



NORTH SOUTH UNIVERSITY

Research Foci

2020

NORTH SOUTH UNIVERSITY

Center of Excellence in Higher Education



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Research Foci

2020

Created by the Office of External Affairs, North South University

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Preface

NNSU has a renewed emphasis on research. We are exploring all avenues, and making a concerted effort to accelerate the pace of research. Since becoming the Vice Chancellor of North South University (NSU) in 2016, I have put an increased emphasis on research-related activities. This includes our global outreach to universities and research institutes for possible academic match-making by research interest. One of the ways we have demonstrated our commitment to research is by allocating more research funds to our faculty members. We give priority to those research grant applications that include experienced and senior international researchers to collaborate with our staff to collect, analyze and write up data for publication in international top ranking journals in order to identify problems, trends and solutions for local and global problems. As such, the current volume includes specific information about NSU's faculty research interests by department and faculty member. We have made it easy for potential interested researchers anywhere to find and contact our researchers for the possibility of joint collaboration. We welcome the opportunity to support important research in Bangladesh and the region and we look forward to hearing from you.

**Professor Atiqul Islam
Vice-Chancellor
North South University**

School of Business & Economics

Accounting & Finance

Dr. Mohammad Istiaq Azim	Professor	<ol style="list-style-type: none"> 1. Corporate Social Responsibility (CSR) 2. Environmental Accounting 3. Corporate Governance 4. Intellectual Capital 5. Forensic Accounting 6. Accounting, Accountability and Auditing 7. Business Ethics 	mohammad.azim@northsouth.edu
Dr. Arifur Rahman	Associate Professor & Chair	<ol style="list-style-type: none"> 1. Asset Pricing Anomalies 2. Issues in Behavioral Finance 3. Emerging Stock Market Behavior 4. Corporate Governance Issues 5. Accounting Information and Value 	mdarifur.rahman@northsouth.edu
Dr. Frank Henry Wade	Assistant Professor	<ol style="list-style-type: none"> 1. US Taxes Especially Gambling and Charitable Deductions Individual Taxes 2. Comparisons Between GAAP verses International Standards IFRS 3. Accounting and Tax Requirements or Derivatives and Option on the NYSE 4. Introduction of Islamic Finance Vehicles into Western Financial Markets 	frank.wade@northsouth.edu
Dr. Mohammad Arman	Assistant Professor	<ol style="list-style-type: none"> 1. Risk Management and Derivatives 2. Microfinance 3. P3 Projects and Infrastructure Finance 4. Economic Evaluation of Infrastructure Projects 5. Statistical and Econometric Modeling 6. Spatial Econometrics and its Application in Business 	mohammad.arman@northsouth.edu
Dr. Fahim Faisal	Assistant Professor	<ol style="list-style-type: none"> 1. Corporate Finance 2. Infrastructure Financing 3. PPP Project Management and Development 4. Project Finance 5. Islamic Finance 6. Political Economy 	fahim.faisal02@northsouth.edu
Dr. Samina Rahman	Assistant Professor	<ol style="list-style-type: none"> 1. Management Accounting 2. Public Sector Accounting 3. Project Management 4. Performance Management 5. Government Accountability 	samina.rahman@northsouth.edu

Dr. Md Nurul Kabir	Assistant Professor	<ol style="list-style-type: none"> 1. Credit Risk in Banking 2. Islamic Banking 3. Corporate Governance 4. Carbon Emission and CSR 	nurul.kabir@northsouth.edu
Sayba Kamal Athoi	Senior Lecturer	<ol style="list-style-type: none"> 1. Equity Gap Management through Crowd Funding 	sayba.athoi@northsouth.edu
Mahjabeen Ahmed	Senior Lecturer	<ol style="list-style-type: none"> 1. Monetary Economics 2. Start-ups in Bangladesh 3. Energy Economics 	mahjabeen.ahmed@northsouth.edu
Adnan Habib	Senior Lecturer	<ol style="list-style-type: none"> 1. Microfinance 2. Capital Structure 3. Social Business 4. Small Business 5. Entrepreneurship 6. Performance Evaluation 	adnan.habib@northsouth.edu
Kamrul Huda Talukdar	Senior Lecturer	<ol style="list-style-type: none"> 1. Energy Economics 2. Corporate Finance 3. Development Economics 4. Behavioral Finance 5. Corporate Governance 	kamrul.talukdar@northsouth.edu
Mokhdum Morshed	Senior Lecturer	<ol style="list-style-type: none"> 1. Capital Market 2. Behavioral Finance 3. Asset-liability Managements in Commercial Banks 	mokhdum.morshed@northsouth.edu
Muin Uddin Ahmed	Senior Lecturer	<ol style="list-style-type: none"> 1. Corporate Governance 2. Nonprofit Governance 	muin.ahmed@northsouth.edu
Rubaiya Nadia Huda	Lecturer	<ol style="list-style-type: none"> 1. Earning Management 2. Behavioral Finance 3. Corporate Finance 4. Stock price volatility 5. Corporate Governance 	rubaiya.huda@northsouth.edu
Hasan A. Mamun	Lecturer	<ol style="list-style-type: none"> 1. Market Microstructure 2. Demutualization 3. Financial Inclusion 4. Cashless Transactions 	hasan.mamun@northsouth.edu

Rezwanul Mumtahir Husain	Lecturer	<ol style="list-style-type: none"> 1. Open Book Accounting 2. Corporate Social Disclosures 3. Corporate Finance 4. Capital Market 	rezwanul.husain@northsouth.edu
M Ahsanur Rahim	Lecturer	<ol style="list-style-type: none"> 1. Social Finance 2. Sustainability Accounting 3. Social Enterprise Development 4. Small Business 5. Social Business 6. Impact Financing 	muhammed.rahim@northsouth.edu
Md Abdul Wasi	Lecturer	<ol style="list-style-type: none"> 1. Banking 2. Bank Risk 3. Bank Soundness 4. Business Cycles 	wasi.abdul@northsouth.edu
Syeda Humayra Abedin	Lecturer	<ol style="list-style-type: none"> 1. Taxation 2. Auditing: Service Industry, Consumer product Industry. 3. International Accounting Standards Board projects on International Financial Reporting Standard. 4. Compliance with International Accounting Standards/ International Financial Reporting Standards. 5. Corporate Governance Analysis. 	syeda.abedin@northsouth.edu

Economics

Dr. M. Ismail Hossain	Professor	<ol style="list-style-type: none"> 1. International Trade 2. Development Economics 3. Agricultural Economics 4. Macroeconomic modeling 5. Regional economic integration 	ismail.hossain@northsouth.edu
Dr. A. K. M. Atiqur Rahman	Professor	<ol style="list-style-type: none"> 1. Macroeconomics 2. International Economics 3. Financial Economics 4. Monetary Economics 5. Development Economics 	akm.atiqur@northsouth.edu
Dr. Gour Gobinda Goswami	Professor	<ol style="list-style-type: none"> 1. International Economics 2. International Finance 3. Applied Econometrics 4. Development Economics 5. Economic modeling 	gour.goswami@northsouth.edu
Dr. A. F. M. Ataur Rahman	Professor	<ol style="list-style-type: none"> 1. Financial Economics 2. Applied Econometrics 3. Monetary Economics 4. Development Economics 5. Environmental Economics 	ataur.rahman@northsouth.edu
Dr. Helal Uddin Ahammad	Professor	<ol style="list-style-type: none"> 1. Energy and Resource Economics 2. Agricultural Economics 3. Development Economics 4. International Economics 5. CGE Modeling 	helal.ahammad@northsouth.edu
Dr. Mustafa Abdur Rahman	Associate Professor	<ol style="list-style-type: none"> 1. Labour Economics 2. Development Economics 3. Education Economics 	mustafa.rahman@northsouth.edu
Dr. Sakib Bin Amin	Associate Professor	<ol style="list-style-type: none"> 1. Energy Economics 2. Economic modeling 3. Applied Econometrics 4. Tourism 	sakib.amin@northsouth.edu
Dr. Ahmed Tazmeen	Assistant Professor & Chair	<ol style="list-style-type: none"> 1. Education Economics 2. Development Economics 3. International Finance 4. Urban economics 5. Macroeconomics 	ahmed.tazmeen@northsouth.edu

