



Odisha's first Private State University with NAAC 'A' Grade & UGC 12(b) status and govt. notified Skills University & MSDE notified Center of Excellence

Operates 10 schools across 5 constituent campuses in Odisha & AP. Has a **School of Vocational Training is** incorporated in the act, to underline its commitment towards skill development & vocational education & provide additional impetus to its partnership with **NSDC**



CENTURION UNIVERSITY: MISSION, VISION, VALUES

VALUES

sustenance

"To be an accredited human resource hub of excellence for catalyzing sustainable livelihoods in challenging geographies"
 Converging education with employability, employment, and entrepreneurship through lighthouse projects, real time products, and appropriate and relevant skilling and application of technology

Inclusivity, equity, equality in economic, environmental, educational



Key Milestones of CUTM's skilling journey



State enacted University with NAAC 'A' Grade 27-Aug-2010

First Educational Institute to secure SGSY project in 2010; First NSDC partner







PUBLISHED BY AUTHORITY

No. 1383, CUTTACK, WEDNESDAY, AUGUST 30, 2017/BHADRA 8, 1939

SKILL DEVELOPMENT & TECHNICAL EDUCATION DEPARTMENT
NOTIFICATION

The 30th August, 2017

No.4307–SD-MIS-48/2017/SDTE.— Whereas, the Government had issued a set of guidelines for recognition of a University as Skill University in the State, vide SD&TE Department Notification No.3653/SDTE., dated the 26th July, 2017,

Whereas, in response to the same only one university, i.e., Centurion University of Technology and Management(CUTM) had submitted an application for its recognition as Skill University,

Odisha's first Skills
University
30-Aug-2017

NSDC, FICCI awards, recognitions, UN citations & Skills University status







भाग I—खण्ड 2 PART 1—Section 2

प्राधिकार से प्रकाशित PURLISHED BY AUTHORITY

प्तं. 23] पई दिल्ली, बृहस्पतिवार, दिशम्बर 6, 2018/अग्रहायण 15, 1940 o. 23] NEW DELHI THRUSDAY, DECEMBER 6, 2018/AGRAHAYANA 15, 1940

कौशल विकास और उद्यमशीलता मंत्रालय

(राष्ट्रीय कौशल विकास एजेंसी)

आधसूचना

नई दिल्ली, 27 नवम्बर, 2018

फा.सं. 4300/02/2013-पुनप्सदीए,—वित्त मंत्रालय (अर्थिक कार्य विभाग), भारत सरकार द्वारा राष्ट्रीय कौशल अर्हता बांचा (एनएसक्तृष्फ) पर दिनांक 27 दिसंबर, 2013 की अधिसूचना संख्या 8/6/2013-निवंश के साध्यम से राष्ट्रीय

MSDE's Awarding body for Short Term skilling 27-Nov-2018

Empaneled by different states for skill assessments & certifications







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Unta an eligible The Gazette of India

EXTRAORDINARY

भाग I —खण्ड 2

PART I—Section 2

प्राधिकार से प्रकाशित PUBLISHED BY AUTHORITY

नई दिल्ली, मंगलवार, नवम्बर 19, 2019/कार्तिक 28, 1941

कौशल विकास और उद्यमशीलता मंत्राव

अधिसूचना

नई दिल्ली, 18 नवम्बर, 2019

सं. **एक. एसडी-17/123/2019-एसए/एमएसडीई.**—राष्ट्रीय कौशल विकास और उध्यमशीलता नीति, 2015 ¹ अनुच्छेद 4.1.3 और 4.9.6 के अधीन निर्देश तथा उन्कृष्टता केंद्र की, नए मिरे से अथवा कौशल विश्वविद्यालय प्रणाती के आ के तौर पर, स्थापना संबंधी 09 अगस्त, 2019 की अधिमृतना के तहत तैयार दिशा-निर्देश के अनुसरण में ओदिशा सरका

MSDE's first Center of Excellence

18-Nov-2019

Teaching, Training Production model given recognition by MSDE





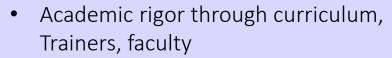
Enacted in 2010, CUTM was declared to be Odisha's first & only Skills University in 2017; Declared MSDE's first Center of Excellence and Awarding Body

Institutional model with Industry, Academia, Government & Social entrepreneurship

- Policy, standards, funding through various schemes, governance;
- Credibility & outreach for mobilization



Industry



Assessments, Certifications & qualifications for higher education





Social Entrepreneurship



Academia





- Technical & knowledge support: equipment, curriculum, Training of trainers
- OJT & employment opportunity



Industry connect, Placements, post placements support

An integrated ecosystem focused on building competencies & skills

Community outreach through incubation & social entrepreneurship



CUTM Center for Innovators & Entrepreneurs

Gram Tarang Employability Training Services Pvt. Ltd.

Gram Tarang Foods Pvt. Ltd.

Gram Tarang Inclusive Development Services Pvt. Ltd.

Urban Micro Business Center [Section 8 Company]

Gram Tarang Technologies Pvt. Ltd.

Gram Tarang Technical Vocational Education & Training Pvt. Ltd.

Skill building for employment & selfemployment in partnership with NSDC

Pure & Natural CO₂ extracts, Select oils, oleoresins & total extracts from organic spices & herbs

Banking correspondence services to unbanked villages through 10,000+ BCs

Nano / Mini / Micro entrepreneurship among urban poor resulting in livelihood opportunities aligned with community needs

Industry 4.0 skills for University students & developing design solutions for industry

EdTech startup focused on further education, career paths & growth for blue collar workers

Building best in class training infrastructure













Coimbatore



...with a sectoral focus & extensive industry integration...

Automotive



² Manufacturing & Energy



Agriculture



Hospitality



Healthcare























GE Healthcare



.... innovative industry ready programs

3D Design, VR, Gaming





Automotive



Ramadevi Women's **University & CBSE**





GE Healthcare

Healthcare





- Training in 3D software across 55 colleges of AP
- 25,000 enrolled to date; To be extended to Gaming
- Advanced automotive training in electronic diagnostic tools relevant for BS VI
- Integrating Skills with Higher education & school education
- Trainer Qualifications Framework

- Paid model for OT/AT & XR Technicians in AP
- Long term courses linked with Manipal Hospitals

...in 8 states across the country...

OUR PRESENCE

- 9 States | 35 Centers
- 300,000 trainees enrolled to date
- 70% eligible candidates placed

Odisha: 18 Centers

Assam, Meghalaya: 4 centers

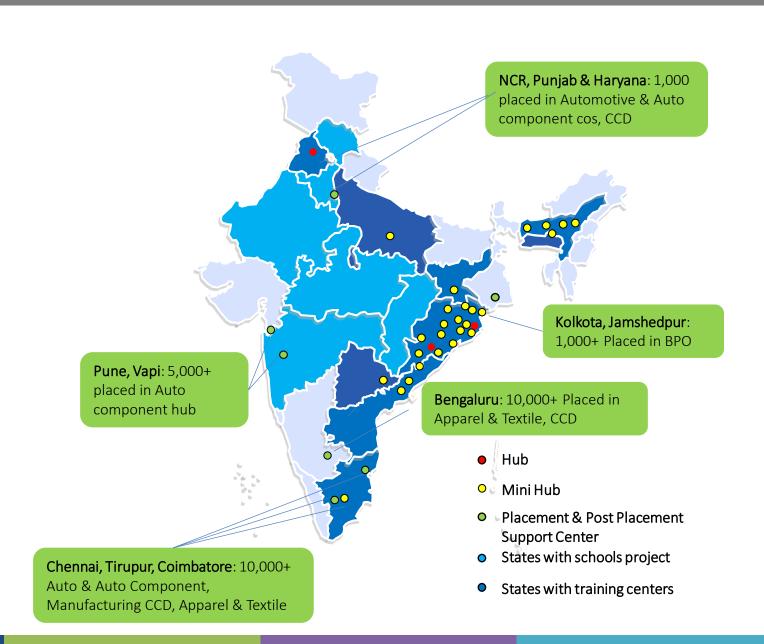
NCR, UP, Jharkhand: 1 Center each

Punjab: 2 centers

Destinations: 7 centers

MP, Maharashtra, Rajasthan, Haryana,

Delhi, Chhattisgarh: NSQF Schools



Paid Courses

Government Schemes

Industry & CSR

ITI, Diploma, Degree+

DDU GKY

Placement linked skill training for rural poor

NULM

Skills for Urban Poor **PMKVY**Skills for all

CCD, Ashok Leyland, Mindtree, Gap













Inclusiveness & Integration in course design

School **Dropouts**

& Textiles

Sewing Machine Operator,

Fitter, Welder, Carpenter,

Plumber, Driver

Govt. funded, short term

placement linked

schemes

NIOS for Matriculation;

Sector Skill Councils

Manufacturing, Apparel Sectors

Courses

Funding

Certification

10th/12th Pass

Automotive, Manufacturing, Retail, Hospitality, IT/ITeS

Service Technicians. Electricians, Fitters, Retail / BPO / Hospitality

Self Funded courses or sponsored through CSR

NCVT ITI / Diploma / **Industry Certifications**

ITI / Diploma / Degree

Electronics, Precision Engineering, Design, Services

CAD/CAM, Automation, PLC/ SCADA, Embedded Systems

Self funded advanced skill courses

> Centurion University Certifications

Differently abled & socially excluded

Hospitality, Apparel & Textiles

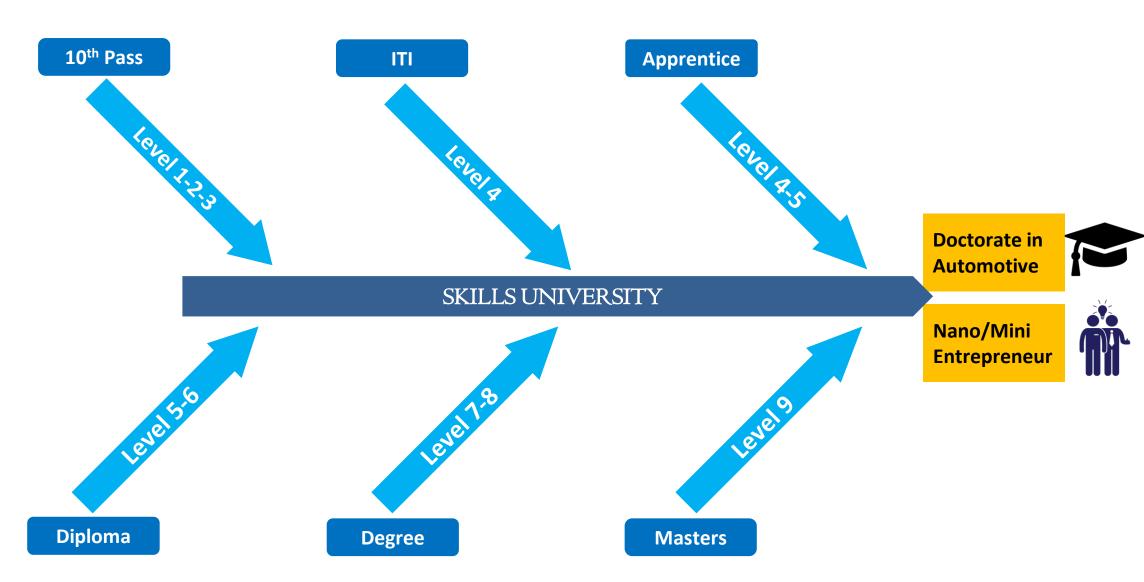
Coffee Brewmaster, Hospitality Associate, Sewing Machine Operator

CSR Support from Mindtree Foundation & **GAP** Foundation

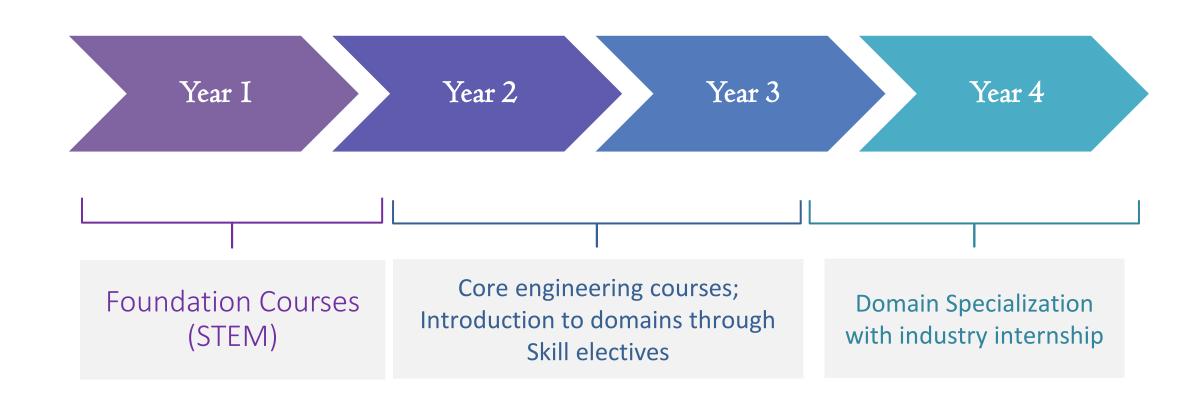
Centurion University Certifications

© Centurion University | Gram Tarang

Horizontal & vertically integrated inclusive, aspirational learning model in action



Revamping the traditional HE curriculum at CUTM



CUTM recognition as Skills University & Center of Excellence for Ministry of Skill Development & Entrepreneurship

1.1

16 criteria met for recognition as Skill University in Odisha



EXTRAORDINARY PUBLISHED BY AUTHORITY

No. 1265, CUTTACK, SATURDAY, AUGUST 5, 2017/ SRAVAN 14, 1939

SKILL DEVELOPMENT & TECHNICAL EDUCATION DEPARTMENT

NOTIFICATION

The 26th July, 2017

Sub: guidelines for recognition of a University as Skill University in the State.

No. 3653—SD-MIS-48/2017/SDTE.— The proposal for recognition of any existing Government / Private University of the State as Skill University by according the status of the Skill University to it was under active consideration of the Government. Hence, in order to facilitate the same, Government have been pleased to prescribe the following guidelines / eligibility criteria for recognition of the existing Government / Private Universities of the State as the Skill University:—

- 1. The concerned University should have been in existence for minimum five years with approval of UGC and without any break.
- 2. It should have minimum five years of experience in imparting short term and long term skill training.

- **3.** The University should have obtained National Assessment and Accreditation Council (NAAC) certification with at least 'A' Grade.
- **4.** The University should have the experience of skilling 25,000 youth in last five years under Government programmes or Government agency sponsored schemes/certification with a proven capacity to train at least 5,000 youth per annum.
- 5. It should have earned a national reputation on skill development.
- 6. It should have the experience of working with State Govt. Departments and Govt. of India Ministries / agencies in the field of skill development.
- **7.** It should have established partnership with various agencies such as NCVT/ SSC of the Ministry of Skill Development in the field of skill training and assessment.
- 8. It should have tie up arrangements with leading Industries in the field of skill training.
- 9. It should have well equipped laboratories and workshops for imparting state of the art skill training to the trainees.
- 10. It should be imparting multi disciplinary course curricula in the field of technology and skill.
- 11. It should have well trained faculties with industry exposure.
- 12. Adequate accommodation/hostel space for the trainees should be available with the University.
- 13. It should have proven track record of social and community engagement.
- 14. Obtaining 12(B) status from UGC would be an added advantage.
- 15. Ongoing partnership with NSDC shall also be an added advantage since NSDC monitors the training quality and numbers.
- 16. Providing skill training to differently able and other such special categories of youth as part of inclusiveness is desirable.

A rigorous evaluation process was followed for the Skill University Recognition

Five broad criteria established by MSDE for CoE recognition

1

Track Record of Skill Training

HPCL: Skilling of Hearing & Speech impaired youth.

SBI Foundation : Medical skill development training

HSBC: Skill Development of youth in ITeS and BFSI

OPTCL : Skill
Development of youth
in Power sector

And many more...

2

Infrastructure

Center for Apparel Training

Center for Automobile

Center for Testing Labs

Center for Wood Engineering

And many more...

3

Competent Human Resources

Dr. A M Mohanty (ProVC, SOVET, CUTM)

Jagannath Padhi (Director, SOVET, CUTM)

Tapan K Rath (Dean, SOVET, CUTM)

Training and Admin staff

And many more...

International Associations

TAFE Western, for Vocational Studies

Various Australian Universities

GAP Foundation, US Consulate for English

International Labor Org. for Life Skill & Career Training

And many more...

