

**3.2.2 Number of workshops/seminars/conference  
conducted on Research Methodology, Intellectual  
Property Rights (IPR) and entrepreneurship during the  
last five years (5)**

## Report On Sustainable Urban Planning - 19, 20/08/2021

CEPT University Ahmedabad & GIZ India in association with Piloo Mody College of Architecture (PMCA), Cuttack, IIA Odisha Chapter and ITPI Odisha Regional Chapter organised the second program of the series of online training programme for Architects, Urban planners & Urban development officials in Odisha focusing on Sustainable Urban Planning.



Implemented by  
**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit GIZ GmbH

**CUPP** CENTER FOR  
URBAN PLANNING  
AND POLICY

**CRDF** CEPT RESEARCH  
AND DEVELOPMENT  
FOUNDATION

**CEPT**  
UNIVERSITY

KNOWLEDGE PARTNERS:

**PMCA**  
PILOO MODY COLLEGE OF ARCHITECTURE



IIA Odisha Chapter



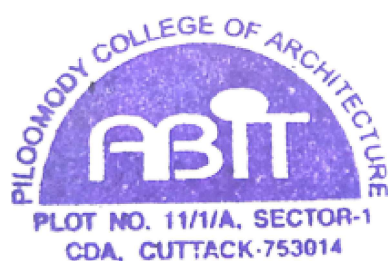
Institute of Town Planners, India  
(Odisha Regional Chapter)



Odisha

ONLINE TRAINING PROGRAMME ON  
**SUSTAINABLE  
URBAN PLANNING**

19 - 20 AUGUST 2021 10:00 - 16:30 IST

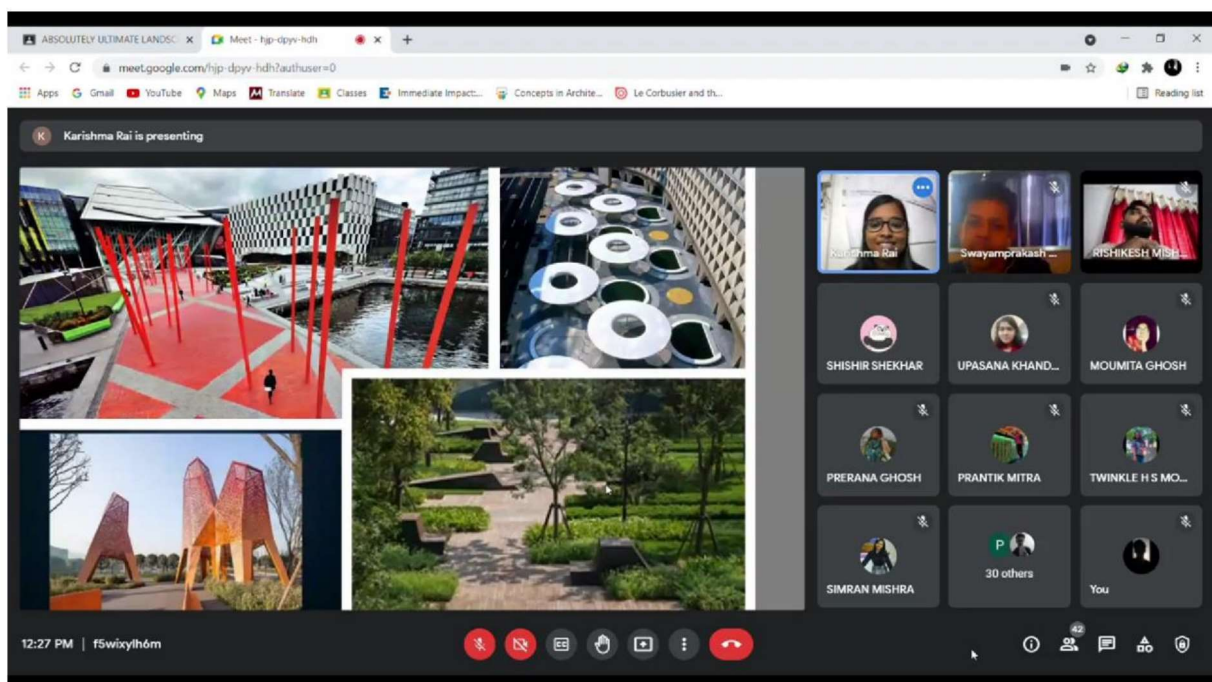
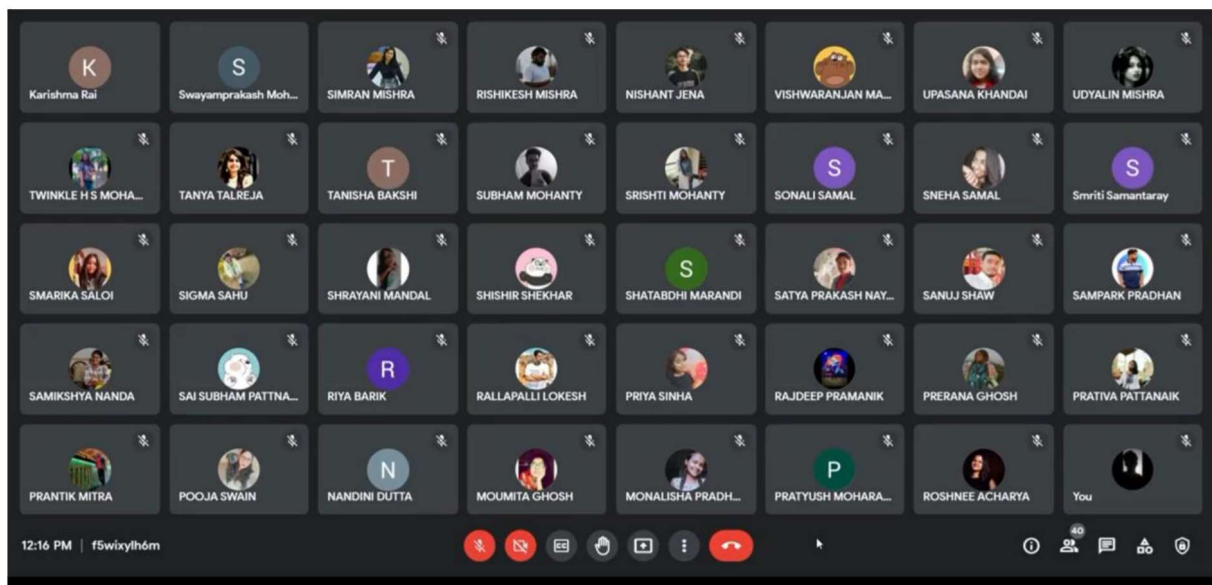


*Shamir Das*  
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## Report On

### Expert Guidance on Landscape Design, BUKC - 23/07/2021

Karishma Rai, an industry professional interacted with the students to explain parameters and nuances of landscape practice on field. She is a practicing Landscape Architect working in Bhubaneswar Urban Knowledge Centre, the PgMC for Bhubaneswar Development Authority. Students were enlightened on various live park and public space projects currently being executed in Bhubaneswar. Process, planting palettes and design programs were explained with visuals and personal site experiences. This was followed by a Q and A session where students raised questions regarding formalisation of concepts in landscape design.





