



RESEARCH HANDBOOK

AJAY BINAY Institute of Technology
Cuttack, Odisha-753014

Research and Development

❖ Research Home

Research is the backbone of academics. It simplifies concept building and transforms new ideas into innovations in pursuance of a new era of passion for researches. Each finding gives immense pleasure and multiplies enthusiasm towards achieving the target. A research and development job allows graduate engineers to use their skills to push the frontiers of science forward. The aim of research and development (R&D) is to improve the current technologies offered by an organization or to develop innovations that strengthen the organization's position in the marketplace.

The aim of the research and development cell (R&D) is to improve the current technologies offered by an organization or to develop innovations that strengthen the organization's position in the marketplace. In view of this, the Research and Development Cell of ABIT aims to nurture research culture by promoting research in newly emerging and challenging areas. It encourages the students and faculty to undertake research in newly emerging frontier areas of Engineering, Technology, Management, Science, and Humanities including multidisciplinary fields. This enhances the general research capability of budding technocrats by way of participating in conferences, seminars, workshops, project competitions, etc.

Vision

To be the best Institution by conducting world-class research, Innovation in cutting-edge technologies, and creative activities that develop knowledge and contribute to the economic growth and social advancement of the nation and benefit of Society.

Mission

- To develop and expand innovative research programs that align well with institutional mission and strategic plan, address important national and global needs, and through technology transfer and commercialization noticeably support the economic development of the nation.
- To develop the culture and practice of innovation among the students and transform the innovative ideas into technologies, start-ups for creating students as innovators and entrepreneur
- To promote collaboration with other premier institutions, R&D organizations, and industries.

❖ OBJECTIVE AND OUTCOMES:

The Research and Development Cell is functioning with the following objectives:

1. To lead signature areas of research and economic development to drive breakthroughs that have societal impact, and enabling methods of publication.
2. To train under-graduate and PG students to become outstanding technical leaders and innovative researchers.
3. To generate momentum in paper publications by the association of students and faculties of “Centres for Applied Research (CAR)”.
4. To understand and introduce the concept of IP oriented product development and extend publications for patents and product.
5. To align academic activities in projects, internships and CAR activities in outcome-based work resulting in patents and publications.
6. To coordinate writing proposals in multidisciplinary research grants basically in identified research areas.
7. To maintain a good number of research proposals to be submitted by faculty members as PI's and co-PIs.
8. To decide good number of research and undergraduate student training proposals in targeted research areas.
9. To identify, monitor, and address barriers to student success.
10. To provide pre- and post-award support.
11. To develop a mechanism for broad appreciation of disciplinary and/or interdisciplinary research contributions from faculty, staff, and students.

Mechanism:

1. Support a collegiate culture in which all faculty, staff, and students advance the research mission through their pursuit of excellence.
2. Maintain and enhance our leadership position on campus and beyond when confronting the grand challenges of the 21st Century
3. Enhance the quality, size, and diversity of the student body while focusing on their success.

STRATEGIES:

The Institute develops strategies in the following strategic focus areas

- ❖ Motivate the faculty members and students to publish papers in Journals and Conferences

- ❖ Motivate the faculty to file patents
- ❖ Motivate the faculty members to do consultancy work
- ❖ Organise conferences/seminars/workshops
- ❖ Procure research funding by applying projects to funding agencies, Procure funding for conferences.

To promote research and development activities, the college extends its full support to students/faculty/staff. Full/Partial financial support is given to all innovative research & development works taken up by the students, faculty and staff members. The college encourages students, faculty, and staff to participate in National/International Conferences, Training Programs, and Tech-Festivals organized by reputed institutes (IITs/NITs/State Engineering Colleges etc.) by giving full/partial financial support.

❖ Guidelines for Awards & Incentives

Awards:

The special awards should be available for

- ❖ PhD completed faculties during the year.
- ❖ Faculties doing projects under Government grants
- ❖ Paper published in SCOPUS/SCI/ESCI Journals.
- ❖ PhD Guided during the year.