)

TOT and Partnerships

PACE & WADHWANI FOUNDATION ToTs

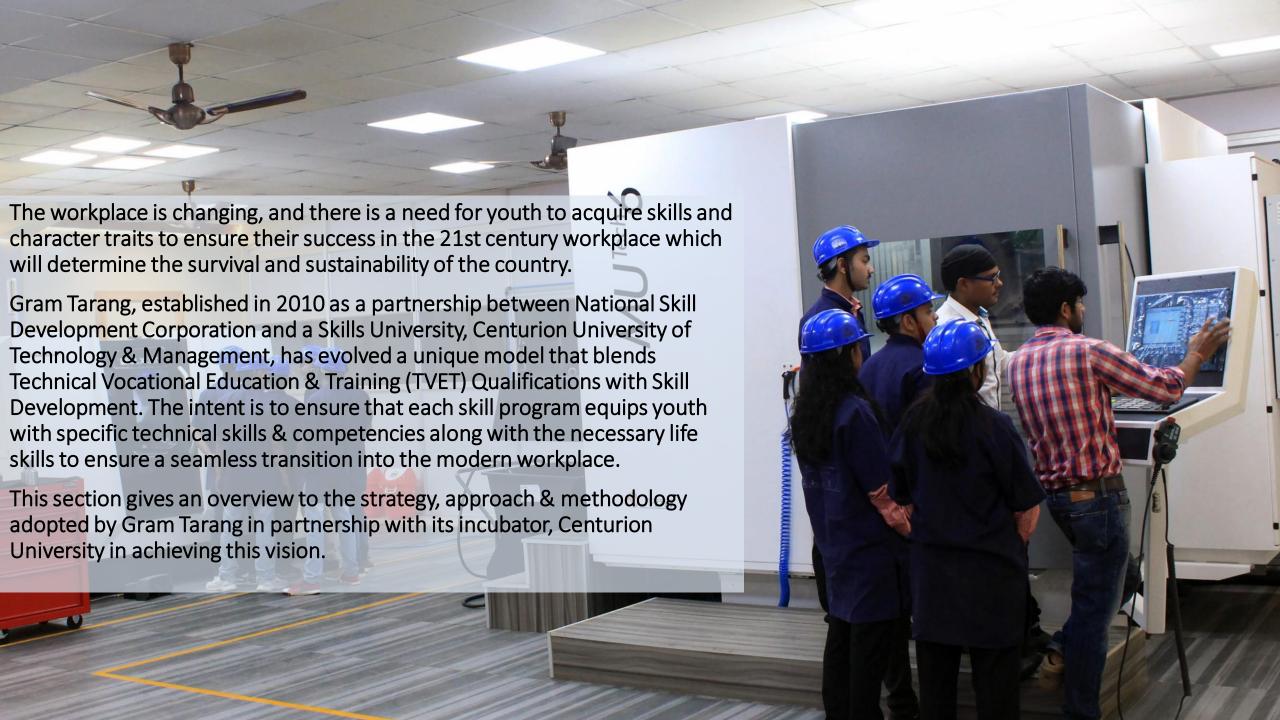
SoVET-CUTM TOT for all PIAs of ORMAS, PR&DW Dept, Govt of Odisha

SoVET, CUTM TOT for trainers from all PIAs of Odisha Skill

SoVET, CUTM TOT Officers of Govt. ITIs from all over Odisha DTET, SD & TE Dept.

And many more...

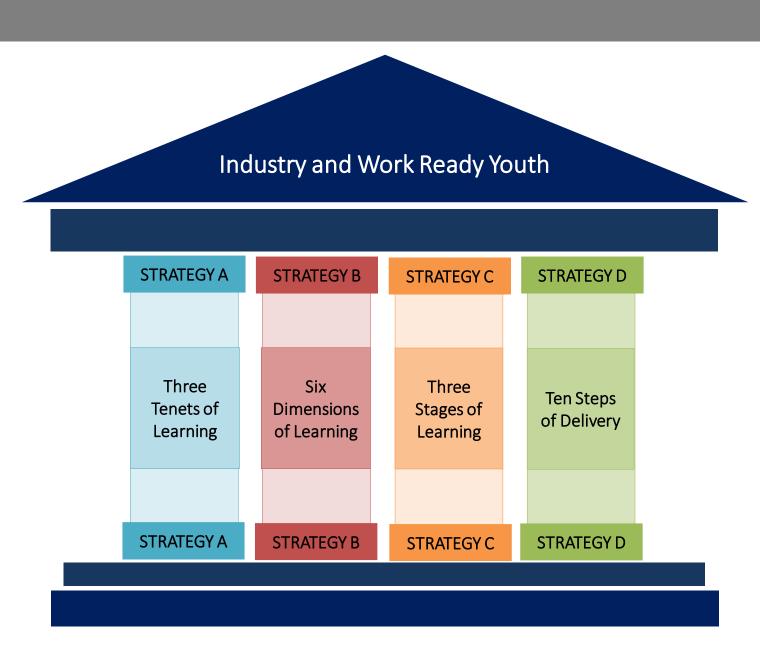




Our approach to learning

GTET's strategic framework & approach to skill development is based on the 4 strategies

- 1. Learning Philosophy: Hands on, Experience based learning
- **2. Dimensions of Learning :** Six Dimensions of Skills
- 3. Stages of Learning: Three stages of Learning Teaching, Training & Production
- 4. Delivery strategy & Process Orientation: Ten Step Delivery Model.



STRATEGY A: Hands on Learning

- The curriculum is one that allows for:
 - alternate ways and means of teaching & learning;
 - multiple points for entry & exit, and
 - one that is not theoretical & esoteric.
- The learning needs to be <u>hands-on</u>, <u>experience-based</u> and <u>practice-</u> <u>oriented</u>.
- The system of education should embrace diversity & take education to those who were most deprived & most in need of a livelihood
- Teaching >> Training >> Production becomes the model for delivery of this curriculum



Experiential Based Learning

 Focus on building technical competencies and hard skills through machine-based training



Practice Oriented Pedagogy

- 20% Theory
- 20% Life Skills, IT Literacy & Personality Development
- 60% Practical in the workshop



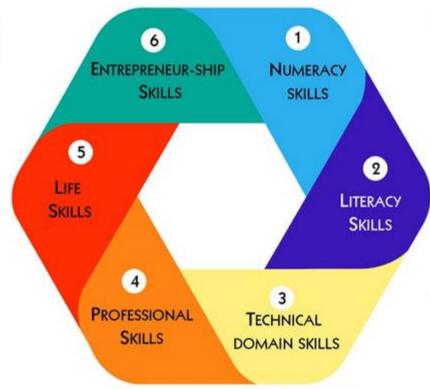
Hands on knowledge & skills

• Each skill program finishes with a live project in terms of production — welding, fabrication, machining, garment, serving coffee, working with patients, etc.

STRATEGY B: The Six Dimensions of Skills

- Skill is not only limited to that what is learnt hands on, and a key focus has to be made on the softer aspects of the development.
- Therefore it has to be multi dimensional (or six dimensional to be precise).
- In addition to the Technical Domain the student will need to learn:
- 1. Numeracy
- 2. Literacy
- 3. Professional Skills
- 4. Life Skills
- 5. Entrepreneurial Skills

- Entrepreneurial Skills: Encouraging students to gain hands on experience & through live production & incubating them to become nano/mini/micro entrepreneurs.
- Life Skills: Abilities for adaptive and positive behavior that enable individuals to deal effectively with the demands and challenges of work life & employment like IT literacy, financial literacy & legal literacy, financial planning for self and family, health, health, hygiene & sanitation.
- Professional Skills: The key behaviors, actions and thinking processes necessary to build a successful career like values, ethics, integrity, teamwork, communication, planning, time management & leadership etc.



- Numeracy skills: Ability to use mathematical understanding and skills to solve problems and meet the demands of the job e.g. workshop measurement, calculation & basic arithmetic.
- Literacy skills: Capacity to read, understand and appreciate various forms of communication including spoken language, printed text and digital media required for the industry & trade.
- Technical domain skills: Trade specific technical or core knowledge & practical skills required for expertise in a trade.

STRATEGY C: The Three Phases of learning

- The learning system of GTET provides a holistic view of learning to the student that ensures that she/ he is skilled for the job market but also passes the academic rigour expected of a student of the same qualification level.
- GTET has no intention of diluting the learning of the student from the current system, but instead reinforce that learning with more practical/ hands on learning. This is done through the three phases of learning:
 - **1. Traditional Learning** in classroom
 - 2. Applied Learning in lab
 - **3. Action Learning** through live production



PHASE I: TRADITIONAL LEARNING

- TEACH ME
 - Traditional learning methods of building a foundation for the course which will involve development of trade specific knowledge, literacy, numeracy & technical skills.
- SHOW ME

Learning through practical demonstration in workshop or work environment where trainees will observe tasks and procedures being completed, making notes along the way and understand SOPs.

PHASE II: APPLIED LEARNING

LET ME PRACTICE

As the saying goes... practice makes perfect! Industry specification machines & production environment for hands on learning and working on the practical elements of doing the job.

PHASE III: ACTION LEARNING

Assess Me & Tell me how I am doing

Assessment is a continuous process with daily assessment of practical learning on dimensions of accuracy, process & time taken.

6 LET ME SHOW YOU WHAT I CAN DO

Trainees turn to demonstrate learning and independently practice the learning from doing jobs & practical while producing a good or service of social-economic value in a live production environment.

RECOGNIZE ME

Skill championship to build competitive spirit and recognize the high performers of each batch. Independent IIIrd party assessment through Sector Skill Councils or NCVT for final certification of a new "professional".

STRATEGY D: Process Orientation & Ten Steps of Delivery

- The delivery of the training is key for the success of any program.
- While the training itself is important where the development and selection of the trainer is crucial there are other aspects around the training that is important for the success:
- <u>Counselling</u> of the candidates before, during and after the training. This is important to ensure that the students are motivated and their aspirations are aligned to the real world circumstances;
- <u>Assessment</u> with a proper feedback and remedial system;
- Post placement support, particularly to ensure the student has access to the University for further learning and growth.



Models of working with Industry

- Over the past 10 years GTET has been working across various companies to introduce industry practices and the latest technologies to its students.
- It has been the experience that there is no "one size fits all" model for Industry partnerships, the approach with various industries depend on a number of factors:
 - The business cycle they are in;
 - The partnership needs to be positioned within the long-term strategic vision of the company

 especially from a commercial perspective (it cannot be a grant or CSR only);
 - The output of the training has to have a concrete impact on the company's top-line and/or bottom-line.
- Therefore, it is important to be flexible on the form of partnerships with various industries with the aim of having the maximum possible.



Work Integrated Training at the Industry Location:

- GTET has partnerships with Industry Partners where its students go to the industry for their OJT – this is typically the last phase of the student's learning
- The OJT is an immersive experience of working in that industry, there is no project work or unlike an internship.



Setup Enterprises

- The university nurtures students and supports entrepreneurs to develop business ideas into social enterprise
- This includes a transformer manufacturing unit, an apparel unit, designing, prototyping and commercializing a 3D Printer, creating, cultivating and marketing a hybrid rice variety, a system integrator for Dassault Systemes, etc



Partnership with Industry to establish Applied & Action Learning Labs:

- GTET has 26 industry partners who have setup "Action Learning Labs" in the University campuses;
- Action Learning Labs provide students with a real-life simulation as in working in the actual industry and are equipped with the latest tools and equipment.

Model I: Partnership with Industry to establish Action Learning Labs

- GTET has formed partnerships with some of the largest companies in India to setup Action Learning Labs. These labs provide students access to the latest industry practices and technology.
- In a typical partnership the companies provide GTET with:
 - Tools and equipment;
 - Training of Trainers;
 - Curriculum support;
 - Access to placements/ internships;
 - Branding and marketing support.
- The support could be all the above or a combination of the items.









TATA MOTORS



Godrej & Boyce divisions: Appliances | Material handling | Interio | Process Equipment | Vending





































Renewable Energy Labs in partnership with Schneider Electric

© Centurion University | Gram Tarang

Joint skill development courses with Ashok Leyland



- 1. Commercial Vehicle Service Technician (ITI):
 An intensive 4-month residential course
 focusing on hands on skill Development of ITI
 recruits for deployment at dealer points
- 2. Commercial Vehicle Service Technician (10th pass candidates): One year course piloted in Ludhiana for training & placement of 10th pass youth as Service Technicians at dealer points
- **3. Auto Electrician:** 2 month residential course for developing ITI Electricians as Auto Electricians
- 4. Skill Upgradation of Dealer staff: In 2014, activities of the Zonal Training Center Kolkota were transferred to the Bhubaneswar center and it was used to provide training to dealer technicians across East & North East
- 5. Skill elective courses of University undergraduate, diploma & ITI students









Locations: CUTM Bhubaneswar | MSDC Ludhiana









Industry integration with Yamaha







Textiles: Spinning & Power Looms

Café Coffee Day Program















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Working with the differently abled



Welcome to possible









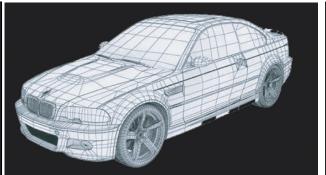


Flagship Program: Go to market in 100 days with Dassault

EXPERIENCE INDUSTRY IN 100 DAYS.

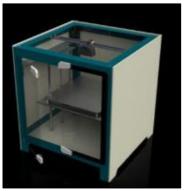
Design any product from pin to plane using Dassault 3D experience platform.

Stand a chance to validate, prototype, manufacture and launch your concept in the market.















3D Experience Platform

Digital Product Development in partnership with Dassault

Design & Development of Electric Vehicle



Design & Development of eRickshaw

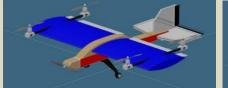


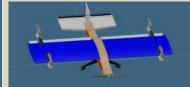


Drone for Surveillance & Agriculture

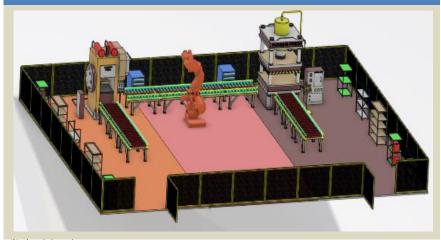




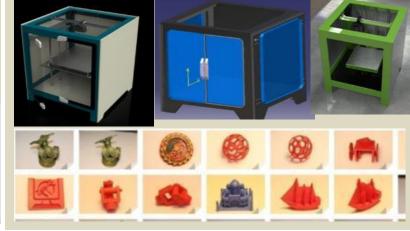




Pick & Place Robotic



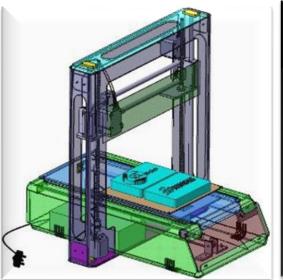
3D Printer Machine



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Product Design







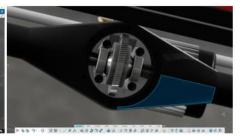












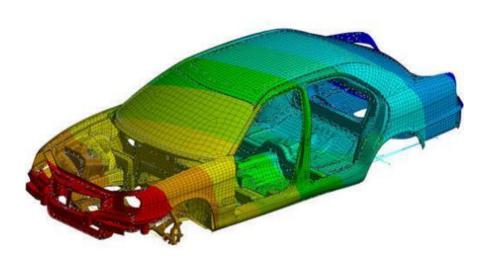
Scope

- Digital Product Design
- Market study of Problem Statement
- Tear Down and Bench Marking
- Concept Design
- Basic Hand calculation
- Product Costing & Target Cost
- Product Design System & Subsystem
- Product Integration
- System Engineering Mech EE ECE
- Design Review Virtual Reality
- Simultaneous Engineering
- Design Optimisation
- Prototyping

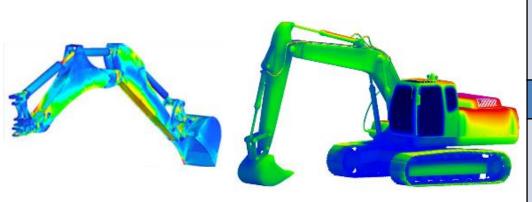
Technology/Software

- 3D EXPERIENCE Platform of DS
- CATIA (Sketcher, Part design, Drafting Assembly, Remastering, Welding design)
- CATIA Sheet metal Design
- CATIA Live Rendering
- CATIA ICEM Surface Design
- o CATIA BIW Design
- DYMOLA

Product Validation



Meshing of Monocoque chassis



Learning

- Overview of Finite Element Analysis
- Stage of Analysis
 - ✓ Pre-Processing 2D & 3D Meshing, Material Assignment, Load cases
 - ✓ Solving Solving on Abaqus, Simulia
 - ✓ Post-Processing Result evaluation, Stress & Strain graph
- Types of Analysis
 - ✓ Static load Analysis
 - ✓ Service Level Analysis
 - ✓ Dynamic Load Analysis- Apply constraint during simulation, Apply material properties, Observe behavior of the suspension of E-Bike.
- Overview on Computational Fluid Dynamics (CFD) Analysis- Numerical analysis, Data structure to analyze fluid flow behavior, Study of Mesh of CFD.

