

DR. ABHIJIT BISWAS

RESIDENCE: 3A, NILACHAL APARTMENT , 26/24/1, SAHEED SURYA SEN ROAD; BERHAMPORE; W.B.742101



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Overview

Accomplished professional, consummate academician with aggressive record of infrastructure development, achieving academic leadership, and restructuring processes. Served in Government Institute at top tier for long. Proven ability to work independently as well as collaboratively; learns quickly and enjoys challenges. Strengths in research and analysis with an ability to recognize and understand diverse viewpoints. Excellent student relations, possesses a positive work ethics having abilities in working with cross-cultural populations, with over 30 years of comprehensive large-scale administrative and academic experience in diversified project and schemes. Experience in emerging technologies, including multimedia, Internet, CAD, e-commerce and website development. Excellent communication talents; writing and oral presentation skills, with proven ability to build and lead highly efficient teams, to train technical personnel, and to convey complex concepts in understandable terms. Demonstrated experience in guiding roles to start-up and growth institutes. Results-oriented, decisive leader with proven success in problem identification, strategic thinking, and problem solving. Cultivated command presence and strong repertoire of cross-functional administrative knowledge and skills. Strong background in program development and academic quality assurance.

Core Professional Strengths

Problem analysis/ Project plan development, new Program development
Employee training, development, and supervision
Career and Mental Health Counseling /Empowerment Counseling
Student Training and Development
Accreditation Process planning
Large project handling
R&D Management
Relationship Building
Strategic Alliances
Concept of Government rules and regulations

Competencies:

Curriculum Development & Instruction
Extensive experiences in teaching prescribed full academic curriculum
Designed and implemented customized teaching programs to allow weaker students to be mainstreamed into the classroom.
Launched a highly successful peer tutoring program designed to improve interaction between upper-level and younger students while fostering communication and mentoring skills at all levels.

Administration & Special Activities

Appointed Officer-in-charge (i.e., Principal in charge), since 2012, with responsibility for a diversity of functions, including administration, management, infrastructure development, scheduling, curriculum development, discipline, parent/community affairs, special events planning etc.

Instrumental in NBA accreditation, prepared SAR's for NBA accreditation

Experienced in successfully working with engineering students and developing skills in students at all levels of achievement.

Utilize creative skills to design and implement well-received lesson plans and program structure. Establish learning environments which meet the physical, emotional, intellectual, social and creative needs of students.

Effectively counsel students and parents on goals, objectives and plans.

Significantly increased enrollment and student learning by implementing innovative programs.

Implemented a remedial and tutorial classes to interest students.

Planned numerous extracurricular activities.

Community & Public Relations

Built association with industries and developed a series of seminars to introduce students to the business world.

Coordinated speaker selection and topics of discussion.

Participated on cross-functional teams of educators and administrators to design programs to improve the quality of educational curricula, enhance parent and community relations, and increase student participation both inside and outside of the classroom.

Project Management

Spearheaded creative and targeted drives utilizing student-centric themes, plans and presentations that secured World Bank assisted TEQIP-II project and managed that successfully for 4 years with good utilization and target achievement only with a team of few teachers.

GENERAL INFORMATION

Name:	Abhijit Biswas
Date of Birth:	05-01-1957
Fathers Name	Late Ajit Biswas
Present Designation:	Officer-in-charge / Principal , GCETT Berhampore
Basic Department	Textile Technology
Place of Posting	Govt. College of Engineering & Textile Technology, Berhampore, W.B. 742101, India
Date of Joining the present service	24th Feb. 1986; as Lecturer in Textile Technology
Permanent Address:	Nilachal Abason, Flat no. 3A; 26/24/1, S.S. Sen Road; Berhampore, W.B. 742101
Industrial Experience	2 years
Teaching Experience	About 34 years

Academic Qualifications

Study/Research stage	Title of work / Thesis	University
B. Sc.(Tech)	Textile Technology (no specified undergraduate project)	Calcutta University, W.B. India
M.Tech (M.Text) 1984	Designing a Versatile Dielectric Instrument -A System Approach	M.D. University (TITS), India
Ph.D. 2004	Some studies on Unification of Winding Techniques and Programming Formats	Calcutta University, W.B. India

Teaching Experiences

Designation	Period
Officer-in-charge / Principal	From 29-09-12
Professor	From 01-010-09 -
Associate Professor	From 28-07-04- 01-010-09
Lecturer Selection Grade	27-07-98 to 28-07-04
Lecturer Senior	24-02-92 to 27-07-98
Lecturer	24-02-86 to 24-02-92