Incentives:

The incentives should be available for

- ❖ Faculties involved in projects with external funding.
- ❖ Faculty with publication in a journal (SCI/ESCI/SCOPUS/WOS/UGC) with the affiliation of ABIT subject to the approval of the Research committee, comprising of the Principal, Dean Academic, Research coordinator, and two subject experts.
 - (a) SCI / ESCI indexed Journals – INR 4,000
 - (b) Springer / Scopus indexed Journals – INR 3,000.
 - (c) WOS / UGC indexed Journals – INR 1,000.
- ❖ Attending FDP/STTP in the Institute of National Importance shall be provided with on duty + 50 % registration fee. (One faculty from each department may attain the FDP/SSTP at a time by the approval of the

Research committee comprising of the Principal, Dean Academic, Research coordinator, and HOD of the corresponding department)

❖ For the patent filing: Institute will take care of filling, Registration, and Examination for Patents, 50% of Registration fees will be paid by the institution.

Filing the copyright – Registration fee (50%)

❖ Authored Book/ Edited Book/ Book chapter with Scopus indexed.

International Publisher – INR 5,000

National Publisher – INR 3,000.

❖ Research Centres (Centre for Applied Research)

Research and Development cell of ABIT works on study and application of cutting-edge technologies as well as development of new solutions in science and engineering. The areas of research being undertaken at present, relate to the following technology areas in 07 Centres for Applied Research.

RESEARCH FIELD	OBJECTIVE	KEY PERSON
Standards, governance, risk & compliance	<ul style="list-style-type: none"> ○ Exposing the students to be aware of international standards of process, governance and industry Practices (ISO/CMMI). ○ Practice to use of tools and technologies for software development, Testing and quality management. ○ To provide the basic knowledge of risk managements ○ To understand the core concept of information security ○ To gain practical exposure and hands on experience using tool driven Agile platform. 	Dr. Rajesh Kumar Sahoo Dr. Chinmay Ranjan Pattnaik
Automation & robotics	<ul style="list-style-type: none"> ○ Embedded Intelligent System ○ Smart Things for Smart City ○ Intelligent Factory Automation ○ Autonomous Vehicles (AIVs) ○ Robotic Arms & control systems Wireless sensors & its connectivity. 	Er. Debakanta Behera
Composite & nanomaterials	<ul style="list-style-type: none"> ○ To address the current challenges and issues in Advanced Composites Technology ○ To Foster and strengthen the industry interactions in the area of Advanced Composites ○ To develop innovative processes in achieving low cost high quality Advanced Composites. 	Dr. Manoj Kumar Praharaj Dr. Deepak Kumar Jesthi Dr. Narsingh Deep. Er. Monalisha Satapathy
	<ul style="list-style-type: none"> ○ Introduction on Data Science, AI related mathematics and Python language 	

<p>Data science & artificial intelligence</p>	<ul style="list-style-type: none"> ○ Applied statistics, probability and time series analysis ○ Machine learning: supervised and unsupervised learning ○ Text detection and their conversions. ○ Image processing in object identification. ○ An email spam filter, ○ Estimates the value of a house, ○ predict sales on a new product based on previous sales data, ○ Predicting mileage of a car bases on feature selection, ○ Police review a large photo gallery for a missing person, self-driving cars prepare to identify objects in their way. 	<p>Dr. Amaresh Sahu</p>
<p>Design & prototyping</p>	<ul style="list-style-type: none"> ○ Instill the culture of critical, creative and collaborative thinking among the students and faculties to develop sustainable design. ○ Impart necessary design skill to transform idea into tangible/intangible outcome. ○ Practice to put the locally available materials and components into different prototypes. ○ Convert promising prototypes into commercial products 	<p>Er. Chinmay Das</p>
<p>Energy efficiency & sustainability</p>	<ul style="list-style-type: none"> ○ Application of latest technologies for cost-beneficial energy-efficient sources. ○ Application of new technologies, tools and strategies to make distributed generation more affordable. ○ Impart creative, innovative and collaborative thinking practice among the students and faculties to design and develop energy efficient and sustainable sources and their optimal use to solve different national and global issues. ○ Develop operational tools, models and simulations that optimize the benefits of plugin Electric Vehicles to the Electricity System. 	<p>Er. Debayani Mishra</p>
<p>Marketing & social research</p>	<ul style="list-style-type: none"> ○ To understand the nature and scope of Market Research and Social Research. ○ To provide adequate knowledge on Conceptual Research and Applied Research. ○ Exposure to different statistical packages and analytical tools. ○ To identify and formulate Social / Marketing problems from a research perspective and provide inferences or solutions for the same. ○ Enable students to design and implement successful marketing strategies and programs. 	<p>Dr. Shree Kanungo</p>