Technology/Software

- 3DEXPERIENCE Platform of Dassault Systemes
- SIMULIA Structural model, Structural Scenario, Mechanical scenario, structural validation,
 Durability validation, Fluid model, physics results.
- ABAQUS CAE

Static load analysis of Heavy vehicle

Model 2: Production & Action Learning

GTET's pedagogical philosophy required that it had incubated business units within the ambit of the University where they could provide its students and faculties with real exposure to businesses and livelihood opportunities. This is in addition to the regular academic research, papers and patents that are produced by the University.

GTET is managing & running CUTM's CIE or Center for Innovators & Entrepreneurs and has been registered with Startup Odisha as an Startup Incubator

Where possible GTET provides its students exposure to the real life projects through these companies, the table on the right provides a description of some of these companies.

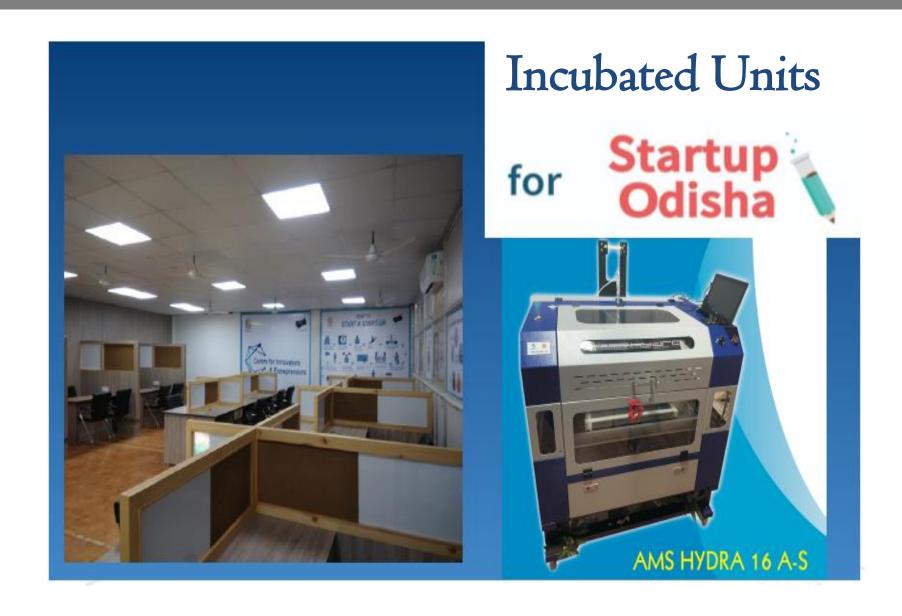
The exposure given to the students is across the spectrum of the industry and not only its core activity, such as:

- Real life business management challenges marketing, logistics, finance, accounts, data analysis, etc;
- Design challenges;
- Personality, teamwork and leadership development challenges.

GTET is an important Social Enterprise as it was established as an extension/outreach of the University.

| S.No. | Organisation | Activity |
|-------|------------------------------------|---|
| 1 | GT Employability Training Services | Training and workforce solution company working with Industry to supply, upgrade and maintain its workforce |
| 2 | GT Electric | Govt. approved and accredited transformer production unit which supplies to State government distribution companies |
| 3 | Apparel Production | Full fledged apparel manufacturing unit which has even delivered 3 lakh masks during COVID |
| 4 | Urban Micro Business Center | Urban outreach initiative to create entrepreneurs among urban poor, particularly women |
| 5 | GT Technology | Bringing Industry 4.0 solutions to the farmers and underprivileged |
| 6 | GT EV | Electric Vehicle Manufacturing |
| 8 | GT Manufacturing | Manufacturing activities – apparel, wood engineering, fabrication and high precision machining |

[GT: Gram Tarang, "Gram" meaning village and "Tarang" meaning wave]



Apparel Manufacturing Center of Excellence





TEAM GTET's Apparel & Textile Center of Excellence swung into action in response to the COVID 19 pandemic by producing Personal Protective Garments







Apparel Production center of excellence













Process Flow













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SUKHOI ENGINE DIVISION- KORAPUT HINDUSTAN AERONAUTICS LIMITED MIG COMPLEX

APPROVAL NO: HAL/KPT/SED/UQM/CER/2020/23

CERTIFICATE

- Having met the Basic Quality Requirements, HAL, Sukhoi Engine Division Koraput is pleased to accord approval
 to M/s "GRAM TARANG EMPLOYABILITY TRAINING SERVICES PYTLITD, KHURDA, BHUBANESWAR" as a SubContractor in the area of "Machining of small size components pertaining to Aero Engines".
- Validity of the approval is for a period Two Years till 10th OCTOBER 2022.
- 3. Approval Reference may be quoted in all correspondences with HAL.

First Issue of Certificate: 11.10.2020

Place: SUNABEDA.KORAPUT

Date: 11.10.2020

स्त्र भ्रानियाम्न स्त्र महास्थाक (गुणवाग) पुत्रम N. Srinivasan Dy. General Manager (O)-SEE HEAD OF OUALITY

-



PO. SUNABEDA - 783 002, DIST. KORAPUT, ORISSA, INDI.



BY FAX, EMAIL AND POST

HAL/ENG-KPT/U(S)/5-1/2012/588

DATE: 11.09.2012

M/s, GRAM TARANG EMPLOYABILITY TRAINING SERVICES PVT LTD CUTM – CIT CAMPUS RAMACHANDRAPUR, JATNI, BHUBANESWAR – 752 050 DIST, KHURDA, ODISHA

FAX: 0674 - 2352433

Dear Sir,

SUB: REGISTRATION AS A SUB-CONTRACTOR FOR MACHINING AERO-ENGINE COMPONENTS OF HAL, ENGINE DIVISION - KORAPUT.

- Reference is made to your Application for Registration as Sub-Contractor for machining components / parts of this Division.
- We are pleased to inform you that your firm has been registered as subcontractor against the following category:



GTET is a registered Component

supplier to HAL, RSB, SMS

हिंदुस्तान एरोनॉटिक्स लिमिटेड सखोई इंजन प्रभाग-कोरापुट

(रक्षा मंत्रालय के अधीन भारत सरकार का उपक्रम)







REF.: HAL-KPT/U(S)/USC/II-12-4/ 2012/ REGN/ 1643

DATE: 23/11/2012

Ms. Gram Tarang Employability Training Services Pvt. Ltd. CUTM-CTT Campus Ramachandrapur, Jatni, BHUBANESWAR -752 050 Dist-Khurda, ODISHA FAX: 0674-2352433

Dear Si

Sub: Registration as a subcontractor













Precision Machining Center

Mini Tool Room & Training Center at Bhubaneswar & Paralakhemundi







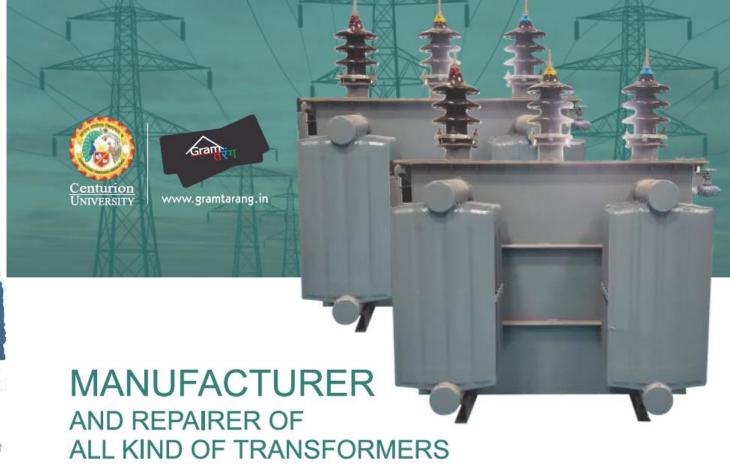




HAL & ISRO Production Jobs

© Centurion University | Gram Tarang





Gram Tarang, the social enterprise of Centurion University, Skill University of Odisha provides hands on vocational training to youth in live production environment. With a special focus on vocational training in energy sector, Gram Tarang has established a state of the art Transformer Manufacturing and Repair Workshop which undertakes orders from many discoms and private clients. Our processes and products have been certified as meeting and exceeding national and international quality standards including BIS Level-II approval for 16 / 25 / 63 / 100 / 250 and 500 KVA Distribution Transformers and ISO 9001:2015.

MANUFACTURING FACILITIES

We have the most modern and high-tech machines like power sheering machines, Hydraulic press brake, automatic HT and LT coil winding machines, Single/double head DPC machines, Oil Conditioning machine, Thermostat controlled heating chamber, spray booth and 27KL Lube storage tank.

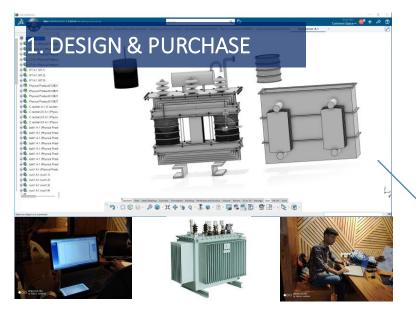
TESTING FACILITIES

We also have high precision testing equipment like 3-Phase M-G Set with DVDF Test Set, Transformer Oil Insulation Test Set, Turns Ratio Tester, Digital Insulation Resistance Tester, Motorised Insulation Tester, Power Analyser, Winding Resistance Meter, High precision micro OHM meter, Turns ratio tester and CT & PT for best monitoring of quality output of our transformers.

TRANSFORMER MANUFACTURING PROCESS



Transformer Manufacturing Process













© Centurion University | Gram Tarang















VEHICLES AT STOCK



OUR ASSEMBLY UNIT



ICAT APPROVAL



INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY

[A Division of NATRIP Implementation Society (NATIS), Govt. of India]

Date: 13th November 2018 Gert Brief + Table Drg Total AN- 2116 0 CERTIFICATE 2 8 7 17 Pgs FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES.

0

DESCRIPTION 0

C

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0

In order to establish compliance to the provisions of CMVR, 1989, applicable as on date, documental verification/ necessary testing was carried out, on the following base models, automitted by the whiche manufacture referred belowing base models.

Weight May GRAM TARANG EMPLOYABILITY TRAINING SERVICES PVT. LTD. Manufacturer Max Speed Manufacturer . GTCY-48VM850 GTCY-48VC850 No. 95. East Renmin Road, Wulin District. Changzhou, Jiangeu Province, CHINA

E-Cart 310 Three Wheeler Three Three

| Standards | Notification | Date | Effective From | Applicable CMVR |
|--|---------------|------------|----------------|---|
| E – Cart BoV / VIN / Brakes / Lamps/ Horn / Bulbs / Tyre/Lighting & light signaling devices // raction Battery and other safety components | GSR 709 (E) | 08.10.2014 | 08.10.2014 | ANNEXURE-IA ANNEXURE-IA ANNEXURE-IB |
| | S.O. 2590 (E) | 08.10.2014 | | |
| | S.O. 3090 (E) | 08.12.2014 | | |
| | GSR 784(E) | 12.11.2008 | | |

This Certificate is issued as per CMV Risk 125, to establish compliance with the Certificate is insued as per CMV Risk 125, to establish compliance with the Certificate before Risks, 1965, and shall not be construed as a conflictors of compliance to any rules other than those island in ANNEXURES, IAA Bit Compliance to these rules has been wrifted based on the use of specific compositers, 1 parts 2 assembles to childred without a given in the decides operational period explications of updated by CMV an entired at 1 Part a shows.

It is the vehicle manufacturer's responsibility to ensure fiftment of same components / parts / assemblies etc. before submassion of the vehicle for

COSA JAMES.

LOT issues "Ign-Reproval Confriction" (TAC) for inclined inergross/provable point assembles at to based on the documents produced endor proteins a National LoT in section (Table 1) and the confriction and their proteins as were deal to the lot of the confriction and their proteins as were deal from these to these very extensive produced and their proteins as were deal from the section to the very extensive proteins and their proteins as were deal from the section from the section that provides and their proteins as a section that the section of the TAC. These results in the section of the section of the their proteins and the section of the TAC. These results in the section of the section



Office Address: Centre-I: Plot No.-26, Sector-3, HSIIDC, IMT-Manesar, Gurugram-122050. Haryana (India) Centre-II: Plot No.-01, Sector-M-11, HSIIDC, IMT-Manesar, Gurugram-122050. Haryana (India) Phone: 0124-4586111, Fax: +91-124-2290005. E-mail: team@lcat.in, Website: www.icat.in (An ISO 9001, ISO 14001 and OHSAS 18001 certified, scope wise NABL accredited and BIS recognised Test House)

CUSTOMIZED PRODUCT FOR OMFED















e-Rickshaw OMFED order of 40 refrigerated carts delivered

53 Conndential





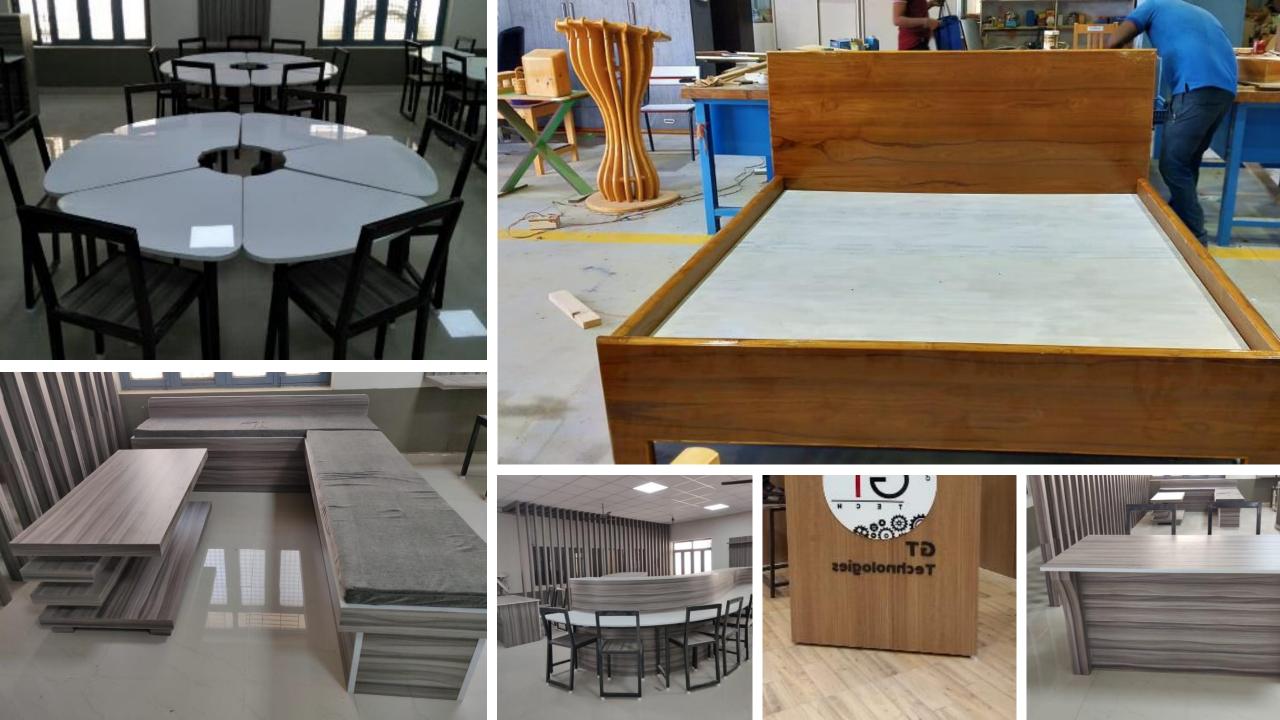


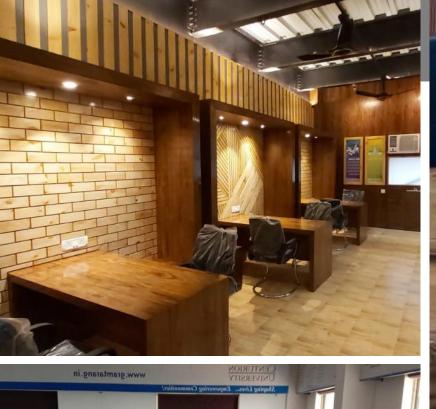




















Community Diagnostic Center

FORM-C
(See Rule-3(6) and Rule-4)
GOVERNMENT OF ODISHA,
HEALTH AND FAMILY WELFARE DEPARTMENT
CERTIFICATE OF REGISTRATION
Under Odisha Clinical Establishments (Control and Regulation) Act, 1990

This is to certify that Sri Sunil Kumar Jha, an applicant for registration of M/s- Community Diagnostic Centre, in the capacity of Director, At- Centurion University of Technology and Management, Ramachandrapur, PO- Jatni, Dist- Khordha- 752050 has fulfilled the criteria to run a Clinical Establishment with following services only.

| Category as per Schedule-A (with beds) | Diagnostic Services provided | Others Services |
|---|---|-----------------|
| Nil | Schedule-IV, Table- A/Category- E (Biochemical/Pathological investigations without high end equipment.) | Nil |

The establishment is registered under the provisions of the Act with

following particulars and terms and conditions.