## Report On

### Sustainable Urban Infrastructure, Nature Based Solutions - 15 to 17/07/2021

The German Co operation in collaboration with CUPP / CDRF / and CEPT University Ahmedabad conducted a series of online training programs for architects / planners/ working professionals at the Government & Corporate at various levels. PMCA was the knowledge partner at the State level along with the IIA Odisha Chapter and the ITPI Odisha Regional Chapter . This knowledge enhancement and skill development initiative was of great value to all the participants.



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German Development Cooperation

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**CRDF** CEPT RESEARCH  
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KNOWLEDGE PARTNERS:

**PMCA**  
PILLOOMODY COLLEGE OF ARCHITECTURE



IIA Odisha Chapter



Institute of Town Planners, India  
(Odisha Regional Chapter)

ONLINE TRAINING PROGRAMME ON

## SUSTAINABLE URBAN INFRASTRUCTURE & NATURE BASED SOLUTIONS FOR INDIAN CITIES

15 - 17 JULY 2021 11:00 - 14:00 IST

# GUEST SPEAKERS



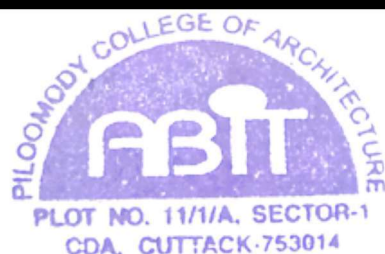
**Ms. Aparna Das**  
Senior Advisor,  
SUD-SC, GIZ India




**Mr. Hitesh Vaidya**  
Director,  
NIUA, New Delhi



**Prof. Rajkunwar Nayak**  
Professor, H.O.D, PMCA Cuttack  
& Chairperson, IIA Odisha



  
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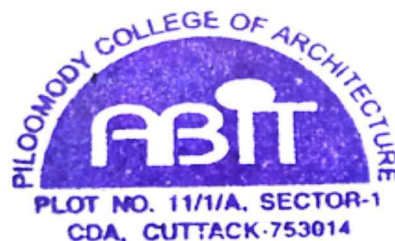


## Report on

### Reinterpreting Traditional Wisdom - The Sustainable Architecture of Hassan Fathy - 02/07/2021

An enriching webinar on traditional architecture was organised and Prof K. Mohan, Director of the Dept. of Architecture at GITAM spoke at length about the architecture practiced by the world-renowned Egyptian architect.

The webinar focused on Principles of Sustainable Architecture. It was attended by PG as well as UG students.



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## Report On

### Webinar on Intellectual Property Rights and its Implications on Qualitative Research - 23/06/2021

A webinar was organised on the 23rd of June, 2021 to create awareness about IPR amongst the Researchers in the field of Architecture. It had a decent turnout of architects in the profession and academia alike. Many Undergraduate and postgraduate students of PMCA and other colleges also attended. The session was chaired by DR. Santosh Kumar Misra, Dean Architecture, BPUT and the chief speaker was DR. Chitta Ranjan Mishra, President of Odisha Bigyan Prachar Samiti. The other notable speaker for the session was Dr. Susanta Kumar Rout, IP Scientist, Department of Science and Technology. The session was very well received and the participants were appreciative of the proceedings.



## AWARENESS WEBINAR ON INTELLECTUAL PROPERTY RIGHTS & ITS IMPLICATIONS ON QUALITATIVE RESEARCH

DATE June 23, 2021  
TIME 4pm to 5pm





**Dr. Chitta Ranjan Mishra**  
President  
Odisha Bigyan Prachar Samiti  
Bhubaneswar Chapter  
*Speaker 1*



**Dr. Susanta Kumar Rout**  
IP Scientist  
Science & Technology Dept  
Bhubaneswar  
*Speaker 2*

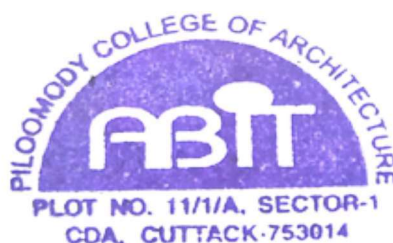



**Dr. Prof. Santosh Kumar Misra**  
Professor  
Dean Architecture, BPUT  
PMCA  
*Session Chairman*

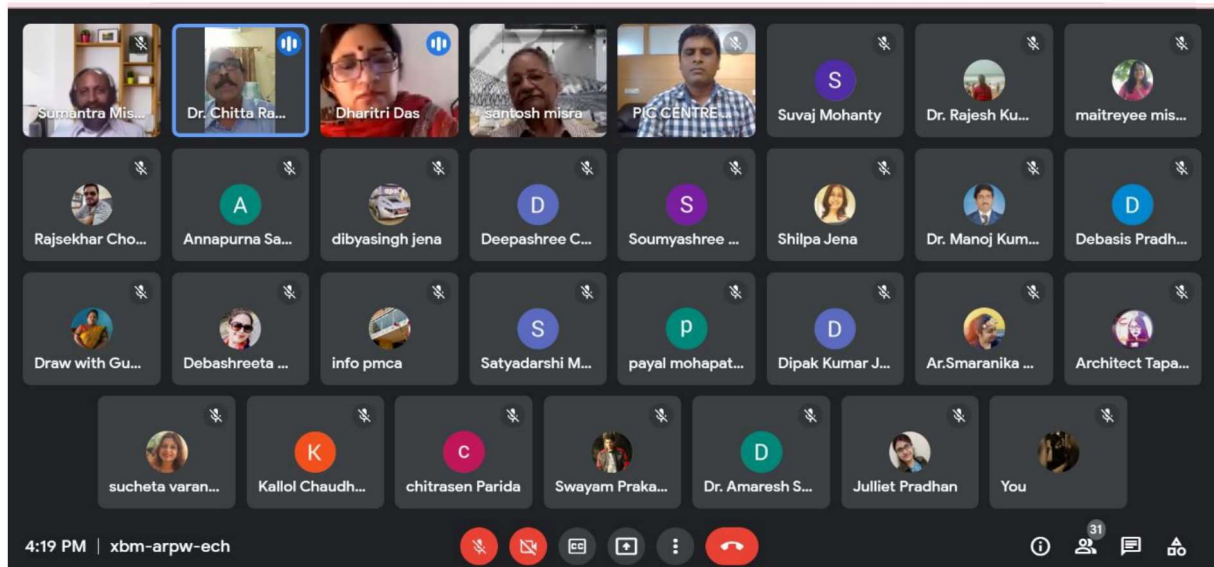


**Dr. Sumantra Misra**  
Coordinator  
Nodal Centre for Research - BPUT  
PMCA  
*Moderator*

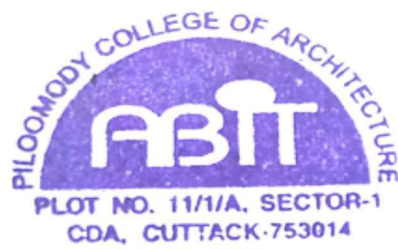
Organized by :  
Piloo Mody College of Architecture  
Address : Plot No. 11/1/A, Sector 1, CDA, Cuttack - 753014  
Email : [info@pmca.ac.in](mailto:info@pmca.ac.in), Website : [www.pmca.ac.in](http://www.pmca.ac.in)