❖ Research Resources

1. Highly qualified & skilled faculty members and technicians.
2. E-Library with Subscription of reputed Journals and e-books.
3. Library with Books, Journals, Magazines, and Newspapers.
4. Infrastructure

A. Well-equipped **Ultrasonic Laboratory** in R&D Cell, with

- i) Multi-frequency ultrasonic interferometer, Model: M-84, Make: Mittal Enterprises, New Delhi, India.
- ii) High precision temperature control bath, Model: SSI-03SPL, Make: Mittal Enterprises, New Delhi, India.
- iii) Digital Conductivity meter, Model: 611, Hindustan Scientific linkers, Cuttack, Odisha
- iv) High precision Balance, Model: KD-150
- v) Oswald Viscometer.

B. Well-equipped **Nano Technology Laboratory** in R&D Cell with

- i) Probe Sonicator with multi frequency probe
- ii) Magnetic stirrer.

C. Well-equipped **Testing Laboratory** in Mechanical Department, with

- i) Universal Testing Machine: model: UTN, 20, Capacity 200 KN, Make - Fuel Instruments & Engineers Pvt Ltd, Maharashtra.
- ii) Impact testing machine: Model: I-30, Capacity-300 J, Make - Fuel Instruments & Engineers Pvt Ltd, Maharashtra.

D. Well-equipped **Material Testing laboratory** in Civil Department, with

- i) Specific gravity bottle
- ii) Vicat apparatus
- iii) Weighing balance (10 kg , 100 kg)
- iv) Slump cone apparatus
- v) Compaction factor apparatus
- vi) Flow table apparatus
- vii) Baby concrete mixture
- viii) Vibrating table
- ix) Cube mould
- x) Cylinder mould
- xi) Beam mould
- xii) Compression testing machine
- xiii) Flexural testing machine
- xiv) Prism test apparatus.

E. Well-equipped Geotechnical Laboratory in Civil Department, with

- i) C.B.R apparatus motorised
- ii) Direct shear test apparatus
- iii) Triaxial testing apparatus
- iv) Liquid limit apparatus
- v) Sieve shaker (Hand operated)
- vi) Cone penetrometer apparatus
- vii) Plastic limit apparatus
- viii) Shrinkage limit apparatus
- ix) Core cutter with dolly and rammer
- x) Sand pouring cylinder
- xi) Standard and modified proctor test apparatus
- xii) Pycnometer
- xiii) Vane shear test apparatus
- xiv) Brass sieve
- xv) Unconfined compression test apparatus
- xvi) Digital oven
- xvii) Constant and falling head apparatus
- xviii) Sampling Auger
- xix) Fixed ring odometer
- xx) Digital weighing balance (20 kg)
- xxi) Specific gravity bottle.

F. Well-equipped Transportation engineering laboratory in Civil Department

- i) Crushing value apparatus
- ii) Los Angeles abrasion testing machine
- iii) Impact value testing machine
- iv) Ductility testing apparatus
- v) Digital weighing balance (100 kg , hanging)
- vi) Penetrometer
- vii) Stripping value testing apparatus
- viii) Ring and Ball apparatus
- ix) Marshall testing apparatus.