REGISTRATION NUMBER : 38

: 38/2019/Khordha Date of issue: 02.08.2019

PERIOD OF VALIDITY

: From 02.08.2019 to 01.08.2024

INCHARGE (if a doctor then the, Dr. Debasis Sahoo, MD (Microbiology), Regn. No. 16311/2007(with qualification).

Signature of Supervising Authority
Collector & District Magistrate
Khordha

Terms and Conditions:

That the CE shall abide by the provisions of the Odisha Clinical Establishments
 (Control and Regulation) Act, 1990, rules made there under.

That for renewal, application shall be made to the authority not less than six months before its expiry.

 Any change in the constitution or management of the clinical establishment shall be intimated not later than fifteen days to the supervising authority along with the original certificate for issue of new one.

 Any change of staff of the Clinical establishment must be reported to the Supervising Authority within one month of such change.

 All certificates of the establishment including OSPCB, Fire Safety, Trade License, approved rate chart, name of staff on duty etc. must be displayed in a prominent place for viewing of public. REGD. POST
OFFICE OF THE CHIEF DISTRICT MEDICAL AND PUBLIC HEALTH OFFICER: KHORDHA
NO. 4088/Date 48/19

T

The Director,

M/s- Community Diagnostic Centre, At- Centurion University of Technology and Management, Ramachandrapur, PO- Jatni, Dist- Khordha.

Sub:

Grant of registration of M/s- Community Diagnostic Centre, At- Centurion University of Technology and Management, Ramachandrapur, PO- Jatni, Dist- Khordha under OCE (C&R) Act and Rules framed there under.

Sir,

I am directed to enclose herewith the original copy of registration certificate bearing Regn. No. 38/2019/Khordha in favour of M/s- Community Diagnostic Centre,

At- Centurion University of Technology and Management, Ramachandrapur, PO- Jatni,
Dist- Khordha granted under OCE (C&R) Act and Rules framed there under for the period from 02.08.2019 to 01.08.2024 for your information and necessary action.

Receipt of the Registration Certificate may be acknowledged.

Yours faithfully

Chief Dist. Medical & PHO, Khord

















World-class Healthcare labs

























© Centurion University | Gram Tarang







Concrete Pavers Unit

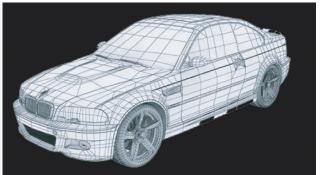


Flagship Program: Go to market in 100 days with Dassault

EXPERIENCE INDUSTRY IN 100 DAYS.

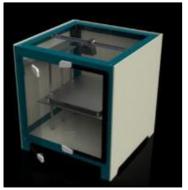
Design any product from pin to plane using Dassault 3D experience platform.

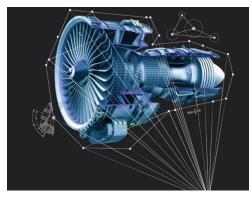
Stand a chance to validate, prototype, manufacture and launch your concept in the market.















3D Experience Platform

Key Industry Partners for Advanced Technologies



Advance Mechanical Services Bangalore



Dassault Systemes



AUS - Aarav Unmanned Systems



General Aeronautics



AMTZ- Vishakhapatnam



UNITY

Projects delivered in partnership with Dassault Systems

- Center of Excellence setup in ANU
 Vijayawada & Skill development
 program undertaken for 25,000
 students across 60 Engineering
 Colleges in AP in automotive,
 aerospace and ship building domains
- Skill development program in GTTC in Karnataka
- CPMS Centralised Project
 Management Systems in APSSDC
- Smart City Project in Jaipur
- Virtual Construction for L&T Mumbai



Product Development

Electric Vehicle – Small Commercial Vehicle

- Design of Electric
 Vehicle -Small
 Commercial Vehicle
- Validate the Product
- Use all multidisciplinary brands of Dassault Systemes
- Design for Semi & Full autonomous
- Digital Design of an assembly line of 5 vehicle per day
- Productionisation of vehicle

2 3D-Printing

- Design a Domestic 3D
 Printer Machine at low affordable cost to reach every home
- Import 3D Metal
 Printing machine –
 WarpSpee3D and commercialise the service
- Commercialise existing 5-Axis Machining Centre
- Build infrastructure for post-processing

Agriculture, Health & Life Science

- Crop Yield Improvement using machine learning
- Develop product for Precision agriculture (Protected cultivation)
- Design & develop health care devices
- Biotech Research, design & Development of drugs, Bio-sensors & Genetics Engineering
 - Animal & Plant

4 Aircraft & Drone

- Design & development of Two Seater – Fixed wing aircraft
- Partnership with
 General Aeronautics
 IISc Bangalore
- Augment Drone with hyperspectral /Multispectral camera to capture, analyse and Process for agri operation
- Design Drone for payload of 500Kg

Augmented & Virtual Reality

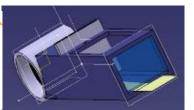
- VR enabled learning experiences using Hologram Technology for 30 trades of ITI
- VR kit for Digital Walk though of an Factory
 & more eLearning kit
- VR enabled learning kit for Time analysis of assembly shop
- Develop more industrial products on XR















Digital Product Development in partnership with Dassault

Design & Development of Electric Vehicle



Design & Development of eRickshaw



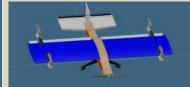


Drone for Surveillance & Agriculture









Pick & Place Robotic



Humanoid

100-09-0010-1013 | Crimin Rosentidy Design

11 O Type here to search

3D Printer Machine



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High End Solution Implementation

2 5 3 4 Solution **R&D** Centres Geovia **Biovia** Other Solutions Implementation High end Research & Geovia Product – Biovia Product – **Dassault Systemes** 3D Experience Smart Surpac, Whittle & Material studio, **Design Centers** solution City Solution MineSched Discovery studio, implementation in implementation Geovia Solution and Image studio, Skill Development **AEC for BIM solution** solution **Pipeline Pilot Centralized Project** Implementation Implementation Biovia based solution Management Systems **Enovia Customisation** Drone based end to end implementation for High end engineering & solution solution & centre of Research services using 3D Excellence experience Platform of Dassault Systemes.

SCV- Electric Vehicle



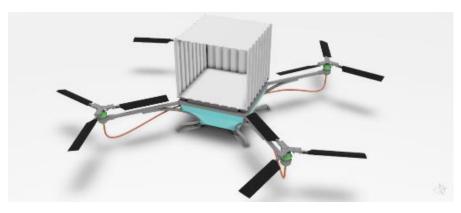


| Area | Product Plan | | |
|----------|---|--|--|
| Segment | Small Commercial Vehicle (<2.5 Ton) | | |
| Sector | Rural & Urban (Pick-up, VAN, Buses, Truck) | | |
| Type | Passenger and Loady body | | |
| Model | 1.5 T, 2T, 1T, 2.5T | | |
| Variants | Variants on BMS, Features on above models | | |

| Tech Specification of Current Vehicle Small Commercial Vehicle 'gMINT' | | | |
|--|--|--|--|
| Overall dimension | 3790 *1500*1845 mm | | |
| Wheel base | 2100 mm | | |
| Ground clearance | 200mm | | |
| Speed | 40-50 KMPH | | |
| Motor | BLDC Motor (72V, 7.5 KW) 2000-6000 rpm | | |
| Range | 80-100 km/charge | | |
| Battery Capacity | SLA /SMF lead acid battery (6 nos, 12V, 200Ah) | | |
| Kerb weight | 700 Kg | | |
| Gross vehicle weight | 1500 Kg | | |
| Turning radius | 4300 mm | | |
| Seating capacity | 7+1 | | |

2T Payload Drone





- Health Care
 - Drugs
 - Organ Transfer
- Agriculture
 - Irrigation, Fertigation and pesticide spraying
- Remote Sensing
 - Aerial Survey/Aerial Photogrammetry
 - LIDAR Survey
 - Weather Forecasting
 - Land use/Land cover prospective during disaster
 - Border security

| Cabin Type | Cargo Cabin |
|----------------|-------------|
| Length | 6 m |
| Width | 6 m |
| Height | 2 m |
| Engine type | Rotax 582UL |
| No.of Engines | 2 |
| Rotor diameter | 1.2 Meters |
| No.of Rotors | 6 |

3D Printer - Product Range

| | | Imaginator Lite | Imaginator Plus | Imaginator Ultra | Imaginator home |
|----|---------------------------|---------------------------------|----------------------------------|-----------------------------------|----------------------------------|
| SN | Parameters | Specification | Specification | Specification | Specification |
| 1 | Technology | Fused Deposition Modeling | Fused Deposition Modeling | Fused Deposition Modeling | Fused Deposition Modeling |
| 2 | Print Size | 160mm * 160mm * 160mm | 200mm * 200mm * 200mm | 300mm/250mm*300mm * 300mm | 210mm * 210mm * 210mm |
| 3 | Compatible Materials | PLA, PET-G etc. | PLA, ABS, HIPS, PET-G etc. | PLA, ABS, HIPS, PET-G, Nylon etc. | PLA, ABS, HIPS Etc |
| 4 | Material Colors Available | More than 30 colors | More than 30 colors | More than 30 colors | More than 30 colors |
| 5 | Print Resolution | 0.1 mm/100 Microns | 0.1 mm/100 Microns | 0.1 mm/100 Microns | 0.1 mm/100 Microns |
| 6 | Hot-end Type | Single Extruder | Single Extruder | Single/Dual Extruder | Single Extruder |
| 7 | Nozzle-Type | Brass | Brass | Brass | Brass |
| 8 | Nozzle Max. Temp. | 260°C | 260°C | 260°C | 260°C |
| 9 | Working Ambient Temp. | 15-40°C | 15-40°C | 15-40°C | 15-40°C |
| 10 | Connectivity | SD-Card/USB | SD-Card/USB | SD-Card/USB/Wi-Fi(Optional) | SD-Card/USB |
| 11 | Power | Input Voltage: 220 V,50Hz Input | Input Voltage: 220 V, 50Hz Input | Input Voltage : 220 V,50Hz Input | Input Voltage: 220 V, 50Hz Input |
| | | Current : 5-6 Amp. | Current : 5-6 Amp. | Current : 5-6 Amp. | Current: 5-6 Amp. |
| 13 | Max. Bed Temp. | | 100°C | 100°C | 100°C |









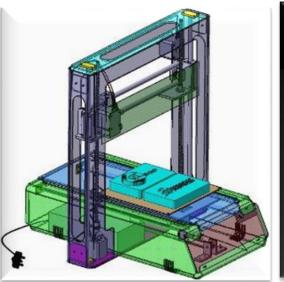


/I Confidential

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Product Design







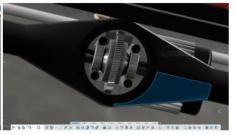












Scope

- Digital Product Design
- Market study of Problem Statement
- Tear Down and Bench Marking
- Concept Design
- Basic Hand calculation
- Product Costing & Target Cost
- Product Design System & Subsystem
- Product Integration
- System Engineering Mech EE ECE
- Design Review Virtual Reality
- Simultaneous Engineering
- Design Optimisation
- Prototyping

Technology/Software

- 3D EXPERIENCE Platform of DS
- CATIA (Sketcher, Part design, Drafting Assembly, Remastering, Welding design)
- CATIA Sheet metal Design
- CATIA Live Rendering
- CATIA ICEM Surface Design
- o CATIA BIW Design
- O DYMOLA

Product Design







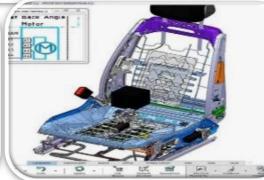












Scope

- Design and development of:-
- E-Bike
- Over Head Water Tank
- Assistant Robot
- Metal 3D Printer Machine by Supersonic concept
- Fire Fighter Drone
- Mini Satellite
- semi autonomous wheel chair
- PVC Printing

Services Offered

- Product Designer
- CAE Analyst
- Startup
- Consultancy
- Design Developer
- Project Manager
- Automotive Industries

Case Studies – Products Developed

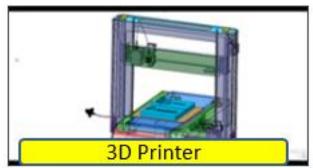






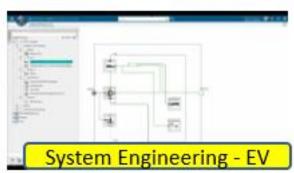






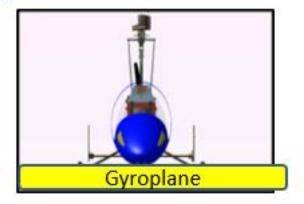




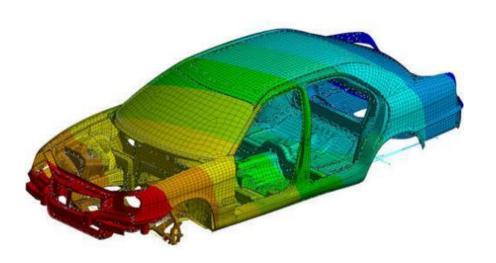




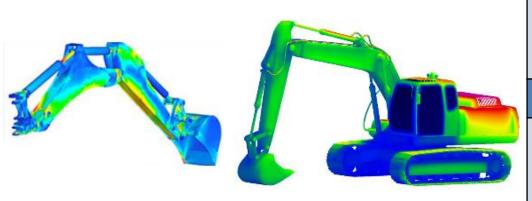




Product Validation



Meshing of Monocoque chassis



Learning

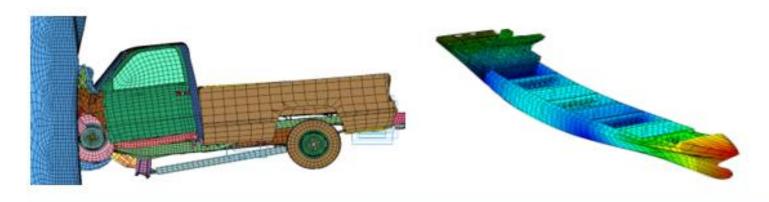
- Overview of Finite Element Analysis
- Stage of Analysis
 - ✓ Pre-Processing 2D & 3D Meshing, Material Assignment, Load cases
 - ✓ Solving Solving on Abaqus, Simulia
 - ✓ Post-Processing Result evaluation, Stress & Strain graph
- Types of Analysis
 - ✓ Static load Analysis
 - ✓ Service Level Analysis
 - ✓ Dynamic Load Analysis- Apply constraint during simulation, Apply material properties, Observe behavior of the suspension of E-Bike.
- Overview on Computational Fluid Dynamics (CFD) Analysis- Numerical analysis, Data structure to analyze fluid flow behavior, Study of Mesh of CFD.

Technology/Software

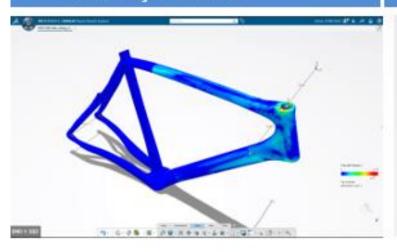
- 3DEXPERIENCE Platform of Dassault Systemes
- SIMULIA Structural model, Structural Scenario, Mechanical scenario, structural validation, Durability validation, Fluid model, physics results.
- **ABAQUS CAE**

Static load analysis of Heavy vehicle

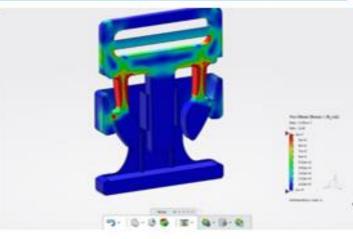
Product Validation



Crash analysis of vehicle



Structural analysis of ship



Structural analysis of Bi-cycle

Structural analysis of Buckle

Scope

- Durability Analyst of the product.
- SLA analysis of Vehicle.
- NVH analysis of product.
- Crash Analysis of product.
- Static Load Analysis.
- Linear and Non-linear Analysis
- Advance Meshing of the product.
- > Fatigue Life Analysis.
- CFD and Thermal Analysis.