  
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Webinar screenshot



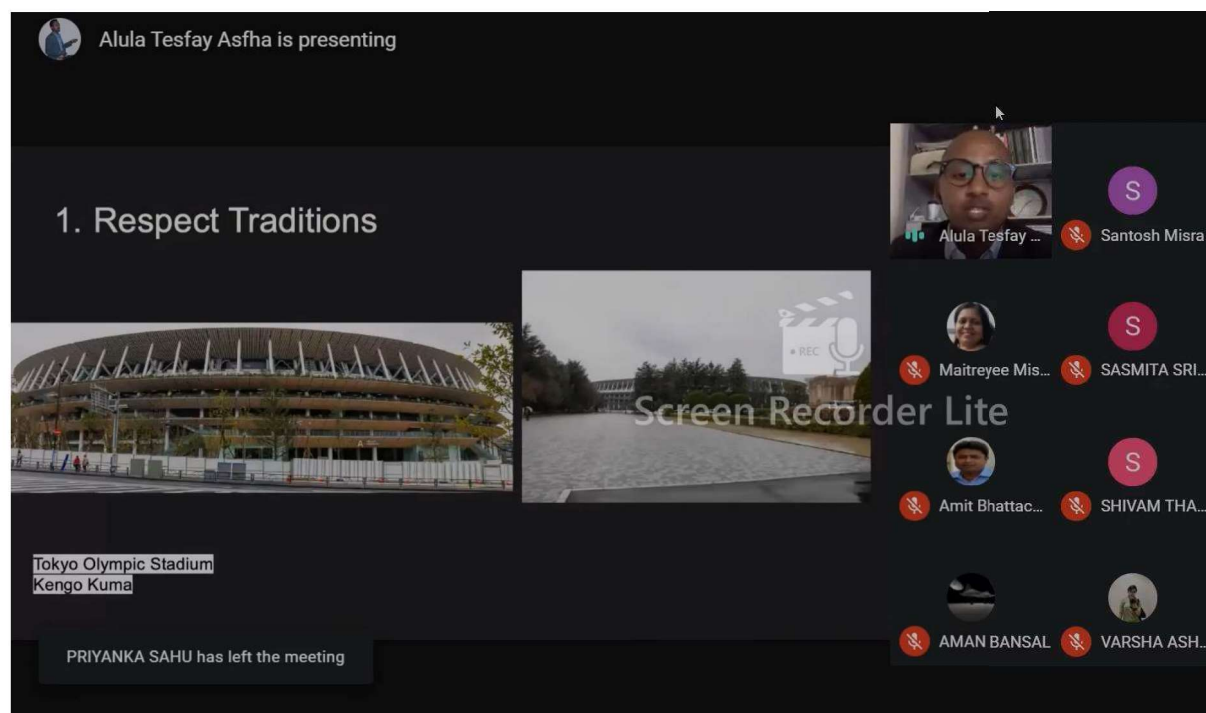
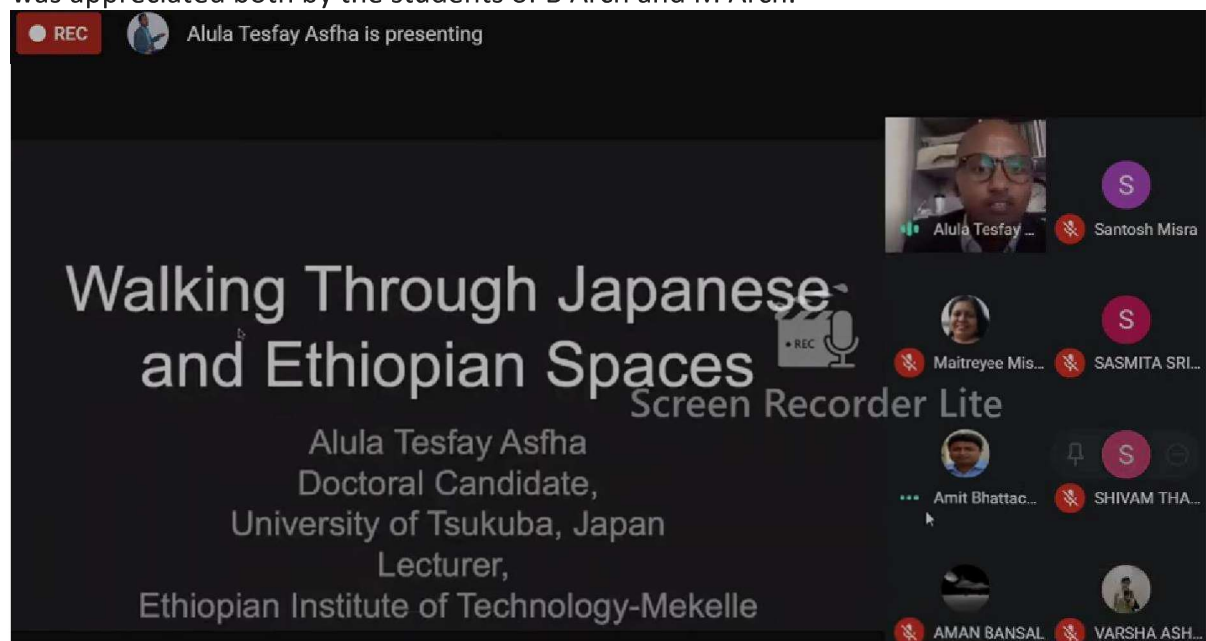
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## Report on

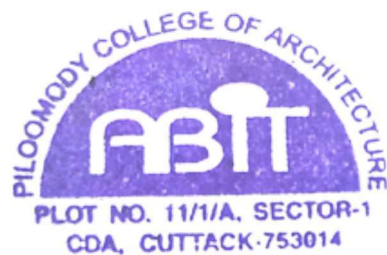
### Walking through Ethiopian and Japanese Spaces: Lessons for design - 14/09/2020


In the first and only International lecture of 2020 in PMCA, DR. Alula Tesfay was invited to speak on design methodology. Alula Tesfay Asfha has a PhD from the World Heritage Studies Doctoral Program, University of Tsukuba, Japan and was a MEXT scholar. He started his career as a Lecturer at the University of Mekelle in Ethiopia. The lecture focused on 5 major lessons every student must consider during any design process. The lecture was well supported by case studies and contrast and comparison of architecture in Ethiopia and Japan. The lecture was appreciated both by the students of B Arch and M Arch.



A Report on Visit to:

**L&T Construction Skills Training Institute,  
Gopalpur, Cuttack.**



  
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Faculty Coordinators,  
Semester 3<sup>rd</sup>,  
Piloo Mody College of Architecture, Cuttack.

## Introduction

The L&T Construction Skills Training Institute (CSTI), located at Gopalpur, Cuttack is an extension of CSR activities of the L&T. The first Construction Skills Training Institute was established in 1995 at Chennai, Tamil Nadu. Construction Skills Training Institute, Cuttack was established in 2012.

CSTIs through structured training have been developing skilled workforce that enables both new entrants and less experienced workers in the industry to progressively improve their knowledge and competencies in various trades. All the courses are designed as short-term vocational training that is practical oriented (80%) and classroom training (20%).

## PMCA in CSTI

PMCA Students were taken to the training institute and given on-site exposure to various construction practices like Brick masonry, bar-bending, scaffolding systems.

