




Gangadhar Meher University
Amruta Vihar, Sambalpur, Odisha, 768004

4.3.3 Institution has the following Facilities for e-content and other resource development

1. Audio-visual center, mixing equipment, editing facilities, and media studio
2. Lecture Capturing System (LCS)
3. Central Instrumentation Center
4. Animal House
5. Museum
6. Business Lab
7. Research/statistical database
8. Moot court
9. Theatre
10. Art gallery
11. Any other facility to support research: Data Analytics Lab

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1. Audio-visual Center





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Mixing Equipment and Editing Facilities




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2. Lecture Capturing System (LCS)







List of software used for this purpose.




1. OBS (Open Broadcaster Software) is free and open-source software for video recording and live streaming. It is also used for video editing.
2. Windows 8 Operating System.
3. Audacity 3.2.0 for Recording audio recording, editing, and adding audio effects
4. Microsoft Office Word document editor.





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3. Central Instrumentation Center


Sl. No	Name of Equipment	Brief Description	Status/ location
	<p>Double beam-UV-VIS Spectrophotometer (UV-3200XE (LABINDIA))</p>  <p>(Purchased under RUSA fund)</p>	<ul style="list-style-type: none"> • Light source Xenon lamp, Photodiode detector • Wavelength range: 190-1100) nm. • 8 no of Cell holders • It is suitable for routine applications such as kinetics, wavelengthscan, quantitative analysis and DNA/Protein analysis etc. 	Working (In Botany laboratory)
2.	<p>Double beam- UV-Visible Spectrophotometer (AU-2703 (Systronics)) with thermostated cell compartment (peltier system)</p>  <p>Purchased under OURIIP project of Dr. Suprava Nayak</p>	<ul style="list-style-type: none"> • Light source: Tungsten Deuterium lamp • Wavelength range: 190-1100) nm. • 2 no of Cell holders • Working temperature = 15-60°C • It is suitable for routine applications such as kinetics, wave-length scan, quantitative analysis and DNA/Protein analysis etc. 	Working (In room no 52)

3	<p>Fluorescence Spectrophotometer F-7000 (HITACHI): (Purchase under RUSA grant)</p> 	<ul style="list-style-type: none"> • High S/N: 800 (RMS), 250 (Peak to Peak) • High-Speed Scan at 60,000 nm/min • Measurement of fluorescent materials, • Phosphorescence measurement, • FRET (Fluorescence Resonance Energy Transfer) • BRET (Bioluminescence Resonance Energy Transfer) 	Working (Room no. 48)
4.	<p>FTIR- Spectrometer (ALPHA-II) Bruker</p>  <p>Purchased under RUSA Fund))</p>	<ul style="list-style-type: none"> • Measurement Range - 500-4000 cm⁻¹ • Used for Functional group detection • Both pallet and ATR mode of analysis possible • Samples such as liquids, powders, or pastes can be easily placed on the diamond ATR crystal and are analyzed in a matter of seconds. 	Working (Botany laboratory)
5.	<p>Hand operated Hydraulic Press</p>  <p>Purchased under RUSA Fund</p>	<ul style="list-style-type: none"> • For preparation of pellet to take IR spectrum. • Pressure can be applied manually • 	Working (Botany laboratory)