Dr. Ahsanuzzaman	Assistant Professor	<ol style="list-style-type: none"> 1. Experimental Economics 2. Behavioral Economics 3. Development Economics 4. Applied Econometrics 5. Labour Economic 	ahsan.uzzaman@northsouth.edu
Dr. Asad Karim Khan Priyo	Assistant Professor	<ol style="list-style-type: none"> 1. Macroeconomics 2. Financial Economics 3. Industrial Organization 4. Labour Economics 5. Corporate Finance 	asad.priyo@northsouth.edu
Dr. Kanti Ananta Nuzhat	Assistant Professor	<ol style="list-style-type: none"> 1. Development Economics 2. Population Economics 3. Health Economics 4. Education Economics 5. Political Economy 	kanti.nuzhat@northsouth.edu
Dr. Mainul Islam Chowdhury	Assistant Professor	<ol style="list-style-type: none"> 1. Monetary Economics 2. Macroeconomics 3. Financial Institutions & Markets 4. Applied Econometrics 	mainul.chowdhury@northsouth.edu
Dr. Rushde Elahi Akbar	Assistant Professor	<ol style="list-style-type: none"> 1. Trade Theory 2. Applied Econometrics 3. Labour Economics 	rushed.akbar@northsouth.edu
Dr. Syed Mortaza Asif Ehsan	Assistant Professor	<ol style="list-style-type: none"> 1. Natural Resource & Environmental Economics 2. Applied Econometrics 3. Macroeconomics 4. Development Economics 	syed.ehsan@northsouth.edu
Dr. Samiul Haque	Assistant Professor	<ol style="list-style-type: none"> 1. Applied Microeconomics 2. Applied Econometrics 3. Agricultural Economics 4. Production Economics 5. Health Economics 	samiul.haque01@northsouth.edu

Dr. S M Zahid Iqbal	Assistant Professor	1. Experimental Economics 2. Development Economics 3. Microeconomics	zahid.iqbal@northsouth.edu
Chowdhury Nawsheen Farooqi	Senior Lecturer	1. Applied Econometrics 2. Development Economics 3. Macroeconomics	chowdhury.farooqi@northsouth.edu
Syed Iftekharul Huq	Senior Lecturer	1. Macroeconomics 2. Development Economics	syed.huq@northsouth.edu
Abdul Mumit	Senior Lecturer	1. Applied Macroeconomics	abdul.mumit@northsouth.edu
Muntasir Mamun Iqbal	Senior Lecturer	1. Financial Economics 2. Applied Macroeconomics 3. Economic Policy	muntasir.iqbal@northsouth.edu
Raisa Afsana	Senior Lecturer	1. Development Economics 2. Education Economics 3. Microeconomics	raisa.afsana@northsouth.edu
Humaira Husain	Senior Lecturer	1. Applied Econometrics 2. Development Studies 3. Development Macro	humaira.hussain@northsouth.edu
Parisa Shakur	Senior Lecturer	1. Development Economics 2. Gender 3. Governance	parisa.shakur@northsouth.edu
Nabeel Iqbal	Lecturer	1. Education Economics 2. Development Economics 3. Microeconomics	nabeel.iqbal@northsouth.edu
Asif Chowdhury	Lecturer	1. Business Economics 2. International Economics	asif.chowdhury@northsouth.edu
Nazneen Imam	Lecturer	1. Health Economics 2. Education Economics	nazneen.imam@northsouth.edu
Azreen Benazir Abdullah	Lecturer	1. Industrial Organization 2. Microeconomics	azreen.benazir@northsouth.edu
Mahnaz Aftabi Atique	Lecturer	1. Econometrics 2. Microeconomics	mahnaz.atique@northsouth.edu

Management

Dr. M. Khasro Miah	Professor	<ol style="list-style-type: none"> 1. Human Resource Management 2. Comparative HRM 3. Managerial Skill Development 4. Organizational Behavior 5. Leadership Development 	khasro.miah@northsouth.edu
Dr. Mahmud A. Shareef	Professor	<ol style="list-style-type: none"> 1. Online Consumer Behavior 2. SMS based Marketing 3. Mobile Banking and Mobile Health 4. Consumers' Adoption Behavior 5. Electronic-Government and Public Administration Reformation 6. Consumer Behavior and Information and Communication Technology 7. Service Quality and Consumers Behavior for Electronic-commerce 8. Mobile-health Distribution Channel and Consumer Preference for Mobile-health 9. Emergency Supply Chain Management 	mahmud.shareef@northsouth.edu
Dr. Jashim Uddin Ahmed	Professor Chair & Dean (Acting)	<ol style="list-style-type: none"> 1. Entrepreneurship 2. Social Innovation 3. Higher Education 4. Contemporary Issues in Business 	jashim.ahmed@northsouth.edu
Dr. Nazlee Siddiqui	Associate Professor	<ol style="list-style-type: none"> 1. Work environment/organizational behavior improvement, including change management 2. Workforce capability and learning pedagogy development 3. Strategic management of services 4. Integration of care (person centered, coordinated and continuity of care) 	nazlee.siddiqui@northsouth.edu
Dr. Md. Shahedul Alam	Assistant Professor	<ol style="list-style-type: none"> 1. Strategy 2. Entrepreneurship 3. Leadership 4. Sustainability 5. Innovation Management 	shahedul.alam@northsouth.edu

Dr. Ummaha Tul Hazra	Assistant Professor	<ol style="list-style-type: none"> 1. Technology Adoption 2. Digital Divide 3. Information Ethics 4. Management of Technology & Innovation 	ummaha.hazra@northsouth.edu
Dr. Muslima Zahan	Assistant Professor	<ol style="list-style-type: none"> 1. Sustainable Business 2. Global Strategy 3. Contemporary Issues on Strategic Management 	muslima.zahan@northsouth.edu
Dr. Mehe Zebunnesa Rahman	Assistant Professor & Director	<ol style="list-style-type: none"> 1. Climate Change 2. Waste Management 3. Sustainable Development 4. E-Banking 5. Green Marketing 	mehe.rahman@northsouth.edu
Dr. Md. Samim Al Azad	Assistant Professor	<ol style="list-style-type: none"> 1. Offshore IT Outsourcing & Knowledge Management 2. Artificial Intelligence (AI) in Manufacturing 3. Strategic Value of IT in SME 	samim.azad@northsouth.edu
Dr. Zulkarin Jahangir	Assistant Professor	<ol style="list-style-type: none"> 1. Innovation 2. Sustainability 3. ICTD 4. Data Analysis 5. Big Data 	zulkarin.jahangir@northsouth.edu
Dr. Alima Aktar	Assistant Professor	<ol style="list-style-type: none"> 1. Employee Engagement 2. Sustainable HRM practices 3. Gender in organizations 4. Human Capital 5. HR Analytics 6. Compensation Management 	alima.aktar@northsouth.edu
Dr. Shamim Talukder	Assistant Professor	<ol style="list-style-type: none"> 1. Technology adoption and diffusion 2. Electronic government and public sector reformation 3. IoT in Healthcare 4. Neural network modelling 5. Multivariate data analysis 6. Mobile and ubiquitous technology 	shamim.talukder@northsouth.edu

Shahid Hossain	Senior Lecturer	<ol style="list-style-type: none"> 1. Aviation management 2. Relational marketing 3. Consumer Ethnocentrism 	shahid.hossain@northsouth.edu
M Nawaz Ameen	Senior Lecturer	<ol style="list-style-type: none"> 1. E-SCM (Electronic Supply Chain Management) 2. IT systems management, Social Media in E-Commerce 3. IT Systems such as Payment Gateway in E-Business 	rifat.iqbal@northsouth.edu
Muhammad Maruf Ibne Wali	Senior Lecturer	<ol style="list-style-type: none"> 1. Entrepreneurship 2. Operation Management 3. HRM Project Management 	maruf.wali@northsouth.edu
Md. Al-Amin	Lecturer	<ol style="list-style-type: none"> 1. Employee Engagement 2. Transformational Leadership 3. Employee Turnover 4. Sustainability Management 5. Talent Management 6. Social Innovation 	md.amin@northsouth.edu
Adeyl Khan	Lecturer	<ol style="list-style-type: none"> 1. Information Systems and Operation 	adeyl.khan@northsouth.edu
Ms. Israt Laila	Lecturer	<ol style="list-style-type: none"> 1. Sustainability 2. Health Management 	israt.laila@northsouth.edu
Ms. Rahnuma Sanjana	Lecturer	<ol style="list-style-type: none"> 1. Macroeconomic policies and its effect on Open-ended Mutual Fund Pricing 2. The Effect of Macroeconomic Variables on the Financial 3. Performance of Mutual Funds industry in Bangladesh 	rahnuma.sanjana@northsouth.edu
Shafquat Rafiul Alam	Lecturer	<ol style="list-style-type: none"> 1. The Fourth Industrial Revolution 2. Knowledge Sharing 3. Business Innovations 4. Consumer behavior 5. Technology Adoption 6. Contemporary issues in HRM 	shafquat.alam@northsouth.edu
Md. Mofassel Hossain	Lecturer	<ol style="list-style-type: none"> 1. Strategic Procurement and Sourcing 2. Integration of Supply Chain 	mofassel.hossain@northsouth.edu