G. Computer centre with updated systems and good internet facility.

❖ **Research (Ph.D) Supervisors**

2023-2024: Number of PhD Supervisors = 04

1. Dr. Leena Samantaray (Department of ENTC)
2. Dr. Rajesh Kumar Sahoo (Department of CSE)
3. Dr. Abhiram Satapathy (Department of PHYSICS)
4. Dr. Manoj Kumar Praharaj (Department of PHYSICS)

2022-2023: Number of PhD Supervisors = 02

1. Dr. Leena Samantaray (Department of ENTC)
2. Dr. Rajesh Kumar Sahoo (Department of CSE)
3. Dr. Abhiram Satapathy (Department of PHYSICS)

2021-2022: Number of PhD Supervisors = 02

1. Dr. Leena Samantaray (Department of ENTC)
2. Dr. Rajesh Kumar Sahoo (Department of CSE)

2020-2021: Number of PhD Supervisors = 02

1. Dr. Leena Samantaray (Department of ENTC)
2. Dr. Rajesh Kumar Sahoo (Department of CSE)

2019-2020: Number of PhD Supervisors = 01

1. Dr. Leena Samantaray (Department of ENTC)

❖ **Research Scholars Continuing / Pursuing PhD. (Total = 11)**

Academic Year.	Name of Scholar	Enrolment No.	Discipline	Supervisor	Co-Supervisor
2023 - 2024	Santosh Kumar Pandav	DSW05001/ 22.02.2024	PHYSICS	Dr. Manoj Kumar Praharaj	Dr. Abhiram Satapathy
	Smruti Ranjan Dash	DSW01013 /03.02.2024	CSE	Dr. Aswini Kumar Mohanty	Dr. Rajesh Kumar Sahoo
	Epari Madhusmita Patra	DSW05003 / 03.02.2024	CSA	Dr. Rajesh Kumar Sahoo	Dr. Leena Samantaray
	Sunita Panda	DSW01012 / 03.02.2024	CSE	Dr. Aswini Kumar Mohanty	Dr. Rajesh Kumar Sahoo
	Amalendu Bag	DSW01014 / 03.02.2024	CSE	Dr. Aswini Kumar Mohanty	Dr. Rajesh Kumar Sahoo
	Santosh Kumar Sahu	DSW01011 / 03.02.2024	CSE	Dr. Rajendra Prasad Nayak	–
	Annapurna Sahoo	DSW01006 / 03.02.2024	ETC	Dr. Leena Samantaray	–
2022-2023					
2021-2022					
2020-2021	Shiba Prasad Dash			Dr. Rajesh Kumar Sahoo	
2019-2020	Tapashi Das			DR. Anil Kumar Mishra	
2019-2020	Sonam Panden Barfungpa			Dr. Leena Samantaray	

❖ Research Facilities

- Seven numbers of Centre for Advanced Research (CAR)
- Classes allotted for students with different groups
- Research and Development cell is open up to 5.00 pm for faculties and students, to use the facilities.
- Incentives are given to faculties for publication, attaining Seminar, conference, workshop etc.

❖ Research Papers / Publications

Academic year	No. Of Scopus / SCI indexed Journal	No. Of UGC approved Journal	No. of Referred Journal	Total number of Paper published
2022 - 2023	8	4	12	24
2021 - 2022	10	8	5	23
2020 - 2021	16	6	7	29
2019 - 2020	8	8	10	26
2018-2019	13	4	7	24
Grand Total				

❖ Books / Book Chapters / Conferences / Seminars

Academic year	National Publisher	International Publisher
2022 - 2023	09	19
2021 - 2022	05	05
2020 - 2021	01	18
2019 - 2020	05	09
2018-2019	04	15

❖ International /National Conferences (Co-Hosted)

International Conferences : 01
National Conference : 03
STTP : 02

Academic year	National	International
2022 - 2023		
2021 - 2022		
2020 - 2021		
2019 - 2020		
2018-2019		

❖ Research Projects and Grants

Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the last five years (INR in Lakhs)