Services Offered

- CAE Analyst
- Durability Analyst
- CAE-Analyst –Crash
- Ready to work with OEM- Automotive, Aero, Heavy Equipment, Marine & Ship Building Process Industry, Heavy Machinery and their Tier-1, Tier-2 and suppliers

Civil Solution



Learning

- ✓ Building Information Model
 - √ Foundation
 - ✓ Building Structure
 - ✓ Roof Framing
- ✓ Interior Designing
- ✓ Plumbing & Piping
- ✓ Simulation & Analysis
 - ✓ Live Load
- √ Seismic Load

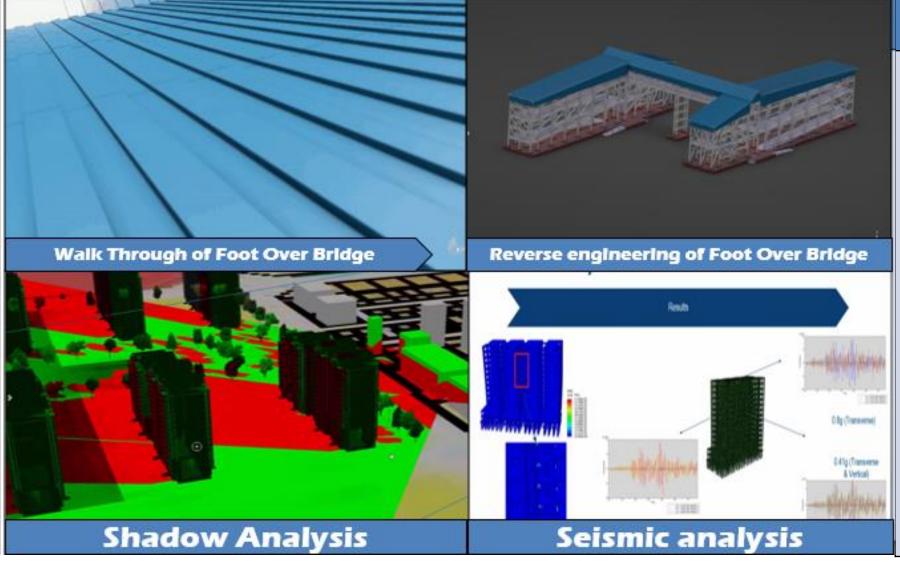
✓ Dead

✓ Wind load

Technology/Software

- ✓ 3DEXPERIENCE Platform of Dassault Systemes
- ✓ Catia, Enovia, Simulia, 3D Excite
- ✓ Part Design, Assembly Design, Structural scenario, Structural Simulation.
- ✓ Building Structure Design
- Civil assembly design
- ✓ Architectural, Engineering & Construction
- Building and Civil Assembly

Civil Solution



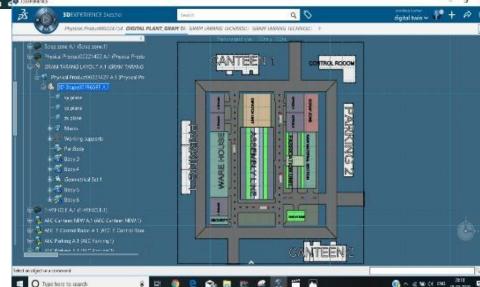
Scope

- ✓ BIM Modelling
- ✓ Digital Twin of Smart city
- ✓ Structure Simulation
- ✓ Surface Modelling
- ✓ Terrain Preparation
- ✓ GIS Mapping
- ✓ LIDAR Technology and Survey

Digital Twin / 3D Digital FACTORY

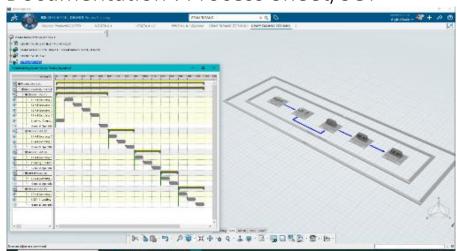
- Layout & Space validation
- Material & Resource Planning
- Modelling of facilities and resources.
- 3D Walkthrough
- Clash report generation between civil structure & planned resources
- Described and labelled AVI including all shops and area visualization.
- Providing recommendations & solutions for improvement

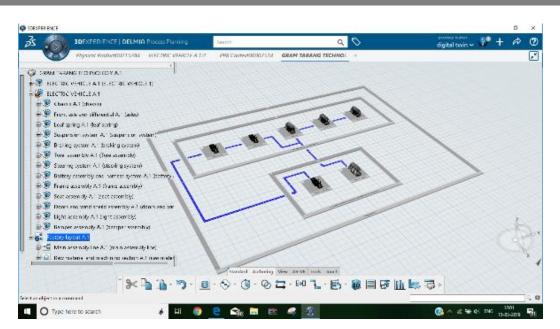


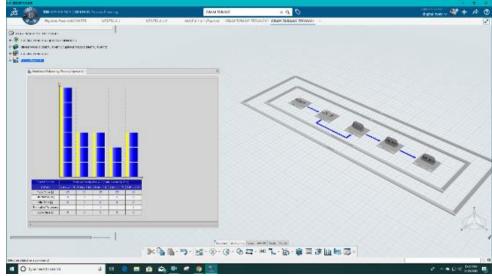


Process Planning

- Process Planning
- Line Balancing, Load Balancing
- Variant Management & Change management
- MOST: Maynard Operation Sequence
 Technique
- Worker Ergo-index & Skill Matrix
- Shop Documentation : Process Sheet/SOP







Process Simulation

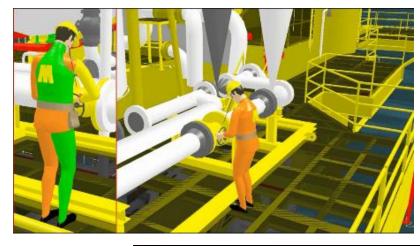
- Product and resource validation (Clash, collision and interference analysis)
- Process sequence verification
- Assembly process simulation
- Digital Mock-up of the product
- Operator safety and ergonomics check for operators by using RULA analysis
- Validations with tools
- Proving recommendations & solutions

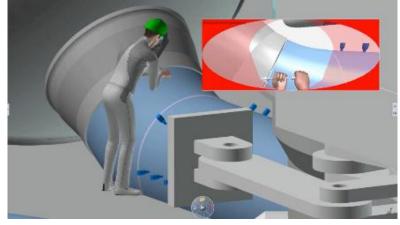


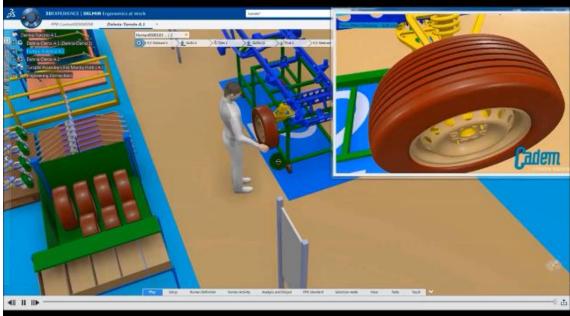


Human Simulation

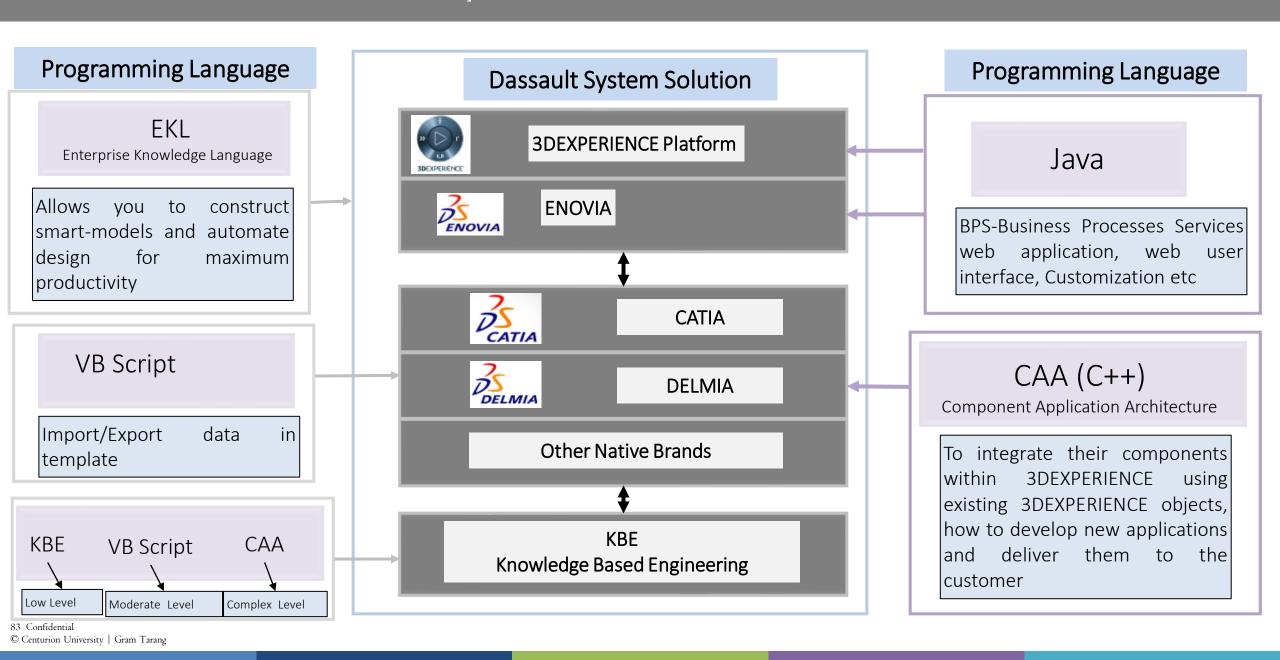
- Clash detection
- Analyse Lifting/Lowering /Pushing/Pulling/Carrying
- Lifting analysis by using NIOSH technique
- RULA, update colouring during simulation
- Balance computation, Biomechanics
- Compute Energy expenditure for a series of activities Using Garg's equation







Customisation Area of Dassault Systemes Solution



GEOVIA Solution

EXPLORATION

EVALUATION

PLANNING

ENGINEERING

MINE PRODUCTION MANAGEMENT AND RECONCILIATION

SERVICES

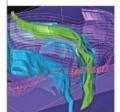
GEOLOGY AND MINE PLANNING



S GEOVIA | Surpac



Surpac is the world's most popular geology and mine planning software. It delivers efficiency and accuracy through ease-ofuse, powerful 3D graphics and workflow automation.



S GEOVIA I GEMS



GEMS provided and mine geology and mine planning capal **CA** t support crossfunctional teams involved in exploration, modeling, mine design, long-term planning and production scheduling.

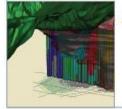


S GEOVIA | Minex



Minex provides the best geology and mine planning tools for coal and other stratified deposits, ensuring resources are evaluated accurately and mined efficiently.

BLOCK CAVING



OS GEOVIA I PCBC



PCBC is used by virt..." major mining company involved CA ving, who rely on its comprehensive runctionality to assist with feasibility studies, design and production management.

MINE PRODUCTION MANAGEMENT AND RECONCILIATION

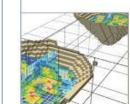


S GEOVIA | Insite



s of production InSite collat activities ag CA plan. Advanced reconciliation tools allow mining operations to address and understand the cause of variance.

STRATEGIC MINE PLANNING







Whittle is the world's most trusted strategic mine planning software used to determine and optimise the economics of open pit mining projects.

SECURE REMOTE COLLABORATION



S GEOVIA | HUB



Hub provides Ilaboration that organize Retired enables the reliable sharing of exploration, planning, and production data over low-bandwidth connections.

SCHEDULING









MineSched – The most innovative scheduling software experience for mining puts you back in the driver's seat to maximize productivity and profits.

SERVICES







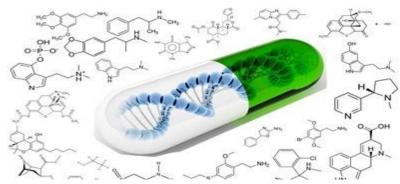
When you don't have the time or in-house resources available, GEOVIA's global Services team can provide geology, engineering, and operations assistance.

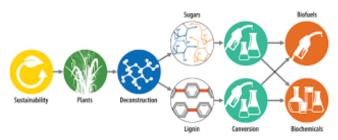
Biovia Solution Implementation and services

BIOVIA Solutions:

- Molecular Modeling of Drugs and Validation
- Gene manipulation and designing of new modified genes
- Pharmacophore modeling and validation
- Designing of new fuel
- Designing of bio-metals and validation
- Machin learning for crop yield identification







GLBRC Research. With sostainability as an overarching theme, GLBRC scientists and engineers are using each plant cell compenent, chemical incorrections, and building block to help replace fissil fuels and other petroleum products while adding value to the biofuels production chair. Jimage by Matthew Wonleveki, GLBRC[

Augmented & Virtual Reality



CAD Data

Export CAD data

Model Preparation.



Import Model

Post-Processing of model

Texturing



Light & Shadow

Light analysis and Preparation

Color Correction of Scene



Mechanics & Interactivity

•Behavior Programming

•Interaction Programming



Testing & Building

Unit Testing

•AR-VR Platform Building



Content Creation and Services to Industries: Automotive, Medical, Manufacturing Safety Precautions, Product Marketing





MS Swaminathan School of Agriculture Sciences

| - VERMI COMPOST PRODUCTION UNIT | - ORGANIC RESEARCH FARM |
|-----------------------------------|--|
| - BIO FERTILIZER UNIT | - MUSHROOM CULTIVATION |
| - PLANT TISSUE CULTURE & RESEARCH | - ANUMAL HUSBANDRY, LIVESTOCK & MINI DAIRY |
| HYDROPONICS LABORATORY | - WATERSHED DEVELOPMENT |
| - SEED PROCESSING UNIT | - SUPER CRITICAL CO2 FLUID EXTRACTION |









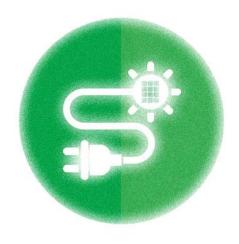
WITH THE FARMING COMMUNITY

An Organic Research Farm was set up to conduct research with organic nutrients & pesticides produced by the composting unit – the learnings of which can be cascaded to the field.

Plant Biotechnology laboratory with two wings - Plant tissue culture and Plant Molecular Biology that includes Hi-tech Poly-house, Green-shelters and Polytheneshelters was set up in 2016-2017 with state-of-the-art facilities and involved in various in vitro and ex vitro activities.



Project I Summary: Skilling I Lakh Farmers



Project Objective:

This project aims to develop a scalable, sustainable training-cumproduction model that creates social infrastructure and leverages technology as well as market intelligence to equip farmers with locally relevant knowledge & skills resulting in enhancement of their income.

Project Goal: 100,000 farmers to be trained in 12 months

Perspective Shift: Each farm as an enterprise and farmer as an entrepreneur Contributing to 'Doubling farmer Income (DFI) Goal' by 2022 of GoI

Project Strategy

• The project envisions creation of Agri-Business Development Service Network (ABDSN) for training & certification of 1 lakh marginal farmers. The approach is to treat farms as enterprises and create a cadre of Krishi Udyog Sahayaks (Agriculture Development Service Providers) at grass root level across 200 blocks of Odisha.