Kabid Md Surid	Lecturer	<ol style="list-style-type: none"> 1. Social Networks 2. Technology Adaption 3. Database 	kabid.surid@northsouth.edu
Yurika Uematsu Bhuiyan	Lecturer	<ol style="list-style-type: none"> 1. Strategic Management 2. Supply Chain Management 3. Leadership 4. Motivation 	yurika.bhuiyan@northsouth.edu
Rumana Huq Luva	Lecturer	<ol style="list-style-type: none"> 1. Human Resource Management 2. Training 3. Compensation 4. Entrepreneurship 5. Leadership 6. Contemporary Issues in Bangladesh 	rumana.luva@northsouth.edu
Tanya Ahmed	Lecturer	<ol style="list-style-type: none"> 1. Entrepreneurship 2. Leadership 3. Motivation 4. Organizational Behavior 	tanya.ahmed@northsouth.edu
Quazi Tafsirul Islam	Lecturer	<ol style="list-style-type: none"> 1. Human Resources Accounting Strategy and Innovation in a Developing nation perspective 2. Relationship between Supply Chain & National Infrastructure 3. HR Innovation with E-HRM 4. HR Policy Formulation and legislative Implications 	quazi.islam@northsouth.edu
Rifat Iqbal	Lecturer	<ol style="list-style-type: none"> 1. Innovation Management 2. Strategic Management 3. Change Management 4. Entrepreneurship 5. Human Resource Management 	rifat.iqbal@northsouth.edu
Faseeha Zabir	Lecturer	<ol style="list-style-type: none"> 1. Psychological Contract 2. Sustainability 3. Strategic Human Resource Management 4. Organizational Change and development 5. Workforce Diversity 6. Learning and Development 	faseeha.zabir@northsouth.edu

Kabid Md Surid	Lecturer	<ol style="list-style-type: none"> 1. Social Networks 2. Technology Adaption 3. Database 	kabid.surid@northsouth.edu
Rifat Iqbal	Lecturer	<ol style="list-style-type: none"> 1. Innovation Management 2. Strategic Management 3. Change Management 4. Entrepreneurship 5. Human Resource Management 	rifat.iqbal@northsouth.edu
Raihan Sharif	Lecturer	<ol style="list-style-type: none"> 1. Technology Management 2. Diffusion of Ethnology 3. Supply Chain Management 4. E-Commerce & E-Business 5. User-Generated Content & its Implication in Business 	raihan.sharif01@northsouth.edu
Umama Rahman	Lecturer	<ol style="list-style-type: none"> 1. Energy Economics 2. Natural Resource Economics 3. Applied Econometrics 4. International Trade 	umama.rahman@northsouth.edu
Md. Mofassel Hossain	Lecturer	<ol style="list-style-type: none"> 1. Humanitarian Logistics 2. Systematization of Procurement & Sourcing Process 3. Relationship between Supply Chain & National Infrastructure 4. Relationship between Supply Chain & Network Readiness 5. Relationship between Supply Chain & National Economy 6. Integration of Supply Chain 7. Supply Chain Modeling 	mofassel.hossain@northsouth.edu
Quazi Tafsirul Islam	Lecturer	<ol style="list-style-type: none"> 1. Human Resources Accounting 2. Strategy and Innovation in a Developing nation perspective. 3. HR Innovation with E-HRM 4. HR Policy Formulation and legislative Implications 	quazi.islam@northsouth.edu

Marketing & International Business

Dr. Tamgid Ahmed Chowdhury	Associate Professor	<ol style="list-style-type: none"> 1. Consumer Behavior 2. Poverty and Social Welfare 3. Political and Non-profit Sector Marketing 	tamgid.ahmed@northsouth.edu
Dr. Muhammad Sabbir Rahman	Associate Professor	<ol style="list-style-type: none"> 1. Service Quality 2. Healthcare Marketing 3. Tourism Marketing 4. Knowledge Management 	rahman.sabbir@northsouth.edu
Dr. Mohammad Tayeenul Hoque	Assistant Professor & Chair	<ol style="list-style-type: none"> 1. Dynamic Marketing Capability 2. Ambidextrous Market Orientation 3. International Ambidexterity 4. Sensory Marketing 	mohammad.hoque02@northsouth.edu
Dr. Khandker Md Nahin Mamun	Assistant Professor	<ol style="list-style-type: none"> 1. International Entrepreneurship 2. SME Internationalization 3. Culture & Dynamic Capabilities 	khandker.mamun@northsouth.edu
Dr. Husain Salilul Akareem	Assistant Professor	<ol style="list-style-type: none"> 1. Service Design 2. Education Marketing 3. Value Co-creation 4. Patient Engagement 	husain.akareem@northsouth.edu
Dr. Bashir Hussain	Assistant Professor	<ol style="list-style-type: none"> 1. Buyer behavior and ICT 2. Service quality and service design 3. Adoption behavior 4. Leadership and organizational change 	bashir.hussain@northsouth.edu
Dr. Mehdi Hussain	Assistant Professor	<ol style="list-style-type: none"> 1. Behavior for M-commerce 2. M-health and M-government 3. Consumer and Service Adoption 4. ICT Adoption and Social Development 5. Public and Social Marketing 	mehdi.hussain@northsouth.edu
Syed Kamrul Islam	Senior Lecturer	<ol style="list-style-type: none"> 1. Cross Cultural Consumer Behavior 2. Contemporary Social Issues 3. Health Care Accountability 4. Services Marketing 5. International Marketing 6. Consumerism 	syed.islam@northsouth.edu
Narmin Tartila Banu	Senior Lecturer	<ol style="list-style-type: none"> 1. E-commerce 2. Digital Marketing 	narmin.banu@northsouth.edu

Zarjina Tarana Khalil	Senior Lecturer	<ol style="list-style-type: none"> 1. Bottom of Pyramid Market 2. Online Shopping Behavior 3. Sustainable Consumer Behavior 4. Services Marketing 	zarjina.khalil@northsouth.edu
Ishrat Jahan Synthia	Senior Lecturer	<ol style="list-style-type: none"> 1. Green Marketing 2. Service Audit 3. Service Recovery 	ishrat.synthia@northsouth.edu
Sherina Idrish	Senior Lecturer	<ol style="list-style-type: none"> 1. Social Media Marketing 2. Brand Development 3. Consumer Behaviour 	sherina.idrish@northsouth.edu
Md. Afnan Hossain	Senior Lecturer	<ol style="list-style-type: none"> 1. Marketing Analytics 2. Service Quality 3. Health Care Tourism 	afnan.hossain@northsouth.edu
Mahmud Habib Zaman	Senior Lecturer	<ol style="list-style-type: none"> 1. Analytics 2. Big Data 3. Quantitative Marketing 	mahmud.zaman@northsouth.edu
Mahafuz Mannan	Lecturer	<ol style="list-style-type: none"> 1. Health Marketing 2. Fashion Marketing 	mahafuz.mannan@northsouth.edu
Farzana Choudhury	Lecturer	<ol style="list-style-type: none"> 1. Cross-Cultural Behavior in Negotiations 2. Historical Connections to the Past, Present and Future of International Business 3. Technological Totalitarianism 4. Consumer Perception 5. Brand Personality 6. Fashion Marketing 	farzana.choudhury@northsouth.edu
Samira Rahman	Lecturer	<ol style="list-style-type: none"> 1. Work Psychology 2. Work Family Balance Issues 3. FDI in LDC's: Prospects, Utilization of Resources, and Promoting LDC's 	samira.rahman@northsouth.edu
Shahneela Naheed	Lecturer	<ol style="list-style-type: none"> 1. Promotional Management 2. Behavioral Economics 	shahneela.naheed@northsouth.edu
Aunima Nazmun Nahar	Lecturer	<ol style="list-style-type: none"> 1. Consumer Behavior 	aunima.nahar@northsouth.edu