Name of the research project/ endowment	Name of the Principal Investigator /Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned (INR in Lakhs)	Duration of the project	Name of the Funding Agency	Type (Government /non-Government)
2022 - 2023							
IoT Automation and Industrial Control	Prof. Durgamadh ab Swain	Electrical Engineering	2022 -23	2 Lakhs	1 Year	CEREBRONICS TECHNOLOGY PVT. LTD.	Non-Government
Combined Defence Service Examination	Dr. Bichitrananda Guru	Chemistry	2022 -23	0.97 Lakhs	1 Year	Union Public Service Commission	Government
Chartered Accountant Examination				1.6 Lakhs		Institute of Chartered Accountants of India	Government
Company Secretary Examination				0.46 Lakhs		ICSI, New Delhi	Government
Civil Services Preliminary Examination				0.98 Lakhs		Union Public Service Commission	Government
Post Graduate Teachers Examination				0.41 Lakhs		Odisha Public Service Commission	Government
Central Armed Police Forces Examination				0.74 Lakhs		Union Public Service Commission	Government
Combined Defence Service Examination				1 Lakhs		Union Public Service Commission	Government
Chartered Accountant Examination				1.8 Lakhs		Institute of Chartered Accountants of India	Government
Company Secretary Examination				0.34 Lakhs		ICSI, New Delhi	Government

Indian Engineering Services Examination				0.74 Lakhs		Union Public Service Commission	Government
RPF Police Constable Examination				0.42 Lakhs		Railway Police	Government
Synthesis and Charecterization of Nano-composites for different Industrial applications.	Dr. Manoj Kumar Praharaj	Physics	2022-23	5 Lakhs	3 Years	ABIT-PMCA Cuttack	Non-Government
2021 - 2022							
Image recognition & classification with satellite image Enhancement	Dr. Amresh Sahoo, Sareeta Mohanty	Computer Sc. & Engg.	2021-22	5 Lakhs	2 Years	MAPSCOPE Pvt. Ltd., Bhubaneswar	Non-Government
Developing Data Analysis & Machine learning techniques for condition management of electronic equipment	Dr. Amaresh Sahu	Master of Computer Applications	2021-22	1.5 Lakhs	1 Year	BeamX TechLabs Pvt. Limited, Hyderabad	Non-Government
Combined Defence Service Examination	Dr. Bichitrananda Guru	Chemistry	2021-22	0.96 Lakhs	2 Year	Union Public Service Commission	Government
2020 - 2021							
Innovative Use of GIS in Governance Risk and Compliances	Dr. Rajesh Sahoo	Computer Sc. & Engg.	2020-21	10 Lakhs	1 Year 8 Months	SPARC Pvt. Ltd, Bhubaneswar	Non-Government
STTP ON Advances in Materials and Machining (AMM-2020) in 3 phases	Dr. Dipak Kumar Jesthi	Mechanical Engg.	2020-21	3.18 Lakhs	1 Year	AICTE, New Delhi	Government
STTP UNDER AQIS	Dr. Shree Kanungo	MBA	2020-21	3.19 Lakhs	1 Year	AICTE, New Delhi	Government
2019 - 2020							
FDP ON SMART GRID- CHALLENGES & OPPORTUNITIES	Prof. Durgamadh ab Swain	Electrical Engg.	2019-20	2.455 Lakhs	1 Year	TEQIP-III,BPUT, ODISHA	Government
Industrial Talk on 5G: Connecting Everything	Dr. Shubhalaxmi Mohapatra	Electronics & Telecomm. Engg.	2019-20	2.04 Lakhs		TEQIP-III,BPUT, ODISHA	Government
Workshop on "IIoT & Industry 4.0"	Ch. Prasanjit Nanda	Electronics & Telecomm. Engg.	2019-20	3.15 Lakhs		TEQIP,BPUT,ODISHA	Government
SDP on Recent advances, Issues	Dr. Leena Samantaray	Computer Sc. & Engg.	2019-20	3.305 Lakhs		TEQIP,BPUT,ODISHA	Government

& challenges in IOT & AI							
Latest Trends in Mechanical Engg, LTME-2020	Dr. Dipak Kumar Jesthi	Mechanical Engg	2019-20	2.3 Lakhs		BPUT, Odisha	Government
HR consultancy	Dr. Shree Kanungo	MBA	2018-19	1 Lakh	1 Year	BeamX TechLabs Private Ltd	Non-Government

❖ Intellectual Property Assets

Patents Published : 14

Academic year	PATENT Published	PATENT Granted
2022 - 2023	3	0
2021 - 2022	7	0
2020 - 2021	4	0
2019 - 2020	0	0
2018-2019	0	0

❖ MOUs, Research Funding, Research Grants received from Govt. or Non-Govt. Agencies.