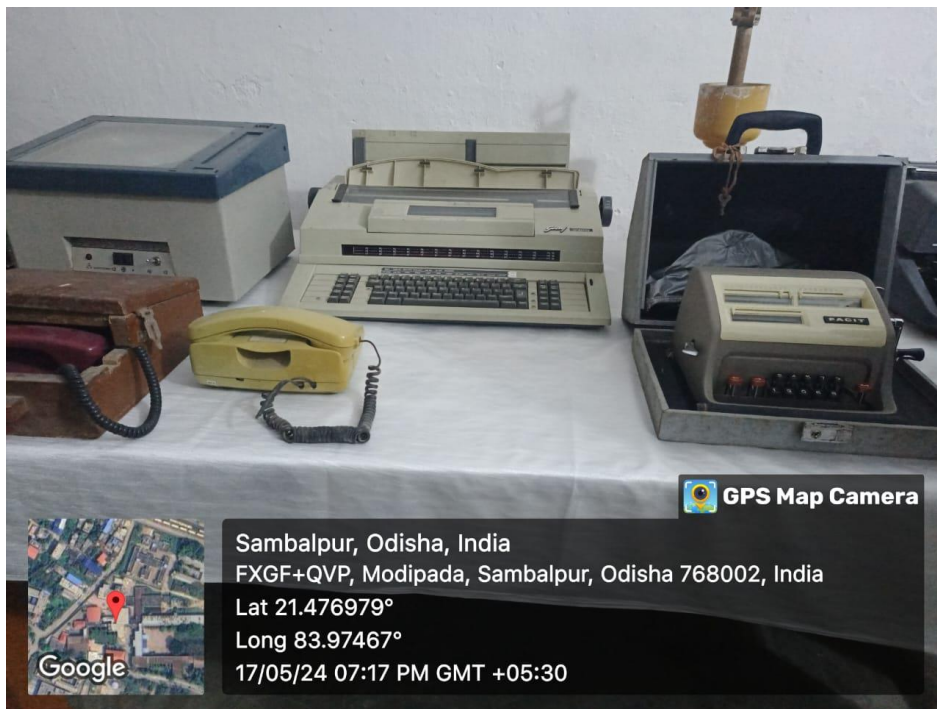
6.	Refrigerated Centrifuge Machine: 	<ul style="list-style-type: none"> • Programable Speed Regulator • Digital temperature controller cum indicator • Max speed 18000 rpm. 	Working (Botany laboratory)
7.	Centrifuge machine: (REMI) 	<ul style="list-style-type: none"> • Max Speed-5000 rpm • At room temperature 	Working (Botany laboratory)
8.	Laminar horizontal flow bench: 	<ul style="list-style-type: none"> • To release air, which is free from contaminants • To prevent contamination of biological samples or any particle sensitive materials. • 	Working (Botany laboratory)


9.	<p>Seed Germinator (Make-INISIF)</p> 	<ul style="list-style-type: none"> • Used for normal seed germination and for various other tests involving microorganisms, plants ,tissues etc 	Working (Botany laboratory)
10.	<p>Muffle Furnace</p>  <p>Purchased under OURIIP project of Dr.Pranati Purohit</p>	<ul style="list-style-type: none"> • Allows rapid high-temperature heating, • It isolates the samples from the fuel and the combustion to eliminate contamination of the samples. 	Working (Physics research lab)
11.	<p>Ball mill</p>  <p>Purchased under OURIIP project of Dr.Pranati Purohit</p>	<ul style="list-style-type: none"> • To grind or blend materials for use in mineral dressing processes, paints, pyrotechnics, ceramics, and selective laser sintering. • Size reduction is done by metal balls • 	Working (Physics research lab)

12.	Ultrasonic Cleaner 	<ul style="list-style-type: none"> • It uses high-frequency, high-intensity sound waves in a liquid to facilitate or enhance the removal of foreign contaminants from surfaces submerged in an ultrasonically activated liquid. 	Working (Physics research lab)
13.	Single distillation unit 	<ul style="list-style-type: none"> • A water distiller is a machine that purifies water by removing more than 99.9% of contaminants, including chemicals, heavy metals, microorganisms and sediment. 	Working (Chemistry lab for PG)
14.	Hot Air Oven 	<ul style="list-style-type: none"> • Hot air ovens is used to dry heat (hot air mixture) for sterilization of laboratory equipment • Temperature adjustment through control knob. • Digital display of temperature. 	Working (Physics research lab)

15.	<p>V.D.R.L Shaker</p> 	<ul style="list-style-type: none"> • Type of movement- Rotational • Speed range is 70 - 210 RPM. • Speed can be controlled through variable speed regulator knob. 	<p>Working (Physics research lab)</p>
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4. Museums
Business Musuem