Omar Nasif Abdullah	Lecturer	<ol style="list-style-type: none"> 1. Customer Relationship Management in B2C Environment 2. Service Recovery in B2B and B2C Environment 3. Linking Complaint Management to Profit Maximization 4. Value Co-creation in Social Media Environment 5. Digital Marketing: The Role of Social Media in Building Digital Brand Communities 6. The Concepts and Dynamics of Nation Branding : Developing a Practical Framework for Bangladesh 7. Strategic Brand Management Issues 	omar.abdullah@northsouth.edu
Emran Mohammad	Lecturer	<ol style="list-style-type: none"> 1. Branding 2. Retail marketing 3. IMC 	emran.mohammad@northsouth.edu
Israt Jahan Linda	Lecturer	<ol style="list-style-type: none"> 1. Corporate Social Responsibility 2. Social Business 3. Services Marketing 4. Consumer Behavior 	israt.linda@northsouth.edu
Adina Malik	Lecturer	<ol style="list-style-type: none"> 1. Green Marketing 2. Sustainability 	adina.malik@northsouth.edu
Riasat Muhammad Amir	Lecturer	<ol style="list-style-type: none"> 1. Corporate Ethics and Social Responsibility and its Relationship with Brand Image 2. Product Placement Strategy and Ethical Issues 3. Corporate Branding by Using Social Media 	riasat.amir@northsouth.edu
Ehfaz Nowman	Lecturer	<ol style="list-style-type: none"> 1. Advertising 2. Consumer Behavior 3. Digital Marketing 	ehfaz.nowman@northsouth.edu
Fairuze Chowdhury	Lecturer	<ol style="list-style-type: none"> 1. Consumer Behavior 2. Social Business 3. Social Marketing 	fairuze.chowdhury@northsouth.edu

Mehnaaz Samantha Kamal	Lecturer	1. Marketing 2. International Business 3. Big Data and Analytics	ehnaaz.kamal@northsouth.edu
Tashfeen Ferdous Saeed	Lecturer	1. Analytics 2. Big Data 3. Quantitative Marketing	tashfeen.saeed@northsouth.edu
Mohammed Abdul Mumin Evan	Lecturer	1. Areas in Branding 2. E-Business/Digital Marketing	mohammed.mumin@northsouth.edu

School of Engineering & Physical Sciences

Architecture

Haroon Ur Rashid	Professor	<ol style="list-style-type: none"> 1. Climate & Design 2. Climatic Evaluation of Vernacular/ Traditional Architecture 3. Urban Planning 	haroon.rashid@northsouth.edu
Dr. Zaki Islam	Professor	<ol style="list-style-type: none"> 1. Child Environment 2. Urban Issues 	zaki.islam@northsouth.edu
Dr. Mujtaba Ahsan	Associate Professor	<ol style="list-style-type: none"> 1. Green Building 2. Sustainable Architecture 3. Architectural History and Conservation 4. Architectural Aesthetics 5. Energy Audit and Simulation in Architecture 	mujtaba.ahsan@northsouth.edu
Shaila Joarder	Associate Professor & Chair	<ol style="list-style-type: none"> 1. Energy Efficient Buildings 2. Life Cycle Assessment 3. Urban Sustainability 4. Environmental Impact Assessment 5. Urban Resilience and Land Use Planning 6. Environmental Sustainability 	shaila.joarder@northsouth.edu
Dr. Saiful Islam	Associate Professor	<ol style="list-style-type: none"> 1. Thermal Comfort 2. Natural Ventilation 3. Daylight 4. Energy Simulation 	saif.islam@northsouth.edu
Shahriar Iqbal Raj	Assistant Professor	<ol style="list-style-type: none"> 1. Green Building 2. Sustainable Architecture 3. Fire Safety 4. Occupational Health & Safety 5. Adaptive Re-use of Heritage Buildings 	shahriar.raj@northsouth.edu
Ismat Hossain	Senior Lecturer	<ol style="list-style-type: none"> 1. Sustainability & Confort Using Local Building Knowledge 2. Urbanism & Urban Ecology 3. Green Roof & Urban Heat Impact 4. Transitional Ecological Environment 5. Urban Intervention & Public Realm 	ismat.hossain@northsouth.edu
Sujaul Islam	Senior Lecturer	<ol style="list-style-type: none"> 1. Urbanisation & Transport Planning 2. Sustainable Cities 3. Climate Change 	sujal.khan@northsouth.edu

Maruf Hossain	Senior Lecturer	<ol style="list-style-type: none"> 1. Urbanization 2. Human Settlement 3. Resilience & Housing Pattern 4. Urban Climate 5. Thermal Simulation 	maruf.hossain@northsouth.edu
Shanjida Shamma	Lecturer	<ol style="list-style-type: none"> 1. Human Perception of Space in terms of Psychology and Context 	shanjida.shamma@northsouth.edu
Aida Hassan	Junior Lecturer	<ol style="list-style-type: none"> 1. Designing Adaptive Forms in the Realm of Existing Form and Structure 2. Structural Conservation 3. Form within a Form 	aida.hassan@northsouth.edu
Rishaad Mohammad Yusuff	Junior Lecturer	<ol style="list-style-type: none"> 1. Competitive Designs and their Performances in terms of Efficiency 	rishaad.yusuff@northsouth.edu
Alia Shahed	Junior Lecturer	<ol style="list-style-type: none"> 1. Impact of Landscape on Urban Realm 2. Urban Design 3. Vernacular Community Architecture 	alia.shahed@northsouth.edu
Tasnuva Sarwat Sabah	Junior Lecturer	<ol style="list-style-type: none"> 1. Low Cost Structures 	tasnuva.sabah@northsouth.edu

Civil & Environmental Engineering

Dr. Md. Sirajul Islam	Professor	<ol style="list-style-type: none"> 1. Climate Change: impact and adaptation studies. Development of technology for adaptation to climate change or financial mechanism as weather index based insurance. 2. Natural Hazard study and Disaster Management 3. Modeling water, environment and climates System 4. Water Resources: Flood, urban environment, land use and drainage; 5. Coastal zone management: salinity intrusion & source for alternate water supply 6. Green Building, fire safety & environmental management in the industrial premises 	sirajul.islam@northsouth.edu
Dr. Javed Bari	Professor & Dean	<ol style="list-style-type: none"> 1. Highway Materials Characterization 2. Traffic and Crash Data Analysis 3. Pavement and Geotechnical Design and Analysis 4. Civil and Construction Engineering Materials 5. Transportation Economics 6. Recycling of Highway Materials 	javed.bari@northsouth.edu
Dr. Mohammad Nazmul Islam	Professor & Chair	<ol style="list-style-type: none"> 1. Computational Mechanics 2. Theory of Inverse Problems and Regularization 3. Mechanics and Fracture Mechanics of Reinforced/Fiber Reinforced Concret 	mohammad.islam@northsouth.edu
Dr. Habibur Rahman Kamal	Professor	<ol style="list-style-type: none"> 1. Development of Steel Building Equipment 2. Development of Translucent Concrete with Indigenous Materials 3. Development of Light Reflecting Concrete 	habibur.kamal@northsouth.edu
Dr. Md. Shoaib Chowdhury	Professor	<ol style="list-style-type: none"> 1. Sustainable Transportation Development 2. Application of Advanced Technologies in Transportation 	shoaib.chowdhury@northsouth.edu

Dr. Nazmun Nahar	Professor	<ol style="list-style-type: none"> 1. Flood Mitigation & Floodplain Management 2. Urban Drainage 3. Integrated Watershed Management Planning 4. Assessment & Development of Best Management Practices (BMP) 5. Low Impact Development (LID) Measures at Field Scale & Watershed Scale 6. Climate Change Impact on Water Resources 	nazmun.nahar@northsouth.edu
Dr. Nadim Khandaker	Associate Professor	<ol style="list-style-type: none"> 1. Arsenic Mitigation and Safe Water Supply 2. Industrial Wastewater Treatment 3. Renewable Energy and Energy Efficiency 4. Engineering and Public Policy 	nadim.khandaker@northsouth.edu
Dr. Shama E. Haque	Associate Professor	<ol style="list-style-type: none"> 1. Geochemistry 2. Environmental effects of urbanization 3. Water quality 4. Sustainability of groundwater 5. Water resource management 	shama.haque@northsouth.edu
Dr. Minhaz Mohammad Shahriar	Assistant Professor	<ol style="list-style-type: none"> 1. Slope stability and shear band localization 2. Application of the Finite Element Method to Geotechnical Engineering 3. Soil-structure interaction 4. Pile Foundation 5. Thermo-Poro-Mechanical Coupling 6. Soil liquefaction 7. Soil mechanics and computational mechanics 8. Biomechanics 9. Computational flow & sediment transport modeling 	minhaz.shahriar@northsouth.edu