First lecture oriented students to safety in construction site. A PowerPoint presentation was followed by lecture on site and personal safety. Then the students were taken to a lab displaying construction safety gears, helmets, emergency medical kits, etc.

Then the students were led to other labs displaying miniature models of brick masonry, bar-bending and scaffolding systems.

Finally the students were taken to the construction yard, where they engaged in brick laying, brick masonry using sand mortar, etc. Also they visited other yards of bar-bending and scaffolding systems.







## Report On

### L&T Construction Skills Training Institute

#### Introduction

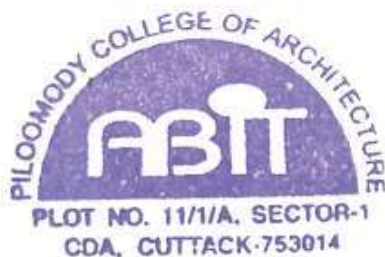
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#### PMCA in CSTI

PMCA 4<sup>th</sup> sem Students in 2018 were taken to the training institute and given on-site exposure to various construction practices like R.C.C. work, roof slab reinforcement and casting, bar-bending, scaffolding systems.

A lecture was given to the students to safety in construction site. Then the students were taken to a lab displaying construction safety gears, helmets, emergency medical kits, etc.

Finally the students were taken to the construction yard, where they engaged in brick masonry work, cement testing and concrete mixing lab. Where they studied different testing procedure and methodology of different concrete grades



  
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# The Making of a Smart City. (Research Project)

Research Co-Ordinator:

Santosh Kumar Misra

Professor of Architecture (Design Chair)

Piloo Mody College of Architecture, Cuttack, Odisha.

## Introduction.

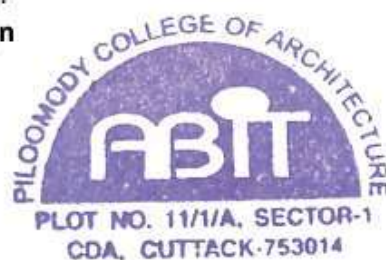
- A **smart city** is an urban development vision to integrate information and communication technology (ICT) and Internet of things (IoT) technology in a secure fashion to manage a city's assets.
- The **Internet of things (IoT)** is the inter-networking of physical devices, vehicles (also referred to as "connected devices" and "smart devices"), buildings, and other items embedded with electronics, software, sensors, actuators, and network connectivity which enable these objects to collect and exchange data.
- These assets include local departments' information systems, schools, libraries, transportation systems, hospitals, power plants, water supply networks, waste management, law enforcement, and other community services
- A smart city is promoted to use urban informatics and technology to improve the efficiency of services.
- ICT allows city officials to interact directly with the community and the city infrastructure and to monitor what is happening in the city, how the city is evolving, and how to enable a better quality of life.
- Through the use of sensors integrated with real-time monitoring systems, data are collected from citizens and devices – then processed and analyzed.
- The information and knowledge gathered are keys to tackling inefficiency.
- Information and communication technology (ICT) is used to enhance quality, performance and interactivity of urban services, to reduce costs and resource consumption and to improve contact between citizens and government.
- Smart city applications are developed to manage urban flows and allow for real-time responses.
- A smart city may therefore be more prepared to respond to challenges than one with a simple "transactional" relationship with its citizens.


## Cities & infrastructure systems

Cities represent the highest concentration of infrastructure and building assets. Intricate webs of decisions are made about their construction, adaptation and use which has a direct bearing on how cities function defining the environments in which we live and work.

It is for us to focus on methods that apply smart, digital technologies to allow cities to reconfigure usage of the built environment as well as investigating emerging barriers to the implementation of smart technologies in existing regulations, standards and business practices at the city scale.

## Sensor & data collection



  
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Development of emerging and innovative sensor technologies have to be taken up. Research Institutes must be revamped and they should excellence in sensors, and lead the way in deploying and testing new technologies to detect and monitor infrastructure performance and anomalies.

### **Data analysis & interpretation**

It is widely acknowledged by government, industry and society that considerable and continuing investment in infrastructure, in all its forms, is essential for a nation to prosper. Converting our critical infrastructure into smart infrastructure and delivering accompanying data analysis and interpretation offers the opportunity to reduce the expenditure needed by providing the key information to prioritise investment in upgrading these structures.

### **Tentative list of tangible and intangible issues for the creation of “smart cities”.**

( The sensor and control systems aspect in mentioned separately in the last)

#### Smart Economy

Innovative spirit.  
Entrepreneurship.  
Economic image and trademarks.  
Productivity.  
Flexibility of labour market.  
International embeddedness.  
Ability to transform.

#### Smart People

Level of Qualifications.  
Affinity to lifelong learning.  
Social and ethnic plurality.  
Flexibility.  
Creativity.  
Cosmopolitanism/Open mindedness.  
Participation in Public life.

#### Smart Governance

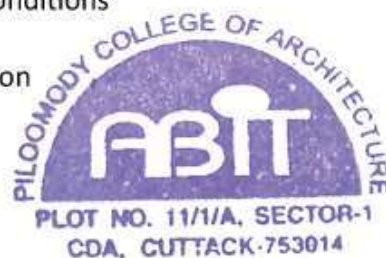
Participation in decision making.  
Public and social service.  
Transparent governance.  
Political strategy and perspective.


#### Smart Mobility

Local accessibility  
(Inter-)national accessibility  
Availability of ICT-infrastructure  
Sustainable, innovative and safe transport systems

#### Smart Environment

Attractivity of natural conditions  
Pollution  
Environmental protection



  
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Sustainable resource management  
Smart living  
Cultural facilities  
Health conditions  
Individual safety  
Housing quality  
Education facilities  
Touristic attractivity  
Social cohesion  
Creation of the physical Infrastructure.

### **In-Tangible Aspects of a Smart city.**

Creation of the non-tangible infrastructure (ICT related)  
**Sensors and controls infrastructure.**

A **control system** is a device, or set of devices, that manages, commands, directs or regulates the behavior of other devices or systems. City control systems are used in the city for controlling equipment and machines.

There are two common classes of control systems, open loop control systems and closed loop control systems. In open loop control systems output is generated based on inputs. In closed loop control systems current output is taken into consideration and corrections are made based on feedback. A closed loop system is also called a feedback control system. The human body is a classic example of feedback systems.

#### **Sensor -What it Detects**

##### **Temperature**

Temperature

##### **Light**

Light / dark

##### **Pressure**

Pressure (e.g. someone standing on it)

##### **Moisture**

Dampness / dryness

##### **Water-level**

How full / empty a container is

##### **Movement**

Movement nearby

##### **Proximity**

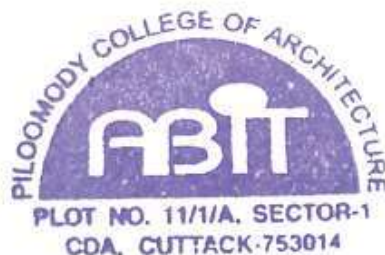
How close / far something is


##### **Switch or button**

If something is touching / pressing it

#### **A few areas of smartness which can be used in the cities:**

Grid automation  
Protection relay  
Renewable  
Smart meters  
Smart street lights  
Surveillance cameras  
Energy harvesting



  
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Wireless grid communication

### **How to start making a smart City.**

1. Work out what problems need fixing
2. Find a leader
3. Develop a vision everyone can get behind
4. Make a business case
5. Share data and incentivise innovation
6. Design from the bottom up
7. Tread carefully
8. Get politicians on board
9. Educate citizens
10. Spread the word

### **Designing of the Smart City.**

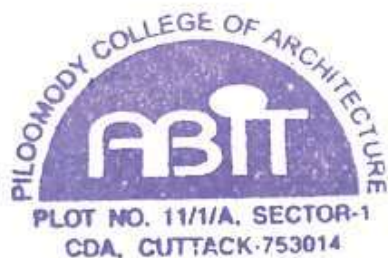
The working / creation of a smart city will have three aspects , the first will be the tangible aspects, second will be the intangible aspects and the third will be the interface aspect ( The sensors and the control systems) .