- Area Mapping,
 Course Identification
 & content
- Identification & Training of KUSs

Centurion - Gram Tarang

Krishi Udyog Sahayak

- Sets up & manager Training cum
 Production center
- Bridge course & Enterprise skills to Farmers

- Undergoes bridge course & RPL
- Takes support of KUS to start or expand own enterprise

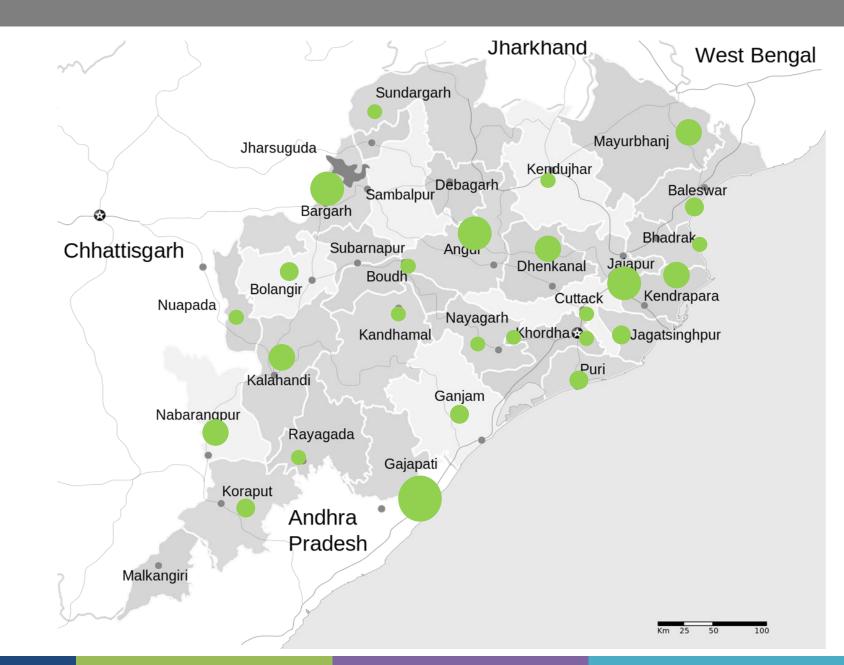
Small & Marginal Farmer

Last Mile Distribution Company

 Create producer groups & work closely with KUSs to provide market linkage & assured income to farmers

Job Roles & Districts

| Sl.No | Job Role |
|-------|-----------------------------|
| 1 | Mushroom Grower |
| 2 | Solanaceous Crop Cultivator |
| 3 | Organic grower |
| 4 | Vermicompost Producer |
| 5 | Floriculturist |
| 6 | Tuber Crop Cultivator |
| 7 | Quality Seed Grower |
| 8 | Paddy Farmer |
| 9 | Citrus Fruit Grower |
| 10 | Pulses Cultivator |
| 11 | Maize Cultivator |
| 12 | Mango grower |
| 13 | Cotton Cultivator |
| 14 | Chillies Cultivator |
| 15 | Small poultry farmer |
| 16 | Dairy Farmer/ Entrepreneur |
| | Grand Total |



Farmer Experience Zone









Trainees in action





RPL Practical Training Sessions









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Candidate Name: Krishna Bhoi

Job Role : Mushroom Grower

Location : Padampur, Baragarh

NGO Partner: Inclusive Action

KUS Name : Sushila Bhoi

Most of her village suffered from distressed unskilled migration to Hyderabad to work in brick kilns and were getting paid INR 150 for making 1,000 bricks. After the bridge course, during the non-cultivation period they are growing mushrooms and earning a decent living.

She is also happy that now she can pay the tuition fees of her children of her own

Supported by KUS Sushila Bhoi.



- Candidate Name : Netramani Mishra
- Job Role : Mushroom Grower
- Location : Astaranga,Puri

- Netramani Mishra (60 yrs) has 1 acre of land, after the training she prepared around 10 15 beds for mushroom, as taught to her by the KUS, Damayanti Rout.
- She invested Rs 80/- per kg of mushroom and she cultivated around 15 kgs of mushroom

RWI Hansapada, Puri: Floriculture

- Mr. Manoranjan Bhoi of Talapatak (Hansapada) Village in Chanarapada G.P of Nimapada Block in Puri district has created an example for cultivation of marigold flower after participating of 10 days RPL Training organised by RWI Hansapada.
- Leased 0.24 dcml land @ Rs. 3000/-per annum and cultivated marigold.
- Irrigated land from nearby water body by a motor pump set on hire Rs.100/-
- Prepared the land in 1st week of January 2019 and purchased 4,000 marigold plants from a nursery at Bhubaneswar @ Rs.1/- per plant (linked by KUS).
- Planted line by line according to the training and took care of the field properly assisted by his wife Kandhei and father Gunanidhi
- Flowers started blooming within 45 days of plantation
- Initially flower sold @Rs.0.25 per piece which went down to INR 0.2 per piece
- Due to low price the family made garland strings by and sold at local market @Rs.10/- per garland.
- Kandhei supported her husband and borrowed Rs.15000/- from her SHG.
- Investments:
 - INR 700 for hiring of tractor, INR 3,000 for manure, fertilizer, pesticide etc.
 - INR 4,000 for purchase of plants, INR 2,000 for irrigation,
 - INR 1,700 for boundary fencing, INR 3000 for land lease payment INR
 - INR 600 for other expenses.
- INR 25,000/- collected from sale of products by the end of March. Another









Candidate Name: Hemanta Sahu

Job Role : Solanaceous vegetables

Location : Singh Jharan, Bhawanipatna

NGO Partner : Antodaya NGO

Hemanta, 35 years, had monthly income of rupees 3,000 in a remote part of Kalahandi District. A class X dropout, instead of migration he opted for cultivation of leguminous crop, cabbage, cauliflower over about 1 acres of land apart from the paddy crop.

After training by **KUS**, he extended his vegetable cultivation land and grown okra, brinjal, pumpkin, amaranthus and other leafy vegetables. He has a deep bore well which got sanctioned during 2016-17, got functional in 2019 involving 8 farmers in their village. Now his monthly income from vegetable cultivation has increased to INR 8-10,000 per month



 Manorama Mallick, a Post Graduate student as well as the Sarpanch of Gopalpur, Gram Panchayat, Balasore.

 A charismatic leader and inspiring everyone to do something of their own. She also grows mushrooms after she got her training from Atal-RPL project, a project from NSDC, in partnership with Gram Tarang Employability and Training Services.

• She cultivates around 20 kg of mushroom from 10 beds and has begun supplying her produce in Balasore town. She is a good farmer, a better leader and the best inspiration for the people around her. She gathers people and motivates them to join various learning projects, where they can learn and know the vast knowledge of agriculture. She is trying very hard to make everyone's life better.

Seba Jagat, Kalahandi: Pulses & Tuber Cultivator

Candidate Name: Basanti Gahin

Job Role : Pulses Cultivator

Location : Kansil, Karlamunda, Kalahandi

NGO Partner : Seba Jagat





• By cultivating 4 quintals of toor dal and 3 quintals of moong. She was a trainee of RPL project; there she learned about pulse cultivation. The methods were new and exciting for her. Then she applied them in her farming, and got success. She is selling them for Rs60/-per kg. She is getting a lot more than she was getting previously when she was following the old methods. She now knows how to store the pulses without getting any insects into them. She is a member of a SHG formed with 200 female farmers, where they are buying moong and toor dal from other farmers at a rate of Rs50/- per kg and selling them in the local market at the rate of Rs60/- by keeping 20% as profit margin

Case study: Hamara Bachpan Trust (HBT), Astaranga, Puri: Mushroom Grower

- 50 member All-women batch trained for mushroom grower and floriculturist job roles.
- KUS Damayanti Rout helped trainees in making the beds for the mushroom and was present for handholding
- Average 10 beds per trainee yielding 1.5 kg per bed in 10-12 days
- Post harvest, trainees were given market linkages and distribution support
- Sale price INR 180-200 per kg on an input cost of INR 80 per bed or approx. INR 55 per kg

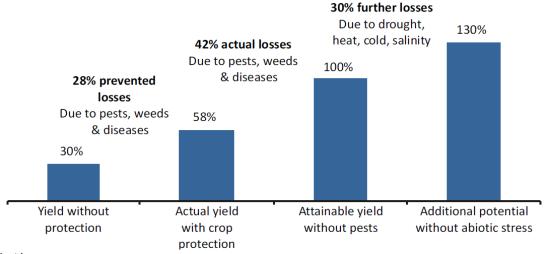




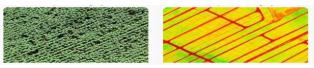


Project 2: Doubling farmer Income with Krishi Prahlad Initiative

- Government of India has taken up the ambitious target of Doubling Farmer Incomes (DFI) by 2022
- The focus is shifting from food production to treating farm as enterprise and farmer as entrepreneur
- Climate change has rendered ineffective and obsolete previously established manual processes and schedules for control of crop damage due to pests, diseases and drought.
- Urgent need for flexible pest damage detection and control solutions that are climate-resilient and adaptive to changing need



Crop field Multi-spectral Image



Mapping and prescription





Precision Spray

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Problem Definition

- There is need to use better farm data management for improving the yield of farmers
- JPAL experiments (which have won them the recent noble prize in economics) has shown that 25% increase in yield is possible using precision agriculture advice and practices
- Such solutions are attempted at many places (ITC, IARI, New Delhi to name a few)
- This, coupled with an aggregation platform (Kalgudi or IFFCO KISAN app) can provide instant soil and crop health monitoring to farmers
- Couple this with Farmer Producer Organisations and Krishi Udyog Sahayaks in the field, this can be a potent business model with huge social impact.

Proposed Solution (codenamed as Krishi Prahlad)

- Farmer advisory service based on climate resilient agriculture practices using drones, Al and immersive extension:
 - Drone based Hyperspectral imagery to assess health of crop, soil & water
 - Artificial intelligence based Decision Making System (ADMS) to assess demand for water, nutrients and pesticide based on climatic conditions. This will determine fertigation control.
 - On demand, autonomous delivery as per ADMS requirements using Drone
 - VR/AR based immersive learning content
 - All such initiatives to be delivered through farmer advisory network called Krushi Udyog Sahayaks (KUS). This will be delivered on an aggregation platform with IVR support too.
 - The whole solution to be branded as Krishi Prahlad initiative.
- Apart from using the ML based yield improvement model based advisory, Centurion University, with support from Dassault foundation, has developed 3d content based on VR/AR.
- The content is displayed in an experience on wheels van which moves from village to village
- The farmer is introduced to new protected agriculture and other methods through immersive learning content

Envisaged Work-Flow

Knowledge Transfer to farmers with easy to use interfaces

Extension to Other crops Data Generation in controlled environment with Hyperspectral camera for the identified Crop

NANAJI DESHMUKH PLANT PHENOMICS CENTRE

A

Coupling ADMS with delivery using drones: Testing & Validation

Cloud based
Database
Management
with
Analytics

CNN training & Algorithm
Development for Early disease
detection and decision making
(ADMS Development)

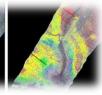
Field data generations with Drone and model update.

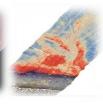
ADMS Release for field operation

Algorithm Validation with available data

Soil analysis*: Hyperspectral







*Source: Journal of Geological Resource and Engineering 6 (2018) 143-150 doi:10.17265/2328-2193/2018.04.002

Water analysis*: Hyperspectral



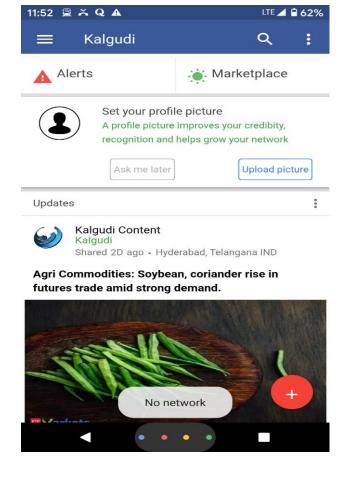


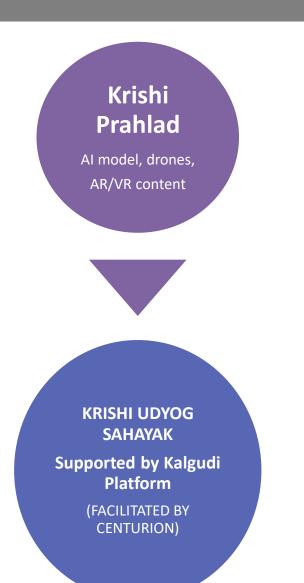


Farmers Experience Zone on wheels

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Our operating model in the field







Work Done so far

- A Proof-of-Concept sprayer-UAV prototype has been successfully field tested in actual palm-crop orchards in partnership with Central Plantation Crop Research Institute (CPCRI)
- An app based farmer advisory service to the farmers is going to be developed by Centurion University using Dassault systemes Pipeline pilot tool
- The app will use ML algorithm for predicting yield given the major and minor nutrient content of the soils and the farmers inputs
- The app is being developed for field crops as well as protected agriculture crops
- While fertigation will be controlled for field crops, fertigation based on humidity and temperature along with soil nutrients will be controlled for crop under protected agriculture crops.

తెల్లదోమకు 'డ్రోన్'తో చెక్

కడియం (రాజమహేంద్రవరం రూరల్): స ర్పిలాకార తెల్లదోమ నివారణకు డ్రోన్ టెక్సాలజీ వినియోగంపె మండలంలోని నర్సరీ రెతులకు గురువారం అవగాహన కర్పించారు. కడియపు లంక గటి వెంకటరమణ నర్చరీ వద్ద ఏర్పాటు చేసిన ఈ కార్యక్రమంలో సుమారు 40 అడుగు లకు పైగా ఉన్న కొబ్బరిచెట్లపై పిచికారీ చేసుకు నేందుకు డ్రోన్ ఏ విధంగా ఉపయోగపడు తుందో వివరించారు. ఈ సందర్భంగా ఏర్పాటు చేసిన కార్యక్రమంలో సీపీసీఆర్ఐ డైరెక్టర్ డాక్టర్ చౌడప్ప ముఖ్య అతిథిగా పాల్గొని మాట్రాడారు. తెలదోమ నివారణకు అందుబాటులో ఉన్న అన్ని విధానాలను అమలు చేయాల్సిన అవసర ముందన్నారు. అందులో భాగంగా డ్రోన్ టెక్సా లజీ ఎంతవరకూ ఉపయోగపడుతుందన్న దానిపై ప్రదర్శన ఏర్పాటు చేసినట్లు చెప్పారు. సాధారణంగా ఒక ఎకరాకు స్థాపుతం వాడు తున్న స్పేయరతో 200-250 లీటర నీటిని పిచికారీ చేయాల్సి ఉంటుందన్నారు. డ్రోన్లో వినియోగించిన అధునాతన నాజిల్స్ ద్వారా కేవ లం ఆరు లీటర్ల ద్రావణం సరిపోతుందన్నారు. నానో పార్షికల్స్ రూపంలో దావణం చల్లబడు తుందన్నారు. తెల్లదోమ నివారణకు వినియో గించే వేపనూనె తదితర వాటిని ఎత్తైన మొక్క లపె చలేందుకు డ్రోన్ ఎంత వరకు ఉపయోగప డుతుందన్న దానిపై ఈ కార్యక్రమం ఏర్పాటు



- అధునాతన టెక్సాలజీపే అవగాహన
- హాజరెన సీపీసీఆర్ఐ డైరెక్టర్ డాక్టర్ చౌడప్ప
- ఆసక్తిగా తిలకించిన నర్నరీ రైతులు

సాధ్యాసాధ్యాలను పరిశీలిస్తామన్నారు. అనం తరం డ్రోన్ ఏ విధంగా పనిచేస్తుందో బెంగళూ రుకు చెందిన జనరల్ ఏరోనాటిక్స్ ఇంజనీర్ అభి ర్చంగా రెతులు, అధికా ఆయన సమాధానాలిచ్చార స్థానిక నర్సరీ రైతులు ఏడీహెచ్ కె.చిటిబాబు



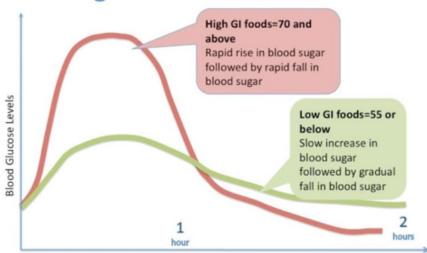
శాస్త్రవేత్తలకు దిశానిరైకం చేశారు. ఎస్ఆర్స్ ప్రాంగణంలో డ్రోన్లతో పిచికారీ



ශ්ති **බබ්**యాగం කළ ජවී් අභාවේ මෙවාන් මහත් මහත් මෙන්

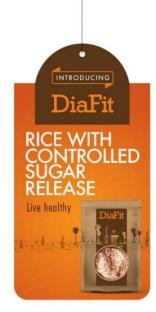
Lab to Land to Market

High GI vs Low GI Foods



Time/Hours











The Gram Tarang portfolio continuum has helped build confidence among industry & the "Blue Collar" target group



2006



Long term Skill Development

- Deliver long term training resulting in Vocational
- Education Qualifications
- Paid courses with multiple entries and exits
- Operate and manage 6 ITIs (2 ranked top 10 in India) & 4 Polytechnics
- 2,000 Trainees per annum



2010



Short term Skill Development

- Short term residential training programs
- Mainly government sponsored programs
- Also implementing a large scale (1 lakh+ farmer) project in Odisha
- 35 Centers, 20,000 Trainees per annum





2015



Work Integrated Programs & Staffing Solutions

- Qualifications for migrant workers @ hostels
- Industry Partnerships
- Provision of NSQF linked training in over 640 government schools in 10 states
- 3,000+ manpower deployed with over 40 sites





2020



Further education & EdTech for blue collar

- 10,000 headcount with 1,000 active learners
- Sectors range from auto component manufacturing units to eCommerce (Big Basket, Zomato, Flipkart, Vogo)





Shaping blue collar futures...



Lernern is the EdTech arm of *Gram Tarang Technical Vocational Education & Training Pvt. Ltd* (GTVET), a high-performance blue-collar staffing services, skills training & apprenticeships provider working towards its mission of making technology enabled learning for all. The company is especially focused on those at the bottom of the pyramid and primed to touch 1 million users by 2025. It has been incubated under *Startup Odisha* at Centurion University, a leading Skills University.