Electrical & Computer Engineering

Dr. M. Rokonuzzaman	Professor	<ol style="list-style-type: none"> 1. Artificial Intelligence & Robotics 2. Technology Transfer and Policy 3. Technology and Innovation Management 	m.rokonuzzaman@northsouth.edu
Dr. Dihan Hasan	Professor	<ol style="list-style-type: none"> 1. Plasmonic Metamaterials at Visible and Infrared 2. Infrared Sensing and Energy Harvesting at Nano-Scale on 2D Material Platform 3. Nondispersive Infrared (NDIR) Gas Sensor on free Space and Waveguide Platform 4. Physical sensor design for MEMS scale Mass-Spectrometer 5. Deep Learning Embedded IOT for Industry, Smart-Home and Health Care 	dihan.hasan@northsouth.edu
Dr. Mohammad Rashedur Rahman	Professor	<ol style="list-style-type: none"> 1. Database and Information Systems 2. Artificial Intelligence & Robotics 3. Cloud Computing and Distributed Systems 	rashedur.rahman@northsouth.edu
Dr. Hafiz Abdur Rahman	Professor	<ol style="list-style-type: none"> 1. Cloud Computing and Distributed Systems 2. Data Networking and Information Security 3. Embedded Systems and Internet of Things (IoT) 4. Modeling and Simulation 5. Power Systems and Renewable Energy 	hafiz.rahman@northsouth.edu
Dr. Mohammad Abdul Matin	Professor	<ol style="list-style-type: none"> 1. Distributed Wireless Access, Scheduling, and Power Control 2. MIMO-OFDM 3. Network Coding 4. Wideband, Multiband and Smart Antennas for Wireless Applications 5. Spectrum Sensing Techniques, Power, and Admission Control 6. Spectrum Management 7. Cooperative and Clustering Distributed Sensors 8. Sensor Applications 	mohammad.matin@northsouth.edu

Dr. Shazzad Hosain	Professor	<ol style="list-style-type: none"> 1. Mobile, Wireless, and Web Applications Development 2. Artificial Intelligence & Robotics 3. Database & Information Systems 4. Software Engineering 	shazzad.hosain@northsouth.edu
Dr. Hasan Uz Zaman	Professor	<ol style="list-style-type: none"> 1. VLSI Design and Fabrication 2. Embedded Systems and Internet of Things (IoT) 3. Semiconductor Devices and Technology 4. Power Systems and Renewable Energy 	hasan.zaman@northsouth.edu
Dr. Kazi Mohammad Abdus Salam	Professor	<ol style="list-style-type: none"> 1. Power Systems and Renewable Energy 2. Semiconductor Device and Technology 	kazi.salam@northsouth.edu
Dr. Mohammad Rezaul Bari	Associate Professor & Chair	<ol style="list-style-type: none"> 1. Semiconductor Device and Technology 2. Power Systems and Renewable Energy 3. Synthesis and Assembly of Functional Nanostructures 4. Solar Photovoltaics 	rezaul.bari@northsouth.edu
Dr. Lamia Iftekhar	Associate Professor	<ol style="list-style-type: none"> 1. Control Engineering 2. Robotics and Automation 3. Women in STEM 	lamia.iftekhar@northsouth.edu
Dr. Nova Ahmed	Associate Professor	<ol style="list-style-type: none"> 1. HCI 2. Mobile Computing 3. Distributed Computing 	nova.ahmed@northsouth.edu
Dr. Rajesh Palit	Associate Professor	<ol style="list-style-type: none"> 1. Cloud Computing & Distributed Systems 2. Data Networking & Information Security 3. Mobile, Wireless, and Web Applications Development 	rajesh.palit@northsouth.edu
Dr. Atiqur Rahman	Associate Professor	<ol style="list-style-type: none"> 1. RF, Microwave and Communication Technology 2. Modeling and Simulation 3. Power Systems and Renewable Energy 	atiqur.rahman@northsouth.edu
Dr. Sifat Momen	Assistant Professor	<ol style="list-style-type: none"> 1. Artificial Intelligence & Robotics 2. Modeling & Simulation 	sifat.momen@northsouth.edu

Dr. Nabil Shovon Ashraf	Associate Professor	<ol style="list-style-type: none"> 1. Nanoscale Device Analytical Modeling 2. Nanoscale Transport Device Physics 3. Device Reliability 4. Random Telegraph Noise in Extremely Scaled Devices 	nabil.ashraf@northsouth.edu
Dr. Faiz Al Faisal	Assistant Professor	<ol style="list-style-type: none"> 1. Parallel and Distributed Systems 2. High Performance Computing (HPC) 3. Machine Learning 4. GPGPU Computing 	faiz.faisal@northsouth.edu
Dr. Mohammad Monirujjaman Khan	Assistant Professor	<ol style="list-style-type: none"> 1. Wearable Antennas & Radios 2. Remote Healthcare 3. Mobile & Cloud Computing 4. Wireless Sensor Networks 5. Body-centric Wireless Communications 6. Compact, Smart, and Multi Band Antennas 7. Smart Cooperative Network: Personal & Body Area Network 8. UWB Antennas & System 9. Biomedical Engineering 	monirujjaman.khan@northsouth.edu
Dr. Ahsanur Rahman	Assistant Professor	<ol style="list-style-type: none"> 1. Data Mining 2. Graph & Hypergraph Algorithms 3. Computational Systems Biology 4. Theoretical Computer Science 5. Network Theory 	ahsanur.rahman@northsouth.edu
Dr. Tanzilur Rahman	Assistant Professor	<ol style="list-style-type: none"> 1. Biomedical Systems Design 2. Biomedical Signal Processing 3. Biosensing, Lab on Chip 	tanzilur.rahman@northsouth.edu
Dr. Mahdy Rahman Chowdhury	Assistant Professor	<ol style="list-style-type: none"> 1. Optical Force 2. Plasmonics 3. Biomedical Applications of Optics/ Electromagnetics along with Optical Force in Photonics 4. Antenna 5. Solar Cell 6. Optical Fiber Theory/Simulations 	mahdy.chowdhury@northsouth.edu

Dr. Mohammad Ashrafuzzaman Khan	Assistant Professor	<ol style="list-style-type: none"> 1. Internet of Things (IoT) 2. Machine Learning 3. Mobile Collaborative Programming 4. Distributed Programming 	mohammad.khan02@northsouth.edu
Dr. Nabeel Mohammed	Assistant Professor	<ol style="list-style-type: none"> 1. Image Processing 2. Pattern Recognition 3. Deep Learning 4. Bangla Computational Linguistics 	nabeel.mohammed@northsouth.edu
Dr. Shohana Rahman Deeba	Assistant Professor	<ol style="list-style-type: none"> 1. Power System 2. Battery Energy Storage 3. Distributed Resource Control 4. Smart Grid 	shohana.deeba@northsouth.edu
Dr. Shahnewaz Siddique	Assistant Professor	<ol style="list-style-type: none"> 1. Controls 2. Mathematical Optimization 3. Aerial and Ground Robotics 	shahnewaz.siddique@northsouth.edu
Dr. Md. Mahfuzur Rahman	Assistant Professor	<ol style="list-style-type: none"> 1. Cloud Computing 2. Ubiquitous Computing 	mahfuzur.rahman05@northsouth.edu
Dr. Md. Shahriar Karim	Assistant Professor	<ol style="list-style-type: none"> 1. Mathematical Modeling of Dynamical Systems 2. Stochastic Modeling 3. Quantitative Systems Biology 4. Estimation and Detection for Random Events 	shahriar.karim@northsouth.edu
Mr. Mirza Mohammad Lutfe Elahi	Senior Lecturer	<ol style="list-style-type: none"> 1. Machine Learning 2. Computer Vision 3. Data Science 	lutfe.elahi@northsouth.edu
M Maksud Alam	Senior Lecturer	<ol style="list-style-type: none"> 1. Signals & Image Processing 2. RF, Microwave and Communication Technology 3. Broadband Access & Communication Technologies 	maksud.alam@northsouth.edu