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Museum in School of History





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5. Business Lab

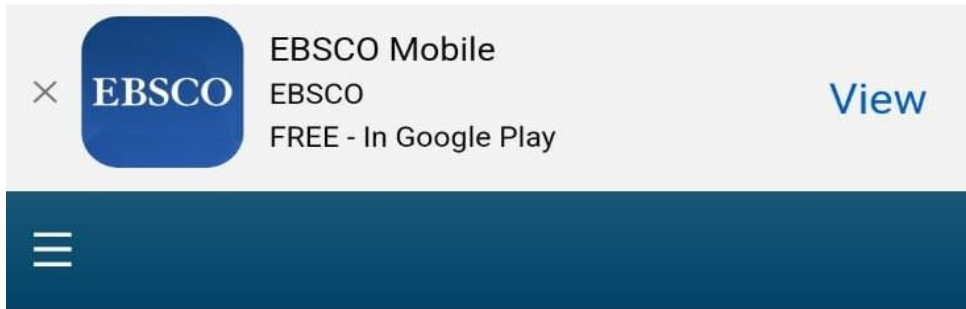


Business Lab of School of Commerce


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6. Research/statistical Database



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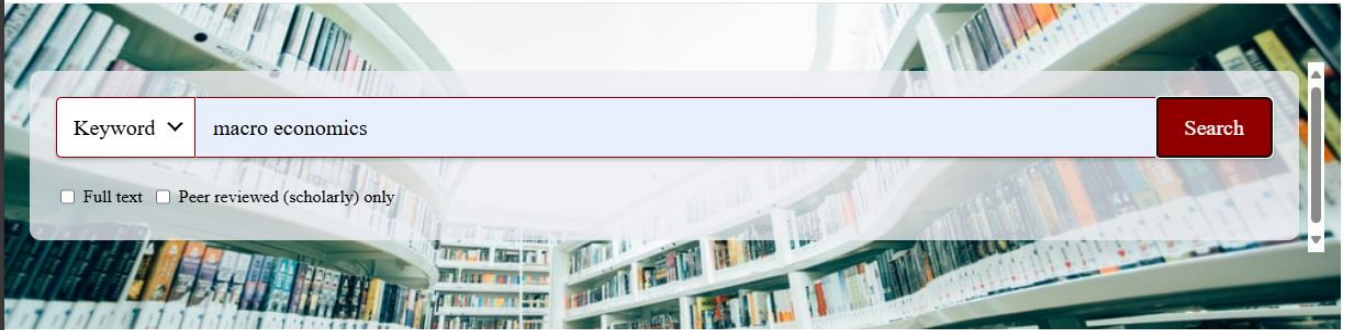
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7. Moot Court

ଜିଏମୟୁ ବାଣିଜ୍ୟ ବିଭାଗରେ ମୁଟ୍ କୋର୍ଟ

ସମ୍ବଲପୁର, ୬/୧୨(ବିଟି): ଗଙ୍ଗାଧର ମେହେର ବିଶ୍ୱବିଦ୍ୟାଳୟ ବାଣିଜ୍ୟ ବିଭାଗ ପକ୍ଷରୁ ବୁଧବାର 'ମୁଟ୍ କୋର୍ଟ' ଉପରେ ଏକ ସ୍ୱତନ୍ତ୍ର କାର୍ଯ୍ୟକ୍ରମ ଅନୁଷ୍ଠିତ ହୋଇଯାଇଛି । ବହୁ ପ୍ରତୀକ୍ଷିତ ଭୋଡ଼ାପୋନ୍ ଓ ଭାରତୀୟ ଆଇନ ବିଭାଗ ମଧ୍ୟରେ ହୋଇଥିବା କେସ୍ ସଂପର୍କିତ ବିଷୟ ବସ୍ତୁ ଉପରେ ଆଲୋଚନା କରାଯାଇଥିଲା । ଏଥିରେ ଜଜ୍ ଭାବେ ସ୍ୱାତନ୍ତ୍ର ବାଣିଜ୍ୟ ବିଭାଗର ଶେଷ ବର୍ଷର ଛାତ୍ର ରାଜ ଅଭିଷେକ ସିଂହ, ଭୋଡ଼ାପୋନ୍ କମ୍ପାନୀର ଓକିଲ ଭାବେ ଓମ୍ ପ୍ରକାଶ, ସତ୍ୟବ୍ରତ ଏବଂ ମାନସ ଓ ଭାରତୀୟ ଆଇନ ବିଭାଗର ଓକିଲ ଭାବେ ଶିବାନୀ ସିଂହ ଉପସ୍ଥିତ ରହିଥିଲେ । ଶେଷରେ ଜଜ୍ ଶୁଣାଣି କରିଥିଲେ ଯେ ଭୋଡ଼ାପୋନ୍ କମ୍ପାନୀ ଭାରତୀୟ ଆଇନ ବିଭାଗକୁ ଆଇଁ ଦେବା ପାଇଁ ବାଧ୍ୟ । ଏହି ଅବସରରେ ବିଭାଗୀୟ ମୁଖ୍ୟ ଡଃ ପ୍ରିୟବ୍ରତ ପଣ୍ଡା, ଅଧ୍ୟାପକ ମଧ୍ୟରେ, ଶ୍ରୀମୁକ୍ତ ସୁବାସ ଝଙ୍କାର, ଶୁଭେଚ୍ଛା ନାୟକ, ଝଂସି ରାଣା, ଗବେଷକ ମାନଙ୍କ ମଧ୍ୟରେ ସତ୍ୟ ରଞ୍ଜନ ଗାଡୁ, ଅର୍ଚ୍ଚନ କୁମାର ମହାରଣା ସହଯୋଗ କରିଥିଲେ ।