The tangible aspects shall be designed in the regular way by architects / town planners/ town administrators through the making of master plans, zonal development plans, urban design proposals etc. , while the Intangible (ICT) aspects will be taken care by the technocrats dealing with sensors and control systems.

The interface aspects, also to be called the Control Systems aspects, will have to be taken up by a team of ENTC engineers.

There must be good interaction and communication between the three groups for proper co-ordination, since they will be producing work which will be holistic and comprehensive.

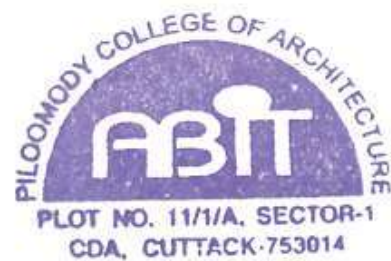
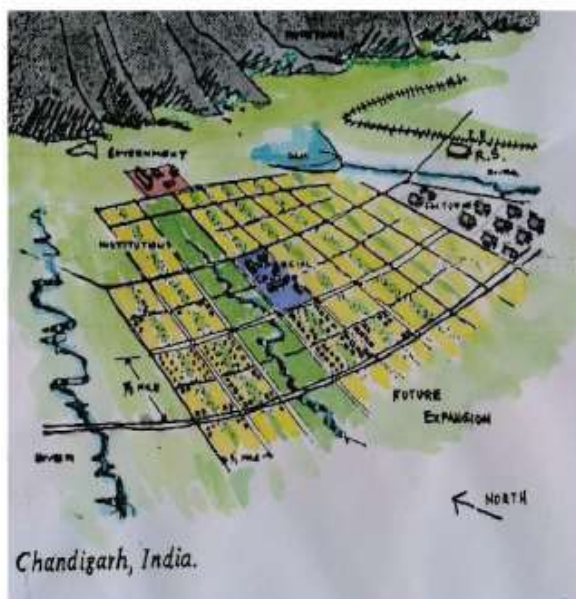
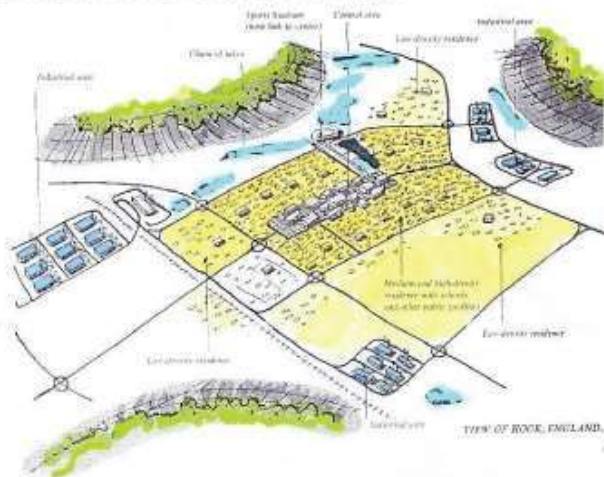
**In this program the researchers will take a green field area and design a city /town on it providing/fulfilling all the requirements of a smart city based on the information give to them in the earlier paragraphs of this brief.**



  
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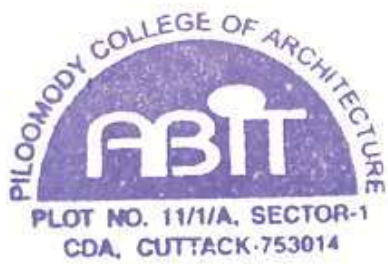


## Some of the experiments.



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## Report of the workshop on “Research in Architecture”

“Research in Architecture” has not been taken up in a big way due to the feeling that Architecture is practical in nature and does not need much research inputs. However, in the last many years “Research in Architecture” has become an important area of work in most academic institutions all over the world. In view of this Piloo Mody College of Architecture (PMCA) made a proposal for the conduct of a Training Programme and placed the same before COA-TRC, Bhubaneswar for support and participation. The proposal was approved and the programme took place from 9<sup>th</sup> to 13<sup>th</sup> April, 2018 at PMCA college campus.



COA-TRC programme conducted at PMCA college campus.

### Day 1 (9<sup>th</sup> April 2018)

The 5-day Training Programme began with the inaugural session presided by the Honorary Director of COA-TRC, Bhubaneswar Prof S.S. Ray. Others present were Director Academics ABIT Er Payal Mahapatra, Principal Prof Dharitri Das and the Dean Architecture BPUT Prof S.K. Misra.

The first session was conducted by Prof. Dr. Santosh Kumar Misra who gave an Introduction to Research and discussed the Objectives and Motivation for Research. He was followed by Prof Dr Kajri Mishra (Dean, XUB, Bhubaneswar) who gave presentations on Types of Research in Architecture and various aspects of Recent Advances in Architectural Research. The day concluded with a session by Dr. Antarin Chakraborty (Planning Consultant, Equity CELL, H & UD Department, Govt. Of Odisha) where he focused on various affordability and cost effective solutions for Housing.

*Antarin*







Prof. S.S. Ray, Director of COA-TRC  
addressing at the inaugural session



Prof. Dharitri Das, Principal, PMCA



Prof. Dr. Santosh Kumar Misra,  
Dean, Architecture, BPUT



Prof. Dr. Kajri Mishra, Dean, XUB



Dr. Anant Chakraborty (Planning Consultant,  
Equity CELL, H & UD Department, Govt. Of  
Odisha)

## Day 2 (10<sup>th</sup> April 2018)

The Pre-lunch Session was an extremely informative and interesting session by Dr Madhumita Roy ( Professor, Jadavpur University) where she presented from the very basics how to understand a research and the process of choosing the apt research topic. Her presentation in the post lunch session also included examples of various topics which has been undertaken under her supervision.

The post lunch session also included a presentation by Ar Sumantra Misra on questionnaires, survey, polls and ways how to conduct them online.



Prof. Sumantra Misra, Associate Professor, PMCA



Dr Madhumita Roy, Professor, Jadavpur  
University

## Day 3 (11<sup>th</sup> April 2018)

Dr Abraham George from IIT, Kharagpur presented on methods of dealing with the findings and how to draw conclusion in a research. He also spoke on various Test applications and possible avenue for getting a funding. His presentation extended post lunch as well.



The post lunch session also had the presentation by Dr. Janmejoy Gupta from BIT, Mesra, on taking up Experimental Research in Architecture. He also briefed us on possible funding and grants in details.