Teaching Learning and Evaluation Related Activities

Nature of activity	Details of the activity to be provided by the applicant
Lectures, seminars, Tutorials, practical, contact hours undertaken as percentage of lectures allotted	Teaching the subject of Fabric Formation (Weaving, Knitting, Non-woven, Braiding etc.) Soft computing applications, Mill Management etc. for the last 34 years.
Preparation and imparting of knowledge / instruction as per curriculum; And Syllabus enrichment by providing additional resources to students	Standard print media & multimedia prepared for instruction as per curriculum; Always provide extra media supplements to students specially animations and video clippings
Use of participatory and innovative teaching – learning methodologies; updating of subject content, course improvement etc	Always conduct classes in an interactive environment of laboratory. Special experience in Virtual classes.

Co-Curricular, Extension And Profession-Related Activities

Nature of activity	Details of the activity to be provided by the applicant
Student related	Always participated in every co-curricular, extension and field based activities of students. Actively guided the students in their curricular NSS activity also.
Consultancy and other activities related to industry –institute interaction.	1) Voluntarily engaged in providing technical know-how, advice and training help specially to the weavers of Tartipur Hariharpara, to upgrade their skills in diversification and sustenance of livelihood. 2) Some Knitters and garment producers of Kolkata and around. 3) Also, provide technical help to a small Textile producer of Murshidabad and a Knitting machine manufacturer of Ludhiana.
Contribution to management of the department and institution through participation in academic and administrative committees and responsibilities	1)Asstt. Hostel Super for 22 years. 2) Secretary F.C. for 6 terms; 3)Coordinator Syllabus committee (C.U., KU & WBUT,) 4) Shouldered responsibilities as convener/chairman of almost all administrative/academic committees formed in the college, 5) Examiners of different universities, Govt. Representative of Dumkal Engineering College, BOG member of MCET, Berhampore. 6)Project Referee of CSB Research projects, 7) G.B. & FMC member for two terms. 8) Head of TEQIP-II (World Bank Project), GCETTB 9) Coordinated MDROBS project of AICTE in the dept.
Professional Development activities (such as participation in seminars, conferences, short term training courses talks, lectures,	Attended seminars and workshops held in different colleges of this region, delivered invited talk in different colleges, presented papers in different seminars and workshops. Implemented Virtual platforms (Microsoft Team) for online academic activities. Arranged several online webinars.
membership of associations,	Life Member of ISTE, Life Member of Institution of Engineers and some other Professional bodies

RESEARCH AND RELATED CONTRIBUTIONS

RESEARCH PAPERS PUBLISHED

Title of the research paper published	Journal/Magazine/ Proceedings	Refereed/ non-refereed
a) Development of a Fuzzy Expert System for Cocoon Grading,	page-390-402, A. Biswas & A. Ghosh; Soft computing in Textile Engineering, Wood Head Publisher.U.K.,2011	NR
b) Solar electricity generator with automatic sun-tracking,	1979, August, Invention Intelligence, 321 - 322p.	NR