Tracing its roots to the premium skill development company in India, the founders of *Lernern* have extensive expertise in grassroot level community mobilization, delivery of technical vocational education & training through short, medium & long term courses, setting up & managing a skills university, large scale Pan India skill assessments and operating an accredited *Center of Excellence*.

Having trained over 350,000 & meaningfully engaged over 200,000 blue-collar workers for placements in a wide range of industries or into self-employment, the founders have received world-wide acclaim by UN agencies, British Council, ADB, World Bank, NITI Aayog, NSDC, MSDE et al as a model for emerging economies.

The team has pioneered a 'Work integrated Skill Training & Apprenticeship' program which enables further education for blue collar workers in India through the dual model by integrating academia & vocational education with industry. Blue collar workers enroll for various courses on the technology platform accredited by Directorate General of Training (DGT) & Skills Universities which enable accumulation of credits towards higher qualifications while working.

Several pilots have been on the ground since 2015 in industrial clusters of Bangalore, Coimbatore, Pune and NCR with leading industry partners like Café Coffee Day, Haier, Carrier Media etc. The employer benefits through better retention, increased labour productivity and many have willingly co-sponsored the training fee. The Covid pandemic gave *Lernern* the opportunity to develop a technology platform which enabled a quicker scale up of the programs. Presently Lernern works with 200+ industry partners and has 15,000 active users enrolled working towards an overall vision of 1 million active users by 2027.

Taking our youth from where they are to where they aspire to be....



Sonalisa, Jajpur district, Batch 37, 2015 Manages the airport café at Chandigarh, enrolled for work integrated BBA



Maushumee Hota, Ganjam district, Batch 23, 2014;
Manages a CCD Lounge in Chennai, in 2nd year of work integrated BBA



Satya Ranjan Behera, ITI MMV (2013) Quality in charge at Oerlikon Graziano, Gujarat; Interested in pursuing Diploma

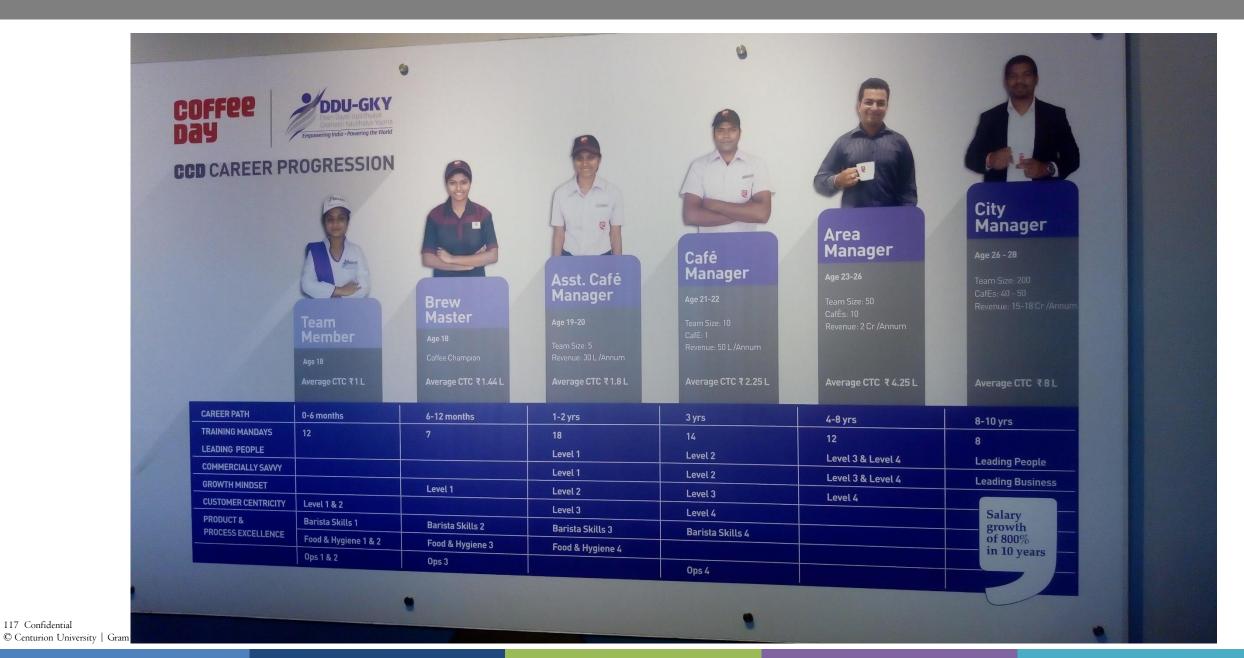


Saddam Ansari, ITI Fitter (2011) Sr Technician, Bhilai Steel Plant Chhattisgarh; Interested in pursuing Diploma

Common thread binding Sonalisia, Maushumee, Satya & Ansari: They were skilled at Gram Tarang placed in the industry and have enrolled or are aspiring for higher education programs with Centurion University

Linking skilling, education with career progression

II7 Confidential



Program Flow



0-3 Months



TRAINEE

- for 3 months @ Bhubaneswar
- free of cost except for registration fee

Months





Months

Permanent **Employment**





Advanced Diploma



Work Integrated **BBA**

+36 Months

- 10th / 12th Pass Graduates
- Foundation Course
- Fully Residential, of INR 300

INTERN

- 9 Month On The Job **Training**
- Stipend 7,500 per month + acco
- Job Location any CCD outlet in India
- Completion of BM certification
- University Certification on completion of OJT

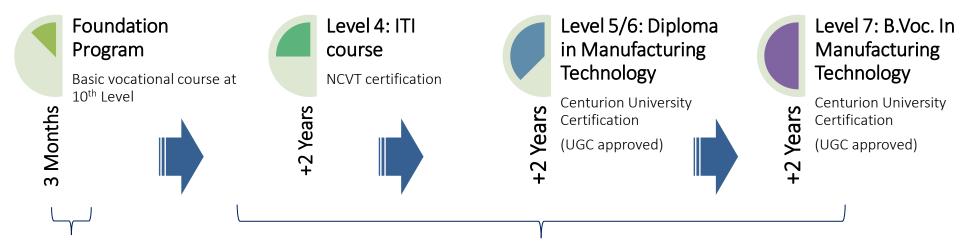
TEAM MEMBER

- Confirmed as permanent employee and moved onto regular time bound career path of CCD
- Enrolled into 2nd year of Work Integrated BBA

OPERATIONS TRAINEE

- Appears for CCD exam for OT
- Continues education (minimum 5 hours per week) through contact classes, assignments & projects
- Appears for semester examinations of CCD in work location
- Awarded a "Work Integrated BBA in Retail & Hospitality" from University

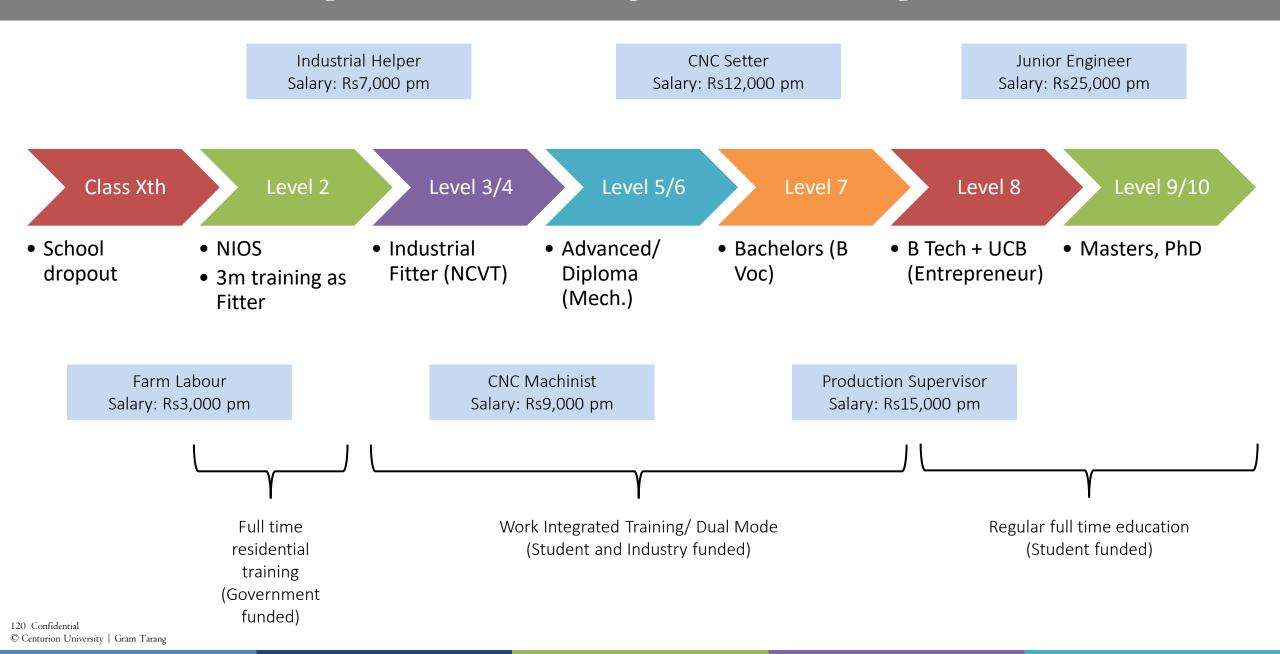
Career pathing through work integrated learning



- 10th Pass youth
 mobilized from rural
 areas Foundation
 Course as per
 curriculum followed
 by on the job training
 opportunity with
 industry partner
- Alternate pathway for 10th Fail through NIOS

- **NEEM: Work Integrated Learning** through a combination of:
 - Contact Classes @ training room in factory or near the hostel
 - e-learning/self learning through content developed by Gram Tarang
 - Practical- job work in workshop or nearby ITI identified by Gram Tarang
 - Assignments, Presentations
 - On the job training & job appraisal
- Assessments & Certification conducted by
 - DGT for ITI level (Level 3 & Level 4)
 - Centurion University for Diploma/Advanced Diploma & B.Voc. as per UGC guidelines under DDU Kaushal Kendra scheme

Can a Xth class dropout become an Engineer or an entrepreneur?



Solution: Dual model of education for upskilling & further education of Blue Collared workforce



Blue collar worker

Employer



Career Progression is limited due to lack of skills & qualifications

Technical Education require investment & loss of pay



Affordable, Accessible & Accredited
Technical qualifications through a blended
model enabled its technology platform

Academia – Industry divide results in low employability of freshers.

Existing skilling schemes are unsustainable & industry is yet to get actively involved at scale



Grey / white collar worker

TVET Institutions



Our **product portfolio** spans the entire spectrum, from **short term trainings to industry integrated models**



Further Education >> and Skilling



- Short term skill courses domain and soft skills
- NSQF aligned courses provided in partnership with a University or Awarding Body
- Online Support for ITI & Diploma Colleges

Workforce Training



- Focused on imparting shopfloor training of factory workers or entry level blue collar
- Environment health & Safety training, quality orientation for enhanced productivity

Workforce Solutions

>>



 Apprenticeship & Staffing solutions to our Industry Partners



Lernern Navigator with Gooru

Gooru is a Silicon Valley based educational nonprofit that has pioneered a unique **Navigated Learning System** which is an integrated learning exchange that enables all stakeholders in the ecosystem to interact and accelerate learning outcomes. The Navigator functions like a GPS for student learning. It locates each learner's current knowledge and skills and then designs a personalized route to their destination.

Gooru Navigator tools are based on a strong foundation in the learning sciences, artificial intelligence, and education practice, and enables the participants to collaborate and accelerate outcomes for their learners. Navigator is currently in use with more than seven million learners in a variety of settings globally.

Together, **Lernern & Gooru** provide customized technology enabled blended learning solutions for blue collar and shopfloor workers specific to the industry requirements and offer upskilling & further education opportunities to the youth to help shape their futures.



gooru



Gooru-Lernern Navigator, a GPS for learning

About the navigated learning system





Learners

Instructors

A cloud based secure platform with mobile app access for learners, instructors, leadership & training content developer for training & development of the workforce.

Leadership



Curriculum Developers





REROUTE

Student is made a reroute suggestion by the system or teacher based on











DESTINATION

goal, that can be a topic or

grade level proficiency

Provider-4

Worked Examples

Mission control & performance tracking

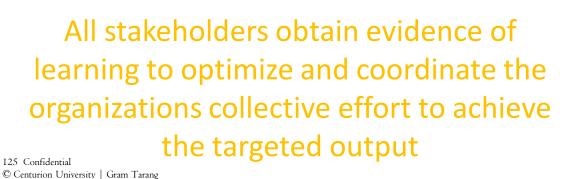


Consolidated data from across data streams on one dashboard to create actionable inputs for the management and ability to see factory wise, department wise worker competency

PERFORMANCE & COMPETENCY GAINS

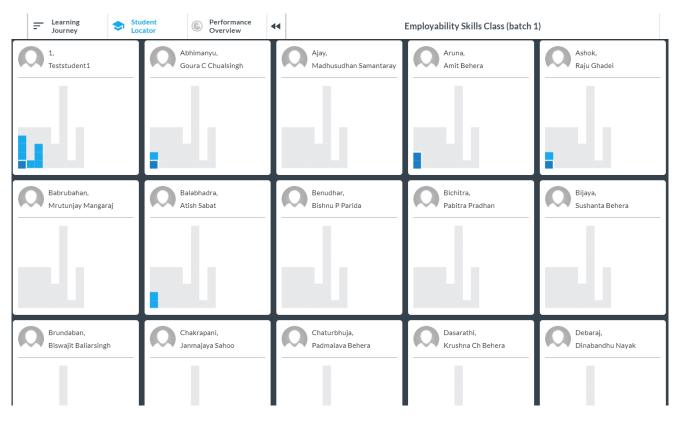
Avg. Performance

Behera



↑ Student Of Employability Skills Class (Batch 1) 30 Student Performance **Competency Mastery** Aruna, Amit Behera Abhimanyu, Goura C Chualsingh Hemanta, Sankar Mandal Dhusasan, Akash Baral Gavadhar, Niranian Behera Sarat, Soumya R Sahoo Kailash, Srikanta Rautaray Pathani, Prashanta

LEARNER journey and skill locator



© Centurion University | Gram Tarang



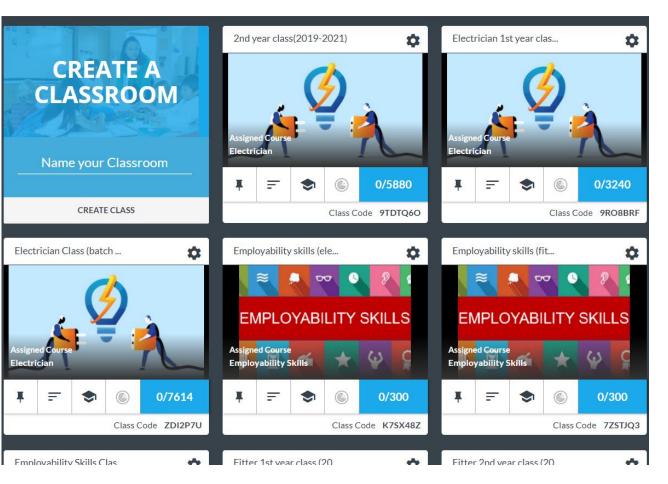
Review employee competency data | Identify individuals progress | Opportunity to engage and provide suggestions

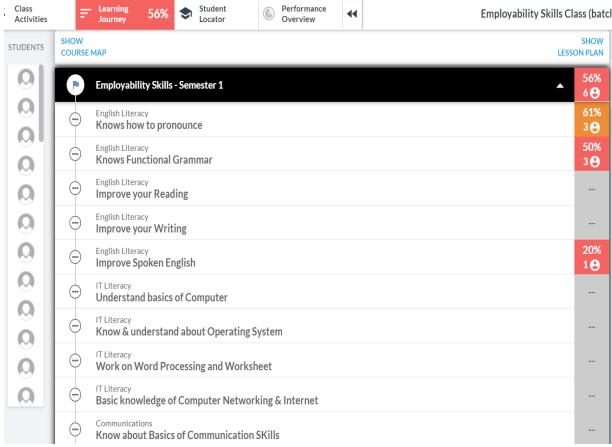
Track learning and development real time

- LOCATE the LEARNERS in REAL-TIME
- Locate the learners wrt current knowledge and mindsets using Navigator with all current practices, curriculum, tools and content
- Use millions of standards aligned open resources to fill the gaps in their learning
- Enable instructor and leadership to personalize intervention to achieve systemic change



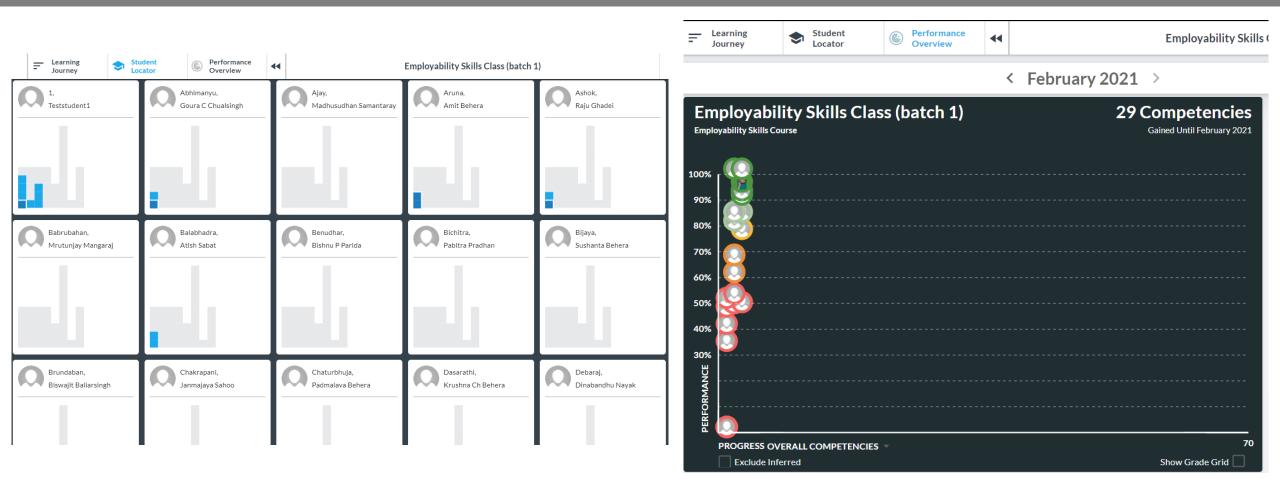
Course map





Gooru enables implementation of agile, systematic changes to the emerging needs. The platform accurately locates the learners across Facets, including their knowledge in various topics

Student journey and skill locator



Review employee competency data | Identify individuals progress | Opportunity to engage and provide suggestions

30

Gained

EMPLOYABILITY SKILLS...