Dr Abraham George, IIT Kharagpur

#### Day 4 (12<sup>th</sup> April 2018)

Dr. Madhumita Roy gave a presentation on her project to restore the “Writers Building” in Kolkata. She also spoke on various possible topics that can be taken for a research. She also answered various question of the participants.

Post lunch session was a site visit to the R & D cell of ABIT to understand various possibilities of Experimental research. This was followed by a site trip to a village near Dhabaleshwar to experiment a vernacular settlement to understand thermal comfort condition. Various instrument to experiment and collect data was demonstrated by Dr. Janmejoy Gupta.

#### Day 5 (13<sup>th</sup> April 2018)

The last day of the 5-day session began with a presentation by Dr. Sudeshna Datta Chaudhuri on Report writing & publication.

The pre-lunch session also had a presentation by Ar. Sumantra Misra on “Use of software for citation and reference”.

The programme ended on a high note with a valedictory ceremony for the speakers and the participants. The participants were awarded with certificates and it was followed by a participants’ response session.

#### Conclusive Observation

The programme was conducted at a time when the fraternity of architects were completely engaged in work concerning COA inspection, examinations, thesis submission and others. As such the attendance became a problem. The participants constituted mainly of local teachers who were highly interested in pursuing research work.

The speakers, both invited and local were exceptional and discussed on a wide range of issues concerning research thus making the programme comprehensive.

The participants were immensely benefitted, the venue was good, the organization and hospitality was excellent.





**Workshop on " Research in Architecture"**  
**By COA-TRC, Bhubaneswar in association with PMCA, Cuttack**  
**Dates : 9<sup>th</sup> to 13<sup>th</sup> April, 2018**  
**Venue : PMCA, Cuttack**  
**List of Participants**

SL	Name of Participant	Institution	COA
1	AR. MAITREYEE MISHRA	Piloo Mody College of Architectiure	CA/96/1988
2	AR. SANGHAMITRA RATH	Piloo Mody College of Architecture	CA/1995/18499
3	AR. RUMA BHATT	Piloo Mody College of Architecture	CA/2007/41354
4	AR. CHITRASEN PARIDA	Piloo Mody College of Architecture	CA/2010/48191
5	AR. DILLIP KAR	Piloo Mody College of Architect: ure	CA/2015/73202
6	AR. DEEPAK KUMAR JENA	Piloo Mody College of Architecture	CA/2010/49158
7	AR. SUVAJ MOHANTY	Piloo Mody College of Architecture	CA/2011/51788
8	AR. RAJ KUNWAR NAYAK	Piloo Mody College of Architectiure	CA/93/16832
9	PROF. S K MISRA	Piloo Mody College of Architecture	CA/79/5266
10	AR. DHARITRI DAS	Piloo Mody College of Architecture	CA/94/16897
11	AR. KRISHNOKOLI DUTTA	I.G.I.T, Sarang	CA/2016/75674
12	AR. VAIBHAV JAIN	Sri Sri University	CA/2010/49648
13	AR. PRIYANKA MISHRA	KIIT School of Architecture and Planning	CA/2003/30618
4	AR. PARTHIBA CHAKRABORTY	KIIT School of Architecture and Plcnning	CA/2013/60427
15	AR. DEBASHREETA DEBABARNI	Piloo Mody College of Architecture	CA/2005/35357
16	AR. SMARANIKA SATPATHY	Piloo Mody College of Architect ure	CA/2005/35020





# Workshop on " Research in Architecture "

By COA-TRC, Bhubaneswar in association with PMCA, Cuttack

Dates : 9<sup>th</sup> to 13<sup>th</sup> April, 2018

Venue : PMCA, Cuttack

Sl	Name of Participant	Day -1 (9.04.2018)				Day - 2 (10.04.2018)				Day - 3 (11.04.2018)				Day - 4 (12.04.2018)				Day - 5 (13.04.2018)			
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
1	AR. MAITREYEE MISHRA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	AR. SANGHAMITRA RATH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	AR. RUMA BHATT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	AR. CHITRASEN PARIDA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	AR. DILLIP KAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	AR. DEEPAK KUMAR JENA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	AR. SUVAJ MOHANTY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	AR. RAJ KUNWAR NAYAK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	PROF. S K MISRA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	AR. DHARITRI DAS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	AR. KRISHNOKOLI DUTTA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	AR. VAIBHAV JAIN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	AR. PRIYANKA MISHRA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	AR. PAKSHIBA CHAKRABORTY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	AR. DEBASHREETA DEBARNI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	AR. SMARANIKA SATPATHY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Signature of Program Co-ordinator (PMCA, Cuttack)	Signature of Hony. Director COA-TRC, Bbsr Prof. S S Ray
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## Research in Architecture

Sl.	Day 1 (9 <sup>th</sup> Apr)	Timing	Resource Persons
1	Registration of Participants at PMCA	9.30 -10.30 AM	-
2	Inaugural Session	10.30 -11.00 AM	<ul style="list-style-type: none"> <li>• Inaugural ceremony,</li> <li>• Welcome address by DIRECTOR, PMCA</li> <li>• PMCA Report by PROF. DHARITRI DAS, Principal, PMCA</li> <li>• Address by AR. B R NAYAK, President, COA</li> <li>• Address by PROF S S RAY, Director, COA-TRC, Bhubaneswar</li> <li>• Vote of Thanks by PROF. S K MISRA</li> </ul>
	TEA BREAK	11.00 -11.30 AM	-
3	Introduction to Research	11.30 -12.00 PM	PROF. S K MISRA, Workshop Coordinator, Professor, PMCA
4	Objectives and Motivation for Research		
5	Types of Research in Architecture	12.00 -1.00 PM	DR. KAJRI MISRA, Professor & Dean, XUB, BBSR PH.D (CORNELL) DEAN, XSRM & COORDINATOR, XUMG XAVIER CENTER FOR URBAN MANAGEMENT AND GOVERNANCE
	Research Strategy and Methodology; case studies		
6	Recent Advances in Architectural Research with respect to Affordability of Housing and Infrastructure	1.00 -1.30 PM	DR. KAJRI MISRA, Professor & Dean, XUB, BBSR PH.D (CORNELL) DEAN, XSRM & COORDINATOR, XUMG XAVIER CENTER FOR URBAN MANAGEMENT AND GOVERNANCE
	LUNCH	1.30-2.30 PM	-
7	Recent Advances in Architectural Research – Affordability and cost effective solutions for Housing	2.30 -4.00 PM	Dr. ANTARIN CHAKRABORTY PLANNING CONSULTANT, EQUITY CELL, H & UD DEPARTMENT, GOVT. of ODISHA.
8	Question & Answer Session	4.00 -4.15 PM	SPEAKERS & PARTICIPANTS
	TEA BREAK	4.15 -4.30 PM	-
9	Assignment	4.30 -4.45 PM	PROF. DR. S K MISRA, Professor, PMCA
10	Summing Up	4.45 -5.00 PM	PROF. RAJKUNWAR NAYAK, Professor, PMCA





