost for delivery to 8 faculty members (inclusive of government taxes): **INR 2, 14,500**

Certification charge for students – INR 300 per student.

### Payment terms

- Faculty Development Program:
  - I. 50% of the total amount is to be paid 1 week before the commencement of the first session.
  - II. Remaining 50% is to be paid 1 week before the commencement of the second session.
- Certification payment:
  - I. The total amount be collected by the program coordinator (from MVGR) from students and be given to ThinkLABS one week before the exam date.



S.Gourav

Director, ThinkLabs

IIT Mumbai

05-09-11



PRINCIPAL

MVGR College of Engineering

05-09-11