Consolidated data from across data streams on one dashboard to create actionable inputs for the management

All stakeholders obtain evidence of learning to optimize and coordinate the organizations collective effort to achieve the targeted output



WISTA @ KG Mills Coimbatore

- 10th Pass youth mobilized from rural areas of Odisha, Jharkhand
- Foundation Course as per curriculum followed by on the job training opportunity KG Mills in Coimbatore (Accommodation provided on site)
- Alternate pathway for 10th Fail through NIOS
- 10th pass youth enrolled for work integrated ITI where they are given one day of the week to attend full day class & lab practice for pursing an NCVT certification for Fitter or Electrician
- After initial success, the model is being replicated across more factories in the region.











WISTA @ KG Mills Coimbatore















GTET Trainees @ Western Refrigeration







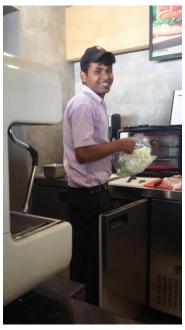


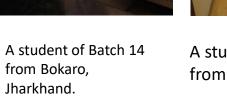




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Work Integrated BBA students





Currently working as a Manager in Café Coffee Day, Bangalore.

from Bokaro,

Jharkhand.

Studying in 3rd year of WI BBA(RH).



A student of Batch 14 from Bokaro, Jharkhand.

Currently working as a Manager in Café Coffee Day, Bangalore.

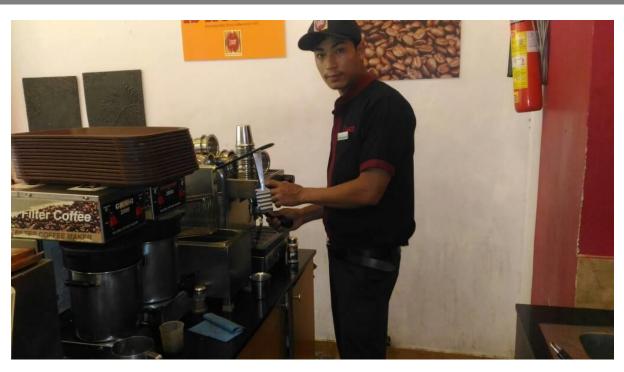
Studying in 3rd year of WI BBA(RH).



A student of Batch 17 from Sonitpur, Assam.

Currently working as a In-charge in Coffee Day Lounge, Bangalore.

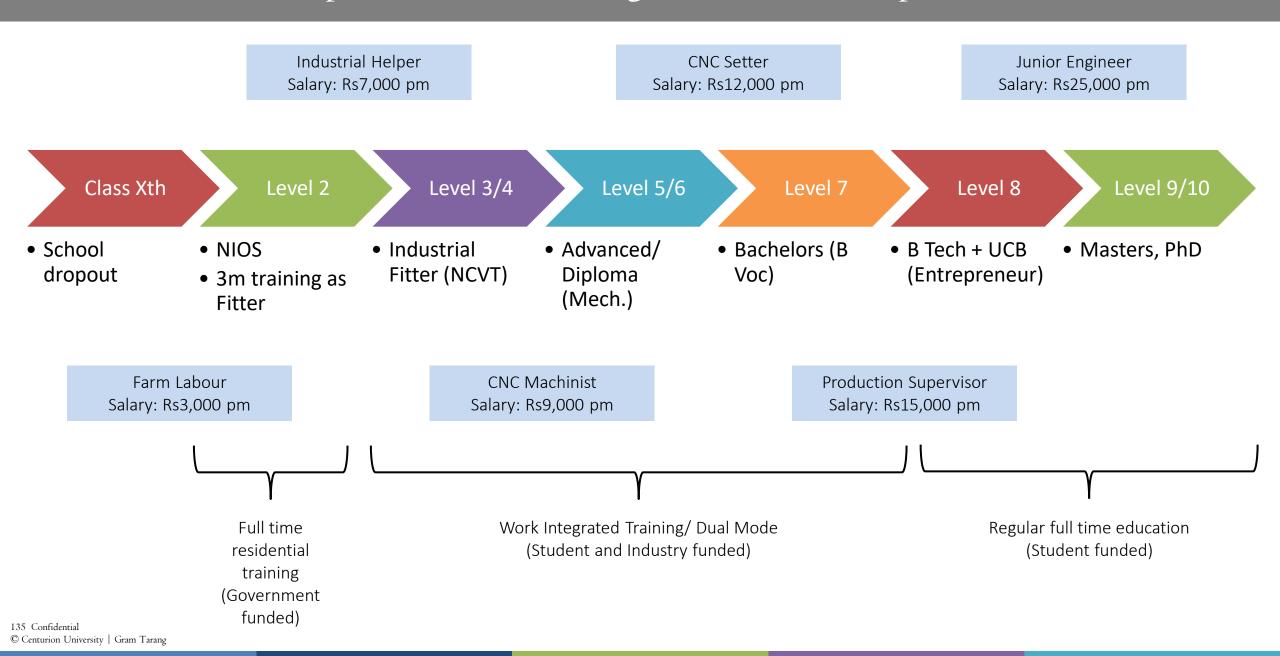
Studying in 3rd year of WI BBA(RH).







Can a Xth class dropout become an Engineer or an entrepreneur?





ENDORSEMENT OF THE CENTURION WAY OF EDUCATION

"Not every university in this region would want to compare themselves to Stanford & Harvard and that they do different functions. so i think that times higher education is committed to trying to get different methods & different metrics to reflect different missions and different priorities. so if your mission like Centurion University is really focused on transforming individual lives and giving people the skills that they need to enter employment, basic educational needs, we should recognize that and try and find metrics to celebrate that"

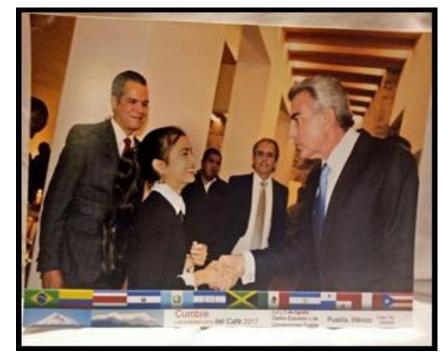
- PHIL BATY, EDITORIAL DIRECTOR, TIMES HIGHER EDUACTION AT THE GLOBAL SUMMIT ON UNIVERSITY RANKING AT MOROCCO IN MAY 2018



Poonam Kumari







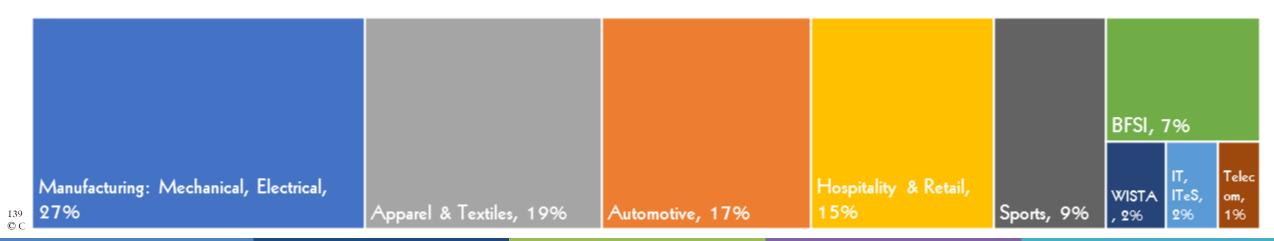
- From Bokaro, Jharkhand
- Completed her Brewmaster training at Gram Tarang in 2015
- She is the first girl to move out of her village, her state, live in another state to
 pursue her career and also to go out of the country and win an award. She is just 20
 years old and the eldest daughter of her family.
- At the 'All Stars Female Barista Competition in Puebla, Mexico' Poonam was in a team of 4 Baristas from Peru, Brazil and Mexico. Her team was recognized as the best performing team at All-Stars, Puebla, 2017

Trainee enrolments over the years

| Enrolments across key verticals | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | Placemen t Offers % | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|------------------------|----------|
| Long Term TVET | | | | | | | | | | | | | | | | |
| 1 NCVT ITI (Fitter, Elec, Welder, Mechanic) | 120 | 182 | 180 | 204 | 300 | 320 | 397 | 419 | 407 | 518 | 499 | 349 | 341 | 403 | 85% | 4,639 |
| 2 Diploma Engineering (Mech, Civil, Elec, Auto) | - | - | - | - | - | - | - | - | 441 | 663 | 575 | 405 | 364 | 422 | 80% | 2,870 |
| Short Term Skilling | | | | | | | | | | | | | | | | 0 |
| 1 Manufacturing Sector | 119 | 157 | 321 | 282 | 1,440 | 2,768 | 3,124 | 2,944 | 3,103 | 5,384 | 4,836 | 4,025 | 4,924 | 5,033 | 72% | 38,460 |
| 2 Automotive | 24 | 30 | 64 | 70 | 360 | 480 | 702 | 736 | 776 | 1,140 | 1,486 | 1,983 | 2,200 | 11,500 | n/a | 21,551 |
| 3 Industrial Sewing Machine Operator | - | - | 124 | 970 | 1,200 | 2,339 | 3,266 | 3,005 | 3,782 | 4,412 | 4,153 | 5,989 | 6,615 | 6,802 | 95% | 42,657 |
| 4 Hospitality, Retail, IT/ITeS | - | 98 | 666 | 1,338 | 535 | 827 | 772 | 1,433 | 1,598 | 1,406 | 1,358 | 2,855 | 3,738 | 4,426 | 78% | 21,050 |
| 5 BFSI | - | - | - | - | 763 | 1,600 | 1,414 | 788 | 3,438 | 2,872 | - | 2,563 | | | 100% | 13,438 |
| 6 Agriculture | - | - | - | - | - | - | - | - | - | - | - | 1,198 | 329 | 36,835 | 100% | 38,362 |
| In Situ Learning | | | | | | | | | | | | | | | | |
| NSQF Schools | - | - | - | - | - | - | - | 815 | 2,229 | 3,460 | 15,570 | 23,445 | 32,287 | 32,301 | n/a | 1,10,107 |
| WISTA | - | - | - | - | - | - | - | - | - | - | 551 | 1,130 | 2,310 | 5,574 | 100% | 9,565 |
| Grand Total | 263 | 587 | 1,508 | 3,037 | 5,077 | 8,873 | 10,179 | 10,499 | 16,034 | 20,189 | 29,028 | 43,942 | 53,108 | 1,03,296 | 80% | 3,02,699 |

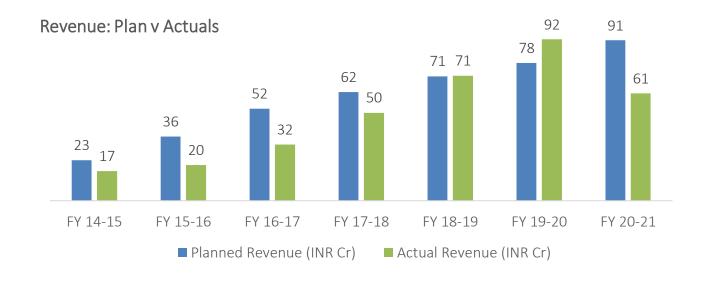
* For Eligible students

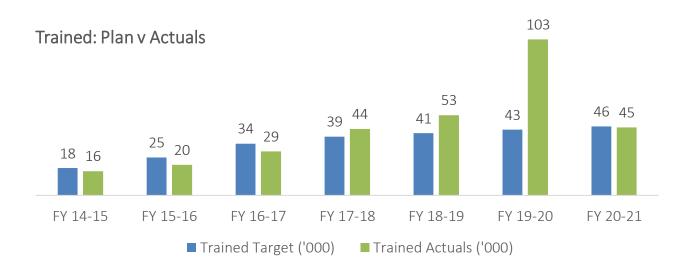
ENROLMENT BY SECTOR



NSDC's highly rated & awarded training partner:

Meeting commitments Year on Year with 100% repayment track record





Key awards & recognition

- Third partner of **National Skill Development Corporation** with following awards:
 - Overall Best Performer NSDC Jun, 2012
 - 2. Best Performing Center 2016
 - Best Training Partner NSDC Apr, 2018
 - Best Placement NSDC Apr, 2018
 - Transforming Rural India, NSDC, 2018
- FICCI Global Skills Summit:
 - Awarded Best Skills Project in Rural Community by FICCI & UK-India Business council in 2010, "Honour Roll - Skills Champion: Emerging Warrior" at Global skills summit in FY 11-12, "Skills Champion of India Award" & at FICCI Global Skills Summit in FY 12-13
- Prime Minister's sub-group of Chief Ministers on skill development hosted by NITI AYOG prominently described Gram Tarang CUTM and its model of integrating skill with higher education, ensuring appropriateness and relevance of education.
- Only University invited by the **Prime Minister** to address the Nation on World Youth Skills Day – 15th July 2015. National Skill Mission commissioned & launched by the Prime Minister.
- Two ITIs operated and managed by Gram Tarang has been ranked among the Top Ten in the MSDE ITIs Ranking 2018













Citations

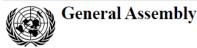
- UN General Assembly: Cited as a best practice in UN report on right to education
- NITI AYOG (2016): Centurion University Gram Tarang as the best practice, the only example from Odisha, in the Report "State Forward Best Practices From Our States"
- Parliamentary committee on skill development: Recognition of Skill integrated higher education by the delegation of 25 Members of Parliament (MP) headed by the Hon'ble Minister (2nd visit) for Skill Development & Entrepreneurship and Parliamentary Affairs, Shri Rajiv Pratap Rudy (28th January 2016)

United Nations



A/67/310

15 August 2012 Original: English



Sixty-seventh session

Item 70 (b) of the provisional agenda*

Promotion and protection of human rights: human rights
questions, including alternative approaches for improving the

The right to education

Note by the Secretary-General

effective enjoyment of human rights and fundamental freedoms

The Secretary-General has the honour to transmit to the General Assembly, in accordance with Human Rights Council resolution 8/4, the report of the Special Rapporteur on the right to education, Kishore Singh.

Prime Minister's sub-group of Chief Ministers on skill development hosted by NITI AYOG prominently described CUTM and its model of **integrating skill with higher education**, ensuring appropriateness and relevance of education.

Special mention by World Bank, UNESCO, McKinsey & Economist in various reports

Centurion University's model of livelihood focus in higher education documented as a best practice and case study by E&Y

Working actively on 5 of 17 UN's Sustainable Development Goals









3 GOOD HEALTH
AND WELL-BEING



4 QUALITY EDUCATION





6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



B DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



PEACE, JUSTICE AND STRONG INSTITUTIONS



17 PARTNERSHIPS FOR THE GOALS





THE WORLD OF HOPES & POSSIBILITIES



Constitutent Campuses: Jatni | Paralakhemundi | Rayagada | Bolangir | Vizianagaram

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