Sl.	Day 2 (10 <sup>th</sup> Apr)	Timing	Resource Persons
1	Areas of Architectural Research	10.30 -11.15 AM	PROF. DR. MADHUMITA ROY, Professor, JU, KOLKATA
2	Case study methods in Architectural Research	11.15 -11.45 AM	PROF. DR. S K MISRA, Professor, PMCA
	TEA BREAK	11.45 -12.00 PM	-
3	Types of Data Collection Recent Advances in Architectural Research – Cost Optimisation through Cost Effective Technology	12.00 -1.15 PM	PROF. DR. MADHUMITA ROY, Professor, JU, KOLKATA
4	Question & Answer Session	1.15 -1.30 PM	SPEAKERS & PARTICIPANTS
	LUNCH	1.30 -2.30 PM	-
5	Questionnaires and Surveys / Conducting on-line surveys and polls	2.30-3.15 PM	PROF. DR. S K MISRA, Professor, PMCA
6	Data Analysis and processing	3.15-4.00 PM	PROF. DR. S K MISRA, Professor, PMCA
7	Question & Answer Session	4.00-4.15 PM	SPEAKERS & PARTICIPANTS
	TEA BREAK	4.15 -4.30 PM	-
8	Analytical tools and Research Aids	4.15 -4.45 PM	PROF. DR. S K MISRA, Professor, PMCA
9	Summing up	4.45 -5.00 PM	PROF. RAJ KUNWAR NAYAK, Professor, PMCA

Sl.	Day 3 (11 <sup>th</sup> Apr)	Timing	Resource Persons
1.	Methods of dealing with Findings and conclusions Test applications	10.30-11.45AM	PROF. DR. ABRAHAM GEORGE, Professor, IIT KHARAGPUR
	TEA BREAK	11.45 -12.00 PM	-
2	Recent Advances in Architectural Research – Advanced Material Sciences	12.00 -1.15 PM	PROF. DR. ABRAHAM GEORGE, Professor, IIT KHARAGPUR
3	Question & Answer Session	1.15 -1.30 PM	SPEAKERS & PARTICIPANTS
	LUNCH	1.30 -2.30 PM	-
4	Experimental Research in Architecture Funding and Grants for Research Work	2.30 -4.00 PM	DR. JANMEJOY GUPTA, Asst. Professor, BIT MESRA DR. JANMEJOY GUPTA, Asst. Professor, BIT MESRA
5	Question & Answer Session	4.00 -4.15 PM	SPEAKERS & PARTICIPANTS
	TEA BREAK	4.15 -4.30 PM	-
6	Summing Up	4.30 -5.00 PM	PROF. DR. S K MISRA, Professor, PMCA





Sl.	Day 4 (12 <sup>th</sup> Apr)	Timing	Resource Persons
1.	Interdisciplinary inputs for Architectural Research	10.30 -11.00 AM	PROF. DR. MADHUMITA ROY, Professor, JU, KOLKATA
2	Research Proposal Presentation by Research Scholars and response	11.00 -12.00 PM	PH.D. ASPIRANTS
3	Site Visit to understand Experimental Research - Visit to R&D Cell, ABIT	12.00 -2.00 PM	DR. JANMEJOY GUPTA, Asst. Professor, BIT MESRA
	LUNCH	2.00 -2.45 PM	-
4	Visit to Experimental Site – a Vernacular settlement to understand thermal comfort conditions	2.45 -5.30 PM	DR. JANMEJOY GUPTA, Asst. Professor, BIT MESRA

Sl.	Day 5 (13 <sup>th</sup> Apr)	Timing	Resource Persons
1	Report writing and Publications	10.30 -11.00 AM	DR. SUDESHNA DUTTA CHOUDHURY, Professor, KIIT
2	Use of Software for citation and reference	11.00 -11.30 AM	PROF. DR. S K MISRA, Professor, PMCA
	TEABREAK	11.30 -11.45 AM	-
3	Research Proposal Presentation by Research Scholars and response	11.45 -1.00 PM	PH.D. ASPIRANTS
4	Discussion forum	1.00 -1.30 PM	PH.D. ASPIRANTS
	LUNCH	1.30 -2.30 PM	-
5	Selection of Guides and supervisors	2.30 -3.15 PM	PROF. DR. S K MISRA, Professor, PMCA
6	Research Possibilities in Vernacular Architecture	3.15 -4.00 PM	EXPERT PRESENTATION
7	Question & Answer Session	4.00 -4.15 PM	SPEAKERS & PARTICIPANTS
	TEA BREAK	4.15 -4.30 PM	-
8	Administering the PhD program – following the rules	4.30 -4.50 PM	PROF. DHARITRI DAS, Principal, PMCA
9	Summing up	4.50 -5.00 PM	PROF. DR. S K MISRA, Professor, PMCA
10	Valedictory	5.00 -5.30 PM	



## Report On

### L&T Construction Skills Training Institute

#### Introduction

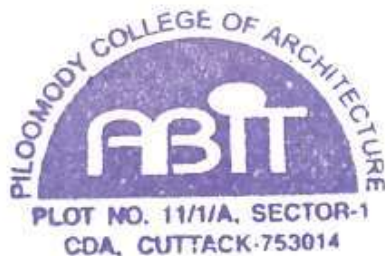
The L&T Construction Skills Training Institute (CSTI), located at Gopalpur, Cuttack is an extension of CSR activities of the L&T. The first Construction Skills Training Institute was established in 1995 at Chennai, Tamil Nadu. Construction Skills Training Institute, Cuttack was established in 2012. CSTIs through structured training have been developing skilled workforce that enables both new entrants and less experienced workers in the industry to progressively improve their knowledge and competencies in various trades. All the courses are designed as short-term vocational training that is practical oriented (80%) and classroom training (20%).


#### PMCA in CSTI

PMCA 4<sup>th</sup> sem Students in 2017 were taken to the training institute and given on-site exposure to various construction practices like R.C.C. work, roof slab reinforcement and casting, bar-bending, scaffolding systems.

A lecture was given to the students to safety in construction site. Then the students were taken to a lab displaying construction safety gears, helmets, emergency medical kits, etc.

Finally the students were taken to the construction yard, where they engaged in foundation excavation, reinforce binding and placing. Also they visited other yards to understand roof slab casting.



  
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## **Report On**

### **L&T Construction Skills Training Institute**

#### **Introduction**

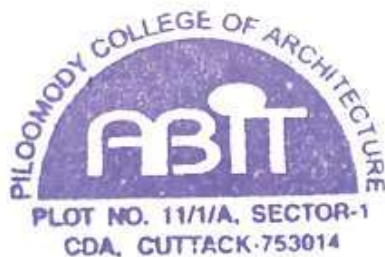
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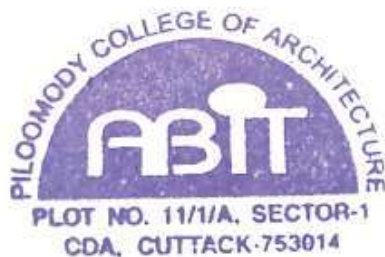



  
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A Report on Field Visit to:

# **Laurie Baker Centre, Vilappilsala, Kerala**



  
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Faculty Coordinators,  
Piloo Mody College of Architecture, Cuttack.