Ishtiaque Hossain	Senior Lecturer	<ol style="list-style-type: none"> 1. Artificial Intelligence & Robotics 2. Signals & Image Processing 3. Machine Learning 	ishtiaque.hossain@northsouth.edu
Md. Rezaul Islam	Senior Lecturer	<ol style="list-style-type: none"> 1. RF, Microwave, and Communication Technology 2. Power Systems & Renewable Energy 3. Modeling & Simulation 4. Artificial Intelligence & Robotics 5. Embedded Systems & Internet of Things (IoT) 	mohammad.islam@northsouth.edu
Silvia Ahmed	Senior Lecturer	<ol style="list-style-type: none"> 1. Machine Learning 2. Artificial Intelligence 3. Natural Language Processing 	silvia.ahmed@northsouth.edu
Rummana Rahman	Senior Lecturer	<ol style="list-style-type: none"> 1. Modeling & Simulation 2. Power Systems & Renewable Energy 3. VLSI 	rummana.rahman@northsouth.edu
Rashed Shelim	Senior Lecturer	<ol style="list-style-type: none"> 1. Information Theory 2. Mobile & Wireless Communications 3. Millimeter Waves 4. Small Cell, Massive MIMO, and Beam Forming 5. Cognitive Radio 	rashed.shelim@northsouth.edu
Md. Naqib Imtiaz Hussain	Senior Lecturer	<ol style="list-style-type: none"> 1. Technology Innovation Management 2. Data Science 	naqib.hussain@northsouth.edu
Md. Abu Obaidah	Lecturer	<ol style="list-style-type: none"> 1. Mobile Wireless & Web Applications Development 	abu.obaidah@northsouth.edu
Syed Fateh Al Kastur	Lecturer	<ol style="list-style-type: none"> 1. Modeling & Simulation 	syed.kastur@northsouth.edu
Tanjila Farah	Lecturer	<ol style="list-style-type: none"> 1. Cyber Security 2. Data Mining 3. Data Science 4. Computer Networks & Network Security 	tanjila.farah@northsouth.edu

Kazi Main Uddin Ahmed	Lecturer	<ol style="list-style-type: none"> 1. Electrical Power System 2. Electrical Energy Management 3. Smart Grid Application 	mainuddin.ahmed@northsouth.edu
Tamanna Motahar	Lecturer	<ol style="list-style-type: none"> 1. Human Computer Interaction (HCI) 2. Mobile Wireless & Web Applications Development 3. Embedded Systems & Internet of Things (IoT) 4. Modeling & Simulation 	tamanna.motahar@northsouth.edu
Adnan Firoze	Lecturer	<ol style="list-style-type: none"> 1. Computer Vision 2. Image Processing 3. Artificial Intelligence 4. Machine Learning 5. Intelligent Systems 	adnan.firoze@northsouth.edu
Md. Mizanur Rahman	Lecturer	<ol style="list-style-type: none"> 1. Power Systems & Renewable Energy 2. Modeling & Simulation 3. Power Electronics & Drive Control 	mizanur.rahman06@northsouth.edu
Syeda Sarita Hassan	Lecturer	<ol style="list-style-type: none"> 1. Fiber-optic Communications 2. Antenna & Antenna Systems 	syeda.hassan@northsouth.edu
Zunayeed Bin Zahir	Lecturer	<ol style="list-style-type: none"> 1. Quantum Cryptography 2. Cloud Security 3. 5G/Terahertz Frequency/mmWave 4. Network Security 	zunayeed.zahir01@northsouth.edu
Rishad Arfin	Lecturer	<ol style="list-style-type: none"> 1. Modeling and Simulation 2. RF, Microwave and Communication Technology 3. Power Systems and Renewable Energy 	rishad.arfin@northsouth.edu rishadarfin0003iut@gmail.com
Syed Athar Bin Amir	Lecturer	<ol style="list-style-type: none"> 1. Signals & Image Processing 2. Artificial Intelligence & Robotics 3. Human Computer Interaction (HCI) 4. Embedded Systems & Internet of Things (IoT) 5. Modeling and Simulation 	syed.amir@northsouth.edu

Ashfia Binte Habib	Lecturer	<ol style="list-style-type: none"> 1. Signal & Image Processing 2. Deep Learning 3. Modeling & Simulation 	ashfia.habib@northsouth.edu
Neethila Nabanita Poddar	Lecturer	<ol style="list-style-type: none"> 1. Analog & Mixed-signal Microelectronics 2. RF & Analog IC design 3. Switched-capacitor & Current-mode Filter Design 	neethila.poddar@northsouth.edu
Shahriar Hussain	Lecturer	<ol style="list-style-type: none"> 1. Communication Engineering 2. Wireless Communication 3. Network Coding 4. Channel Coding 	shahriar.hussain01@northsouth.edu
A K M Bahalul Haque	Lecturer	<ol style="list-style-type: none"> 1. Network Security & Systems 2. Data Privacy & Protection 3. Cloud Computing & Security 4. Big Data and its Future in the Field of Cyber Security 	bahalul.haque@northsouth.edu
Shaikh Shawon Arefin Shimon	Lecturer	<ol style="list-style-type: none"> 1. Human Computer Interaction (HCI) 2. Mobile Interaction 3. ICT4D 4. Software Engineering 5. Social Computing 	shaikh.shimon@northsouth.edu
Fahimul Haque	Lecturer	<ol style="list-style-type: none"> 1. Sensor Fusion & Robotics 2. Machine Learning 3. Wireless Sensor Networks 4. Signals Processing 5. Computer Vision 	fahimul.haque02@northsouth.edu
Intisar Tahmid Naheen	Lecturer	<ol style="list-style-type: none"> 1. Reinforcement Learning 2. Computer Vision 3. Artificial Intelligence 4. Machine Learning 5. Application of Machine Learning in the Power Sector 	intisar.naheen@northsouth.edu

Mathematics and Physics

Dr. Partha Pratim Dey	Professor & Chair	<ol style="list-style-type: none"> 1. Codes & Designs 2. Mathematical Modelling 	partha.dey@northsouth.edu
Dr. Miftahur Rahman	Professor	<ol style="list-style-type: none"> 1. Closed Loop Fused Deposition Modelling (FDM) in 3D Printer 2. Hadoop HDFS for Satellite and Stock Market Data Analysis 3. Online Education System with Laravel Framework 	miftahur.rahman@northsouth.edu
Dr. Abu M Khan	Associate Professor	<ol style="list-style-type: none"> 1. Group Contraction 2. Continuous Spin Representations 3. Quantum Information 	abu.khan@northsouth.edu
Dr. Md. Mamun Molla	Associate Professor	<ol style="list-style-type: none"> 1. Graphics Process Unit(GPU) computing for Lattice Boltzmann Simulation 2. Computational Fluid Dynamics (CFD) Using MPI and OpenMP Parallel Computing 3. Laminar and Turbulent Flows 4. Newtonian and Non-Newtonian Fluid Flows Using the Navier-Stokes Equations Based on curvilinear coordinates 5. Natural and Mixed Convection Flows 6. Large-eddy Simulation (LES) for Navier-Stokes and Lattice Boltzmann Equations 7. SRT and MRT Lattice Boltzmann Method (LBM) for Newtonian and Non-Newtonian fluids 8. Pollutant and Flow Dispersion Simulation 	mamun.molla@northsouth.edu
Dr. Mohammad Sahadet Hossain	Associate Professor	<ol style="list-style-type: none"> 1. Reduced Order Modeling of Periodic Control Systems with Application to Circuit Problems 2. Numerical linear Algebra and High Performance Computing 	mohammad.hossain@northsouth.edu
Dr. Subir Chandra Ghosh	Associate Professor	<ol style="list-style-type: none"> 1. Growth & Characterization of Nanomaterial 2. Solar Energy 	subir.ghosh@northsouth.edu
Dr. Muhammad Asad Uz Zaman	Associate Professor	<ol style="list-style-type: none"> 1. Mean-field Studies of Dipolar Bose-Einstein Condensates 2. Lax Pairs & Integrability Conditions of Higher-Order Nonlinear Schrodinger Equations 	muhammad.zaman@northsouth.edu