Sl. No.	Name of the MoU / Collaboration / linkage	Name of the collaborating agency / institution / industry / corporate house with whom the MoU / collaboration / linkage is made, with contact details	Year of signing MoU/ collaboration/ linkage	Duration of MoU / collaboration / linkage
1	Research & Development work	ESSKAY Enterprises, Khurda, Bhubaneswar-751024	2023	5 years
2	Training, Internship & Project work	Java Technocrat, Saheed Nagar, Bhubaneswar, Odisha 751007	2023	1 Year
3	Training, Internship & Project work	Ashirbad Consultancy, Cuttack, Odisha, 753010	2023	1 Year
4	Training, Internship & Project work	Soft Tech Pvt. Ltd., Cuttack, Odisha, 753004	2023	1 Year
5	Centre of Excellence in Automation & IoT	Kemsys Technologies, Bangalore	2023	02 Years
6	Mentoring academic interventions for technological research & innovation	CSIR-Institute of Minerals & Materials Technology (IMMT)- InTEC, Bhubaneswar, Odisha	2022	5 Years
7	Internship and Project Assistance	Anvi Anaya Engineering & Construction, Cuttack, Odisha	2022	1 Year
8	Research & Development work	Oltron Technology, Nayapalli, Bhubaneswar, Odisha 751015	2022	3 years
9	Entrepreneurship & Start Ups Developments	OASME COUNCIL FOR ENGINEERING&TECHNOLOGY	2022	2 years

		(ACURATE), Satya Bhawan, Industrial Estate, Cuttack, Odisha		
10	Research & Development work	Prativa Software, Cuttack, Odisha	2022	5 Years
11	Research & Development work	Dayanidhi Enterprises, Cuttack, Odisha	2022	5 Years
12	Internship & Project work	Soft Tech Pvt. Ltd., Cuttack, Odisha, 753004	2022	1 Year
13	Internship & Project work	Java Technocrat, Saheed nagar, Bhubaneswar, Odisha	2022	1 Year
14	Training, Internship & Project work	Ashirbad Consultancy, Cuttack, Odisha, 753010	2022	1 Year
15	Training and Internship	Central Institute of petrochemicals Engineering & Technology, Bhubaneswar	2022	1 Year
16	Eastern Engineering, Industrial Estate, Madhupatna, Cuttack-753010	Eastern Engineering, Industrial Estate, Madhupatna, Cuttack-753010	2021	5 Years
17	PYTHONSOFT LLP, Bhubaneswar, Odisha	PYTHONSOFT LLP, Bhubaneswar, Odisha	2021	5 Years
18	Internship & Project work	Java Technocrat, Saheed nagar, Bhubaneswar, Odisha	2021	1 Year
19	Training and Internship	ECOLIZER VENTURES, Cuttack, Odisha	2021	1 Year
20	Internship & Project work	Soft Tech Pvt. Ltd., Cuttack, Odisha, 753004	2021	1 Year
21	Internship & Project work	Ashirbad Consultancy, Madhupatna Cuttack, Odisha	2021	1 Year
22	Research and Development in the Area of Computing and Image processing of Satellite Image.	MAPSCOPE Pvt. Ltd, Infocity, Bhubaneswar	2021	2 Years
23	Center of excellence in GIS & Remote sensing	SPARC Pvt. Ltd., Bhubaneswar, Odisha	2021	2 Years
24	Technology Incubation, Consultancy work	BeamX TechL Labs Private Limited, Hyderabad, Telangana 500034	2021	2 years
25	Internships & Training programs	Orissa Engineering Udyog Pvt. Ltd., Cuttack	2021	5 years
26	Internship and Project Assisstance	Anvi Anaya Engineering & Construction, Cuttack, Odisha	2021	1 Year
27	To promote and facilitate research & teaching	Social Planning Council of Peel (SPCP), Mr. Srimanta Mohanty, CEO, Address - 386 Watline Avenue, Mississauga, Ontario, Cananda	2020	2 years
28	Internships & Training programs	Ashirbad Consultancy, Madhupatna, Cuttack, Odisha	2020	1 year
29	Internships & Training programs	Softech, College Square, Cuttack, Odisha 753003	2020	1 year
30	Internships & Training programs	Java Technocrat, Saheed Nagar, Bhubaneswar, Odisha 751007	2020	1 year
31	R & D Activities	K-InfoTech & Engineering Services, Delta Square, Bhubaneswar	2020	5 Years