## Introduction

The Laurie Baker Centre for Habitat Studies in Thiruvananthapuram has been set up to propagate the philosophy and legacy of late the Dr. Laurence Wilfred Baker (affectionately called Laurie Baker), the Master Architect, who charted a cost-effective, environment-friendly and local resource-based alternative to building construction in India. Laurie Baker established the Centre of Science and Technology for Rural Development (COSTFORD for short) to widen his activities in the area of cost-effective building construction. Upon the passing away of Laurie Baker in 2007, members of the COSTFORD family as well as his admirers floated and deliberated on the idea of giving shape to an institution that will engage in training, research, development and dissemination in the area of alternative and people-friendly architecture and building construction, alternative sources of energy, waste management, sanitation and such related areas as can be subsumed under the heading of Green Habitat, and decided to register an institution called "Laurie Baker Centre for Habitat Studies", his life partner, as chairperson. Thus, with active support from COSTFORD, the Laurie Baker Centre for Habitat Studies (henceforth LBC) was established as a Society, registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act XII of 1955 at Thiruvananthapuram, Kerala, on 14 January 2009.

## LBC Exposure Programme

The exposure programme aims to imbibe the spirit of sustainable habitat development through sharing of knowledge on alternative techniques in architecture and construction of buildings, techniques that are based on green habitat and affordable, environment friendly and aesthetically appealing principles. These include use of bamboo, mud, bricks, granites and recycling of used building materials. Architectural designs suited to given climatic conditions, optional use of natural lighting and ventilation are also part of the training programme.

Initiated in 2012, this programme attracts students of architecture of different colleges from all over India as participants. So far, the programme has consistently attracted more than 500 students every year. The programme is twenty eight hours long, and uses a combination of teaching methodologies.

1. Lecture-cum-discussions on Laurie Baker's approach to architecture and buildings.
2. Practical sessions encouraging hands-on exercises on varied alternatives in architecture.
3. Site visits to completed and ongoing projects which are based on the cost effective building technologies and Baker's construction approaches.



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4. In addition, an informal one hour long post-dinner discussion is held with the participants to facilitate and encourage more interaction and learning.


Lectures are held on the topics given below. Faculty for the lectures comes from both within and outside the LBC. Classes are conducted at the LBC campus as well as at the SEWA hall in the adjoining campus, depending on the number of participants.

1. Towards a Green Habitat: Approaches and Examples
2. Introduction to Laurie Baker, COSTFORD, LBC and Baker's philosophy
3. Energy considerations in architecture and building construction
4. Cost Effective Construction Technology -Part I and II
5. Lecture on "Climate Responsive Architecture"








  
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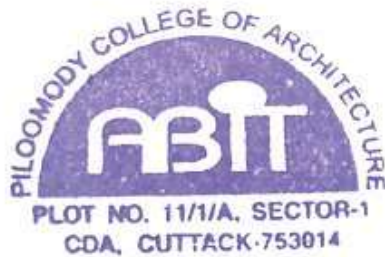
  
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A Report on Field Visit to:

# Auroville Green Practices Workshop



A handwritten signature in blue ink, appearing to read "Shamir D.", is written above the official stamp.

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Faculty Coordinators,

Piloo Mody College of Architecture, Cuttack.



## Introduction

Auroville Green Practices aims to bring together various stakeholders to envision future townships that offer a habitat that is ecologically, socially and economically nurturing. Distinguished professionals in the field share their vision and experiences in the form of plenary talks, participatory sessions and a panel discussion addressing the key question concerning sustainable integrated human habitats. Auroville Green Practices is managed by Auroville Consulting, a unit under Auroville Foundation.

## The Programme

The Solar Passive Design Seminar was envisioned as a five days student's practicum commencing from 31st of January 2016 to 4th of February 2016. The programme aimed at introducing students to solar passive design and green building design strategies as they are implemented in Auroville. The programme emphasized interactive visits to structures, live sketching of the visited structures by the students. Lectures by experts in the field are highlights of the programme.



*Shankar Das*  
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**SOLAR PASSIVE DESIGN SEMINAR – 31<sup>ST</sup> - 04<sup>TH</sup>, JANUARY, 2016.**  
(A Five Day Student Practicum)

This program aims at introducing students to solar passive design and green building design strategies as they are implemented in Auroville. The program will emphasize on interactive visits to structures, and students will be requested to draw sketches of selected buildings they visit. Lectures by experts in the field are incorporated into the program.

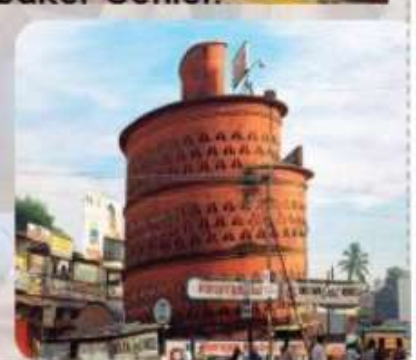
**Schedule:**

- 29<sup>TH</sup> January:** Leave From Bhubaneswar.
- 30<sup>TH</sup> January:** Arrival At Chennai. Leave for Auroville. Check in & refresh.
- 31<sup>ST</sup> January:** Visit To Pondicherry.
- 01<sup>ST</sup> – 03<sup>RD</sup> February:** Site Visits & presentations.
- 04<sup>TH</sup> February:** Check Out. Visit to Auroville Bamboo Center.  
Leave for Chennai & then to Bhubaneswar.

**FOR STUDENTS WHO ARE INTERESTED TO CONTINUE FOR LBC WORKSHOP.**

**WORKSHOP ON COST EFFECTIVE BUILDING CONSTRUCTION**  
**05<sup>TH</sup> - 09<sup>TH</sup>, FEBRUARY, 2016.**

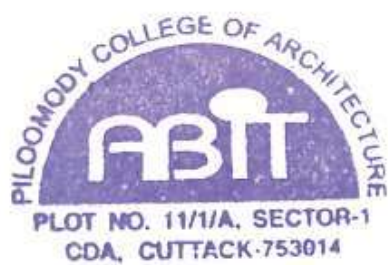
- 04<sup>TH</sup> February:** Check Out. Visit to Auroville Bamboo Center.  
Leave for Trivandrum.
- 05<sup>TH</sup> February:** Reach Trivandrum. Check in at Laurie Baker Center.  
Workshop Starts.
- 06<sup>TH</sup> - 07<sup>TH</sup> Feb:** Workshop at LBC. Hands On Training.
- 08<sup>TH</sup> - 09<sup>TH</sup> Feb:** Site Visits.
- 10<sup>TH</sup> February:** Return to Bhubaneswar.







  
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## Report on

### 5 Days Student Practicum on Solar Passive Design Seminar - 31 to 04/01/2016

Organised under the Auroville Green Practices Workshops the program aimed at introducing students to solar passive design and green building design strategies as they are implemented in Auroville. The program included interactive visits to structures, where students drew sketches of selected buildings. Students were also given lectures by resident experts in the field of architecture.



Auroville  
**Green Practices Workshops**

presents

#### **Five Day Student Practicum**

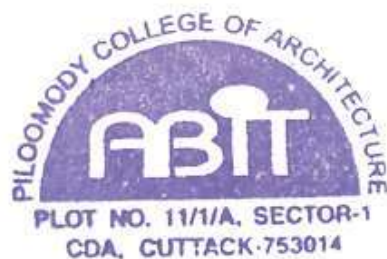
5<sup>th</sup> Jan - 9<sup>th</sup> Jan ' 2015

on

**Earth & Bamboo as building material, Sustainable Energies,  
Ecological Restoration, Ecological Sanitation, Waste Management , etc.**

Organised by **Auroville Green Practices, Auroville**  
&

coordinated by **NAAMS Architectural Workshope, Bangalore**



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