c) Environmental & Climate Change Issues in Textile Industry	Trends in Textile, Textile Association(India), W.B. Unit,61 st Anniversary Day Celebration, 10 th March,2012	CONF.
d) Fuzzy Logic for Textiles,	SDP, GCETTB; 2009	NR
e) Fractal Geometry and Optimization,	SDP, GCETTB; 2011	NR
f) Mechanisms of multiphase Weaving,	Indian Textile Journal, March, 1987, 72-77p	NR
g) ANOVA-a case Study;	Textile trend, Jan, 1 993,37-42p	NR
h) Post-Independence Development of Weaving Machinery and Technology in India and Its future,	12th National Convention of Textile Engineers on Indian Textile Panorama, Calcutta, 1 998	CONF.
i) A soft computing Approach to Estimation of Cotton fibre maturity from Micronaire,	NCUTE Workshop on instrumentation in Textile, GCETT-B, Serampore, W.B. 2003	CONF.
j) An Investigation on Physico-mechanical Behaviour of Acrylic Blended Friction Spun and Ring Spun Yarn,	Institution of Engineers Conference, Kolkata,2004	CONF.
k) Grading of Silk Cocoons Using Fuzzy Logic,	National conference on Emerging trends in Textile, fibre & Apparel Engineering, GCETT-Berhampore, W.B. March ,2006	CONF.
l) Application of Microprocessor in Textile Industry- a micro study,	Tech- Style, 1 988,27-30p	NR-M
m) Logistics in Textile Industry- the battle is for rationalisation,	Textile Technologist, 1992,61 -71 p.	NR-M
n) Computer Integrated Manufacturing of Textiles- the first look,	Textile Technologist, 1 989, 1 1 -1 6p	NR-M
SEMINAR & CONFERENCES , WORKSHOP , SUMMEER/WINTER SCHOOLS ATTENDED		
Name of of the Programme	Sponsoring Agency	Place and Date
SDP on Advanced Optimization Techniques and its Application in Textile Engineering	GCETT- Berhampore, W.B.	Berhampore, June'11
SDP on Artificial Intelligence Modelling & its Application in Textile Engineering	GCETT- Berhampore, W.B.	Berhampore, June'09
National Conference on Emerging Trends in Textile, Fibre & Apparel Engineering	GCETT- Berhampore, W.B.	Berhampore, March'06
National Seminer on Wool Industry Present Status and Future Development	GCETT- Berhampore, W.B.	Berhampore, Feb'03
Platinum Jubilee Seminer on Jute & Allied Industry	GCETT- Berhampore, W.B.	Berhampore, '03
Training Programme for Resource Persons on Instrumentation in Textiles	GCETT- Serampore, W.B.	Serampore'03
National Convention of Textile Engineers	Institution of Engineers	Kolkata,Jan'98
Teachers' Training Programme on Personal Computers	Jadavpur Univ.	Kolkata,July'1989
Intensive Course on Theory & Application of Microprocessors/ Microcomputers	Jadavpur Univ.	Kolkata,July'1986

RESEARCH GUIDANCE

Studies pertaining to undergraduate Projects

a) Determination Of Maturity By WIRA Fibre Fineness Meter-An Investigation; Calcutta University,1988, b) An approach on Computer Aided Inventory Control and Data Based Management; Calcutta University, 1989, c) Linear Programming in Mixing- A micro Study; Calcutta University, 1988, d) Linear Programming on Cotton mixing-A computer Oriented Generalized Approach; Calcutta University, 1989, e) Designing a Conversion Kit for Continuous Take -up motion; Calcutta University, 1990, f) Effect of Air Pressure in Jet weaving-An Investigation With Plied Weft; Calcutta University, 1990, g)Designing a Versatile Programmable Winding Machine-A System Approach; Calcutta University, 1991, h)Designing a Special Tensioner for Textured Yams; Calcutta University, 1992, i)A Critical Study for Multi-pede Traverse Mechanism for Warp Winding; Calcutta University.1996, j)Designing a Progressive Precision Winder-An Electro -pneumatic Approach; Calcutta University ,1997, k) Study of the Application of computer Systems in a Textile Mill; Calcutta University,! 1998, l)Some Studies on PLC based Monitoring system for Shuttle loom; Calcutta University ,1 999, m) Computer Aided Analysis of rotary Dobby; Calcutta University, 2000, n) Linear Programming in Cotton Mixing - A Computer oriented Generalized Approach; Calcutta University,2001,) o) Data Acquisition through PC serial Port for Automatic Calculation of Count and its variations, Calcutta University,2002, p) A soft computing Approach to Estimation of Cotton fibre Maturity from Micronaire, Univ. of Kalyani, 2003-04, q) Studies on optimization of shed geometry to reduce end breakage rate, WBUT.2006, r) Some Studies on the measurement of Drape by Image Analysis, Univ. of Kalyani, 2003, s) Characterization of Some Common Weaves by digital Image Analysis, WBUT, 2008, t) Studies on fibre Properties of Eri silk, WBUT.2008, u) Drape simulation of woven Fabric using Artificial Neural Network WBUT.2009, v) Studies of Tubular Fabrics made on Narrow Loom WBUT.2009, w) Some Studies on Crackle Weave,2010, x) Some Studies on Fractal Weave,2010; y) Studies on Fractal weave, WBUT 2011, z) Drape Measurement WBUT 2012, aa)Some Studies on Crackle Weave, WBUT 2012, bb) Studies on Grown Bio-textiles, WBUT 2012.

Studies pertaining to Postgraduate Projects:

- 1) Identification of Handloom and Power loom fabrics with image analysis
- 2) Microbial Cellulose based textile composites

Career Summary

- 34 years in teaching and research.
- 2 years in industry
- Subject matter expertise in textile fabric formation, soft computing, Fractal Geometry and Analysis, Protective clothing, bio-technology applications and general computer applications.


24-10-2020

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