32	Capability building on technologies	Cerebrionics Pvt.Ltd, Bengaluru, Karnataka	2019	2 years
33	Internship and Industrial Project for the Students	Udvaban Technologies Pvt.Ltd., Bidyadharpur, Cuttack-753006, E-mail: ezibeesh8@gmail.com	2019	5 years
34	MOU for Internship	Central institute of plastic engineering & technology, govt. of india, bhubaneswar	2019	1 Year
35	Internships, Project & Training programs	Ashirbad Consultancy, Madhupatna Cuttack, Odisha	2019	1 year
36	Internships, Project & Training programs	Softech, College Square, Cuttack, Odisha 753003	2019	1 year
37	Internships, Project & Training programs	Java Technocrat, Saheed Nagar, Bhubaneswar, Odisha 751007	2019	1 year
38	To promote and facilitate research & internship	KUBIK Design Solutions, Bhubaneswar, Odisha	2019	1 year
39	To promote and facilitate research & internship	ARACHIS ZEPPELIN SERVICES PRIVATE LIMITED, Cuttack, Odisha	2019	1 year
40	Research & Development	Oltron Technology, 52, near CRPF Square, N1, Block N1, IRC Village, Nayapalli, Bhubaneswar, Odisha 751015	2019	3 years
41	Internships, Project & Training programs	Ashirbad Consultancy, Madhupatna Cuttack, Odisha	2019	1 year
42	Internships, Project & Training programs	Softech, College Square, Cuttack, Odisha 753003	2019	1 year
43	Internships, Project & Training programs	Java Technocrat, Saheed Nagar, Bhubaneswar, Odisha 751007	2019	1 year
44	Technology Incubation, Consultancy work	BeamX TechLabs Private Limited, Hyderabad, Telangana 500034	2019	2 years
45	Internship and Industrial Project for the Students	Aether Innovations Pvt.Ltd., Bhawani Enclave-2, Cuttack-753014	2019	5 years
46	Exchange of academic information & material	Mahansaim Educational Institute (College), Dr. Ha Tae Hyun, Vice-Chancellor, Off Thika Road P.O Box 57329-00200, Nairobi, Kenya	2018	1 year
47	Internships, Project & Training programs	Ashirbad Consultancy, Madhupatna Cuttack, Odisha	2018	1 year
48	Internships, Project & Training programs	Softech, College Square, Cuttack, Odisha 753003	2018	1 year
49	Internships, Project & Training programs	Java Technocrat, Saheed Nagar, Bhubaneswar, Odisha 751007	2018	1 year
50	Training and Internship	SHREE ACHYUTANANDA CONSTRUCTION PVT. LTD, Cuttack	2018	5 Years
51	Training and Internship	SP CONSTRUCTION, Cuttack	2018	5 Years
52	Training and Internship	Real Align Engineering, Cuttack	2018	5 Years
53	Training & Internship	INTERFACE SOFTWARE, Sahid Nagar, Bhubaneswar, Odisha	2018	6 year

❖ Research Advisory and Research Ethics Committee

The institution has a research and development committee to facilitate and monitor research activities.