Dr. Hasina Akter	Assistant Professor	<ol style="list-style-type: none"> 1. Codes & Designs 2. Major Theory 3. Dynamical System Ergodic Theory 	hasina.akter@northsouth.edu
Dr. Monir Uddin	Assistant Professor	<ol style="list-style-type: none"> 1. Numerical Linear Algebra 2. Model Order Reduction 3. Systems and Control Theory 4. Iterative Methods for Large Sparse Matrix Equations (Silvester, Lyapunov, Riccati, etc.) 5. Scientific Computing 6. Algorithms and Software 7. Structure Preserving Model Reduction of Large-Scale Second Order Dynamical Systems Using the PDEG Method and Application to Some Real Problems 	monir.uddin@northsouth.edu
Dr. Hamidul Islam	Assistant Professor	<ol style="list-style-type: none"> 1. Mathematical Modelling with Applications in Atherosclerosis and Related Biological Phenomena 2. Mathematical and Numerical Analysis of Nonlinear ODEs and PDEs 3. Blood Flow Simulation in Artery Containing a Growing Atherosclerotic Plaque 	hamidul.islam@northsouth.edu
Dr. Preetom Nag	Assistant Professor	<ol style="list-style-type: none"> 1. Data Science 2. Numerical Simulation 3. Newtonian and Non-Newtonian Fluid Flow 4. Chaotic Mixing in Complex Fluid System 5. Information Theory 6. Collective Behavior of Biological Systems 	preetom.nag@northsouth.edu
Dr. M A Masud	Assistant Professor	<ol style="list-style-type: none"> 1. Mathematical Modelling of Biological & Social Sciences 	ma.masud@northsouth.edu
Dr. Syed Ashraf Uddin	Assistant Professor	<ol style="list-style-type: none"> 1. Supernova Cosmology 2. Time Domain Astronomy 	ashraf.uddin@northsouth.edu

Dr. Md Harunur Rashid	Assistant Professor	<ol style="list-style-type: none"> 1. Molecular Dynamics Simulation 2. Ion Channel's Functions 3. Drug Design 4. Liposomal Drug Delivery System 5. Force Field Development 	harunur.rashid01@northsouth.edu
Dr. Mohammad Ali Nawaz	Assistant Professor	<ol style="list-style-type: none"> 1. High energy Astrophysics 2. Star formation 3. Artificial intelligence in Astrophysics 	mohammad.nawaz01@northsouth.edu
Dr. Zaid Bin Mahbub	Assistant Professor	<ol style="list-style-type: none"> 1. Biomedical Physics and Engineering 2. Biomedical Imaging 3. Magnetic Resonance Imaging 4. Nerve Conduction 	zaid.mahbub@northsouth.edu
Dr. Md Shariful Islam	Assistant Professor	<ol style="list-style-type: none"> 1. Biophysics Mass-spectrometry 2. Proteomics 3. Neurodegenerative diseases 4. Parkinson's Disease 5. Data mining, Artificial Intelligence 	shariful.islam10@northsouth.edu
Md. Arifuzzaman	Senior Lecturer	<ol style="list-style-type: none"> 1. Synthesis and Characterization of Nanomaterial 2. Molecular Spectroscopy 3. Analysis of Atmospheric Trace Gases 4. Biophysics 	md.arifuzzaman01@northsouth.edu
Mohammad Mustak Mia	Senior Lecturer	<ol style="list-style-type: none"> 1. Differential Equations 	mustak.mia@northsouth.edu
Zasim U Mazumder	Senior Lecturer	<ol style="list-style-type: none"> 1. Nonlinear Optics 2. Intense Pulse Propagations 3. Cylindrically Polarized Beams 4. Solar Cell 5. Impact of ICT on Society 	zasim.uddin@northsouth.edu
Mahboob Shaheen	Senior Lecturer	<ol style="list-style-type: none"> 1. Optimization 2. Cloud Computing 3. Cyber Security 	mahboob.shaheen@northsouth.edu
Israt Jahan	Lecturer	<ol style="list-style-type: none"> 1. Biostatistics 2. Bioinformatics 3. Epidemiology 4. Public Health 	israt.jahan10@northsouth.edu

Md. Zahangir Hossain	Senior Lecturer	<ol style="list-style-type: none"> 1. Codes & Designs 2. Computational Fluid Dynamics (CFD) 3. Nano fluids 4. Fluid Dynamics of the Atmosphere & Ocean 5. Newtonian & Non-Newtonian Flows 6. Laminar & Turbulent Flows 7. Natural & Mixed Convection Flows 	zahangir.hossain@northsouth.edu
Md. Mahmud Hasan	Senior Lecturer	<ol style="list-style-type: none"> 1. Computational Fluid Dynamics(CFD) 2. SRT & MRT Lattice Boltzmann Method (LBM) for Newtonian & Non-Newtonian Flow 3. Gravity Driven Flow with Environmental and Industrial Applications 4. Flow through Porous Media 5. Hydrodynamic Stability 6. Dynamical System 7. Artificial Neural Networks & Feedback 8. Control Systems 9. Stability and Bifurcation Analysis of Delay 10. Differential Equations 	mohammad.hasan02@northsouth.edu
Sharmin Sultana	Lecturer	<ol style="list-style-type: none"> 1. Finite Element Method 	sharmin.sultana02@northsouth.edu
Niaz Murshed	Lecturer	<ol style="list-style-type: none"> 1. Computational Fluid Dynamics & Data-Driven Modeling 	mohammad.murshed@northsouth.edu
Md Salik Ahmed	Lecturer	<ol style="list-style-type: none"> 1. Partial Differential Equations 2. Mathematical Analysis 3. Computational Mathematics and Physics 	salik.ahmed@northsouth.edu
Abu Naser Sarker	Lecturer	<ol style="list-style-type: none"> 1. Adaptive Numerical Simulation of Corrosion Processes 2. Scientific Parallel Computation Using MPI & Open MP 3. Moving Mesh Methods and Numerical Analysis 4. Domain Decomposition and Parallel Methods 	abunaser.sarker@northsouth.edu

School of Humanities & Social Sciences

English & Modern Languages

Dr. Khaliquzzaman M. Elias	Professor	1. African-American Literature 2. African-Caribbean Literature	khaliquzzaman.elias@northsouth.edu
Dr. Shireen Huq	Professor	1. Feminist Literature 2. South Asian Literature	shireen.huq@northsouth.edu
Dr. Deena P. Forkan	Professor	1. Comparative Literature 2. Linguistics	deena.forkan@northsouth.edu
Dr. AQMA Rahman Bhuiyan	Associate Professor & Chair	1. Literary Theory 2. Poetry 3. British Literature	rahman.bhuiyan@northsouth.edu
Dr. Katherine Li	Assistant Professor	1. Peace Education and Development 2. Conflict Transformation	katherine.li@northsouth.edu
Dr. James Bryan Hileman	Assistant Professor	1. 17th Century British Literature 2. 18th Century British Literature	james.hileman@northsouth.edu
Dr. Mohammad Shamsuzzaman	Assistant Professor	1. Second Language Acquisition 2. L2 Composition	mohammad.shamsuzzaman@northsouth.edu
Dr. Shakila Nur	Assistant Professor	1. English Language Education Policy 2. Teacher Education 3. Discourse Analysis 4. Values Education	shakila.nur@northsouth.edu
Mohammed Shahedul Haque	Assistant Professor	1. Discourse Analysis 2. Second Language Acquisition/Theories	mohammed.haque@northsouth.edu
Mousume Akhter Flora	Senior Lecturer	1. Morphology 2. Syntax 3. Typology 4. Second Language Acquisition	mousume.flora@northsouth.edu
M. Shakhaowat Hossain	Senior Lecturer	1. Animals in Literature 2. Postcolonial Literature	shakhaowat.hossain@northsouth.edu
Nasreen Rahman	Senior Lecturer	1. Cultural Studies 2. Teaching Methodology, Curriculum Design	nasreen.rahman@northsouth.edu

Noora Shamsi Bahar	Senior Lecturer	1. Postcolonial Literature 2. African American Literature	noora.bahar@northsouth.edu
Nasrin Pervin	Senior Lecturer	1. Higher Education 2. Educational Policy	nasrin.pervin@northsouth.edu
Michelle Draper	Senior Lecturer	1. Materials Development 2. Teacher Professional Development	michelle.draper@northsouth.edu
Musharrat Hossain	Senior Lecturer	1. Political Discourse 2. Cognitive Metaphor Analysis	musharrat.hossain@northsouth.edu
Sabeeha Saleque	Senior Lecturer	1. Curriculum Planning and Designing 2. Effective Strategies for literature Assessment and Feedback	sabeeha.saleque@northsouth.edu
Samira Aziz	Senior Lecturer	1. Gothic Fiction 2. Contemporary Fiction	samira.aziz@northsouth.edu
Nadia Kamal Al Siraj	Senior Lecturer	1. Second Language Writing 2. Feedback in L2 Writing Classrooms	nadia.siraj@northsouth.edu
Nausheen Saba Siraj	Senior Lecturer	1. L2 Materials Development 2. Language Policy	nausheen.siraj@northsouth.edu
Sameya Priom	Senior Lecturer	1. Chomskyan Minimalist Approach 2. Language & Brain Modularity of Mind	sameya.priom@northsouth.edu
Tania Rahman	Senior Lecturer	1. Sociolinguistics: Language Maintenance and Shift 2. Language Planning and Policy 3. Outcome-based Education & Medium of Instruction 4. EAP (English for Academic Purposes) 5. Multimodal Discourse Analysis 6. ELT (English Language Teaching) 7. Second Language Acquisition. 8. Pragmatics	rahman.tania@northsouth.edu
Sakiba Ferdousy	Senior Lecturer	1. Learner Autonomy 2. Andragogy	sakiba.ferdousy@northsouth.edu