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8. Theatre




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9. Art Gallery





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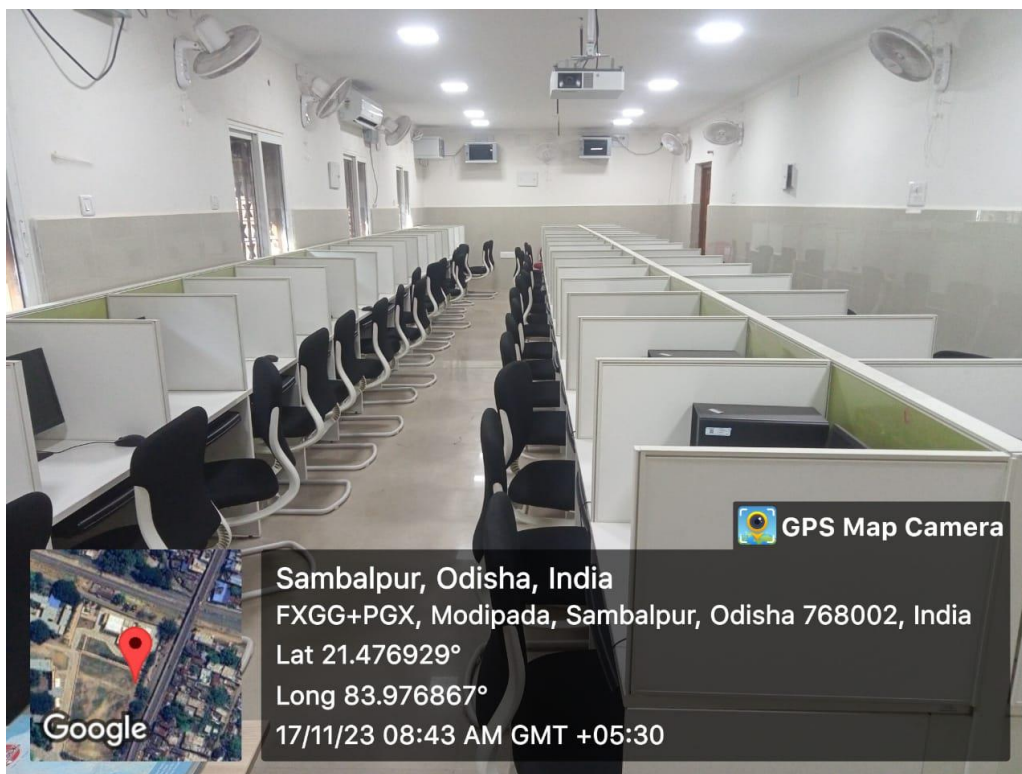
10. Creche





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11. Any other facility to support research: Data Analytics Lab




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12. List of e-content Developed

MCO- 403/OSOU

ODISHA STATE OPEN UNIVERSITY, SAMBALPUR

Programme Name: **Master of Commerce (M.Com)** Programme Code: **MCO**
Course Name: **RESEARCH METHODOLOGY** Course Code: **MCO 403**
Semester: **IV** Credit: **4** Block No. **1 to 4** Unit No. **1 to 16**

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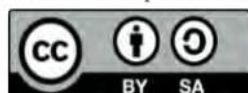
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