Academic Year: 2022-2023

Sl. No.	Name and Designation	Designation	Position
1	Dr. Leena Samantaray,	Principal	Chairman
2.	Dr. P. K. Pany,	Dean, Academic.	Member
3.	Dr. B. N. Guru,	Dean Operation.	Member
4.	Dr. Manoj Kumar Praharaj	Faculty, Physics	Coordinator
5	Dr. R. K. Sahoo	Faculty, CSE	Member
6	Dr. D. K. Jesti	Faculty, Mechanical	Member
7	Dr. C. R. Pattanaik	Faculty, CSE	Member

Academic Year: 2021-2022

Sl. No.	Name and Designation	Designation	Position
1	Dr. Leena Samantaray,	Principal	Chairman
2.	Dr. P. K. Pany,	Dean, Academic.	Member
3.	Dr. B. N. Guru,	Dean Operation.	Member
4.	Dr. Manoj Kumar Praharaj	Faculty, Physics	Coordinator
5	Dr. R. K. Sahoo	Faculty, CSE	Member
6	Dr. D. K. Jesti	Faculty, Mechanical	Member
7	Dr. C. R. Pattanaik	Faculty, CSE	Member

Academic Year: 2020-2021

Sl. No.	Name and Designation	Designation	Position
1	Dr. Leena Samantaray,	Principal	Chairman
2.	Dr. P. K. Pany,	Dean, Academic.	Member
3.	Dr. B. N. Guru,	Dean Operation.	Member
4.	Dr. Manoj Kumar Praharaj	Faculty, Physics	Coordinator
5	Dr. R. K. Sahoo	Faculty, CSE	Member
6	Dr. D. K. Jesti	Faculty, Mechanical	Member
7	Dr. C. R. Pattanaik	Faculty, CSE	Member

Academic Year: 2019-2020

Sl. No.	Name and Designation	Designation	Position
1	Dr. Leena Samantaray,	Principal	Chairman
2.	Dr. P. K. Pany,	Dean, Academic.	Member
3.	Dr. B. N. Guru,	Dean Operation.	Member
4.	Dr. Manoj Kumar Praharaj	Faculty, Physics	Coordinator
5	Dr. R. K. Sahoo	Faculty, CSE	Member
6	Dr. D. K. Jesti	Faculty, Mechanical	Member
7	Dr. C. R. Pattanaik	Faculty, CSE	Member

Academic Year: 2018-2019

Sl. No.	Name and Designation	Designation	Position
1	Dr. Leena Samantaray,	Principal	Chairman
2.	Dr. P. K. Pany,	Dean, Academic.	Member
3.	Dr. B. N. Guru,	Dean Operation.	Member
4.	Dr. Manoj Kumar Praharaj	Faculty, Physics	Coordinator
5.	Dr. C. R. Pattanaik	Faculty, CSE	Member

❖ NITI Aayog DARPAN

Registered in the Year 2022

Unique ID: OR/2022/0313301

❖ Plagiarism Checking tools

ABIT is a Nodal Centre of Biju Patnaik University of Technology, for PhD in Computer Science and Application. University supplied TURNITIN software to check plagiarism of Journal papers, Thesis as well as seminar/conference papers.

❖ Plan for academic year 2022-2023.

R&D plan for the year **2022-23**.

a. Mechanism to identify topics of publication and research for faculties as well as students

- i. Submission of paper to R&D cell for peer-reviewed.
- ii. Assessment by R&D cell
- iii. Submission to the journal by faculties/students.

- b.** Initiation of patentable Research work and process for developing on conceptual patent for product development
- c.** Institutional support for
 - i. publications – As per guidelines.
 - ii. product development - As per guidelines.
- d.** Target to each Department
 - i. Journal Paper- At least 04 papers (SCOPUS/SCI/ESCI) per annum.
 - ii. FDP – At least 01 per annum
 - iii. STTP – At least 01 per annum
- e.** Budget for R&D cell activities

Activities	Amount (INR)
Seminar	25,000
Conference	25,000
Workshop	25,000
Tour and Travel	10,000
Equipment	15,000
Maintenance	10,000
Contingency	10,000
Incentives	80,000
Total	2,00,000 (Two Lakhs)

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