Afshan Sattar	Lecturer	1. Psycholinguistics 2. Computational Linguistics ³⁸ 3. Language Acquisition 4. Bilingualism	afshan.sattar@northsouth.edu
Md. Mehedi Hasan	Lecturer	1. Semantics 2. Functional Grammar	mehedi.hasan11@northsouth.edu
Rajiv Ashrafi	Lecturer	1. Literature and Psychoanalysis 2. Modernist and Postmodernist Literature	rajiv.ashrafi@northsouth.edu
Atanu Bhuiyan	Lecturer	1. Modernism 2. Post-modernism	atanu.bhuiyan@northsouth.edu
Sumaiya Tasnim Haque	Lecturer	1. Relationship between Literature, Memory, Testimony and Gender 2. Postcolonial Studies (particularly Relating to South Asia)	haque.sumaiya@northsouth.edu
Shafqat Chaudhuri	Lecturer	1. Twentieth Century American Literature 2. Twentieth Century British Literature	shafqat.chaudhury@northsouth.edu
Farzana Mohsin	Lecturer	1. Literature and Psychoanalysis 2. Modernist and Postmodernist Literature	farzana.mohsin@northsouth.edu
Nasreen Sultana Rahman	Lecturer	1. Sociolinguistics 2. Psycholinguistics	nasreen.sultana@northsouth.edu
Shafayat Nazam Rasul	Lecturer	1. Determinism and Nihilism in Contemporary Literature 2. Performance as an Art form in the age of Social Media	shafayat.rasul@northsouth.edu
Shapla Parveen	Lecturer	1. Bilingual Acquisition 2. Child Acquisition	shapla.parveen@northsouth.edu
S M Rubyat	Lecturer	1. Chinese Language Teaching 2. Belt and Road Initiative and Bangladesh	sm.rubyat@northsouth.edu
Most. Rumana Akter	Lecturer	1. Applied Linguistics 2. Bangla Language Processing	rumana.aktar@northsouth.edu
Saleheen S Ahmed	Lecturer	1. Postcolonial Literature 2. Partition Literature	saleheen.ahmed@northsouth.edu

Naveed Islam	Lecturer	1. Twentieth Century American Fiction 2. South Asian Literature	naveed.islam@northsouth.edu
Sheikh Zobaer	Lecturer	1. Victorian Gothic Writing 2. Beat Writing	sheikh.zobaer@northsouth.edu
Shahneela Tasmin Sharmi	Lecturer	1. Vocabulary Learning 2. Language teaching and Learning	shahneela.sharmi@northsouth.edu
Ashrafun Nahar	Lecturer	1. Teaching Methodology 2. Assessment for Learning	ashrafun.nahar@northsouth.edu
Sarah Asefa Zaman	Junior Lecturer	1. English Language Teaching and Testing 2. TESL	sarah.zaman@northsouth.edu
Munira Nasreen Khan	Junior Lecturer	1. Language and Culture 2. Testing and Evaluation	munira.khan@northsouth.edu
Sayma Ahmed	Junior Lecturer	1. 18th Century Romantic Poetry 2. American Literature in World Context	sayma.ahmed@northsouth.edu
Shahnaz Sultana Kaiser	Junior Lecturer	1. English Language Teaching 2. English as a language of instructions	shahnaz.kaiser@northsouth.edu
Tareq Arafat	Junior Lecturer	1. English Language Teaching	tareq.arafat@northsouth.edu
Fariah Hasan	Junior Lecturer	1. African-American Language and Culture 2. Testing and Evaluation	sheikh.zobaer@northsouth.edu

Political Science & Sociology

Dr. Abdur Rob Khan	Professor & Dean	<ol style="list-style-type: none"> 1. Non-Traditional Security including Human Security 2. Politics in South Asia 3. China as a Global Power 	abdur.khan@northsouth.edu
Dr. Sk. Tawfique M. Haque	Professor	<ol style="list-style-type: none"> 1. South Asian Governance Theories 2. Local Governance 3. Globalization & International Trade Regimes 4. Administrative Culture & Behavior 5. Civil Society 6. Aid Agencies Model of Governance 	tawfique.haque@northsouth.edu
Dr. Mahbubur Rahman	Associate Professor	<ol style="list-style-type: none"> 1. Electoral Governance 2. Electoral Violence 3. The Challenge of Islamism 4. Preventing Violent Extremism 5. Secularism & Twin Tolerations 6. SDG Goals & GO-NGO Partnership 	mahbubur.rahman@northsouth.edu
Dr. Mohammad Bulbul Ashraf Siddiqui	Associate Professor	<ol style="list-style-type: none"> 1. Islamic Piety Movement (Tablighi Jamaat and others) 2. Poverty & Development 3. Women Empowerment 4. Refugee Issues, Citizenship, and Identities 5. Trafficking and Child Protection 6. NGOs and Civil Society 7. Becoming 'Good Muslim' 	mohammad.siddiqi@northsouth.edu
Dr. Cynthia McKinney	Assistant Professor	<ol style="list-style-type: none"> 1. Leadership 2. Change 3. U.S. Foreign Policy 	cynthia.mckinney@northsouth.edu
Dr. Mubashar Hasan	Assistant Professor	<ol style="list-style-type: none"> 1. Religion and Politics 2. Countering Violent Extremism 3. Sports and Identity Politics 	mubashar.hasan@northsouth.edu
Dr. Jashim Uddin	Assistant Professor	<ol style="list-style-type: none"> 1. Bangladesh's Relations with Asian Powers 2. Managing Rohingya Crisis 3. Conflict Management in South Asia 4. Secular Cultural Approach to Deradicalization 	jashim.uddin01@northsouth.edu

Dr. Harisur Rahman	Assistant Professor	<ol style="list-style-type: none"> 1. Material Culture 2. Globalization 3. Climate Change 4. Development 5. Consumer Culture 6. Business Anthropology 7. Gender Issues 8. Media Anthropology 9. Visual Culture 	harisur.rahman@northsouth.edu
Dr. Md. Mahmudur Rahman Bhuiyyan	Assistant Professor	<ol style="list-style-type: none"> 1. Welfare State Programming in Developing Nations 2. Social Inequality 3. Social Policy 4. Social Research Methods 5. Political and Social Theory 	mahmudur.bhuiyan@northsouth.edu
Dr. Ishrat Zakia Sultana	Assistant Professor	<ol style="list-style-type: none"> 1. Refugees 2. Citizenship 3. Identity 4. Children 5. Policy and governance 6. South Asia 	ishrat.sultana@northsouth.edu
Tata Jafar	Senior Lecturer	<ol style="list-style-type: none"> 1. Social Science Research Methods 2. Quality Primary Education in Bangladesh 	tata.jafar@northsouth.edu
Md. A Sabur	Senior Lecturer	<ol style="list-style-type: none"> 1. Transnational Labor Migration 2. Transnational Families 3. Gender & Development 4. Remittances & Rural Development in Bangladesh 	tata.jafar@northsouth.edu
Md. Saidur Rahman	Lecturer	<ol style="list-style-type: none"> 1. Public Policy 2. Governance 3. Social Movement 4. Nationalism 5. Sport Studies 6. Film Studies 7. Climate Change 	saidur.rahman02@northsouth.edu
Parboti Roy	Lecturer	<ol style="list-style-type: none"> 1. Gender Issues 2. Indigenous Population in Bangladesh 	parboti.roy@northsouth.edu

Nur Newaz Khan

Lecturer

1. Anthropology of Health & Illness
2. Structural Violence
3. Health & Pharmaceuticalization
4. Mental Health & Society
5. Social & Anthropological Research Methods
6. Alternative & Ethno-medicine
7. Organization & Bureaucracy
8. Entertainment-Education in Health

nur.khan@northsouth.edu

Mizanur Rahman

Lecturer

1. Non-governmental Organizations
2. Citizens' Trust in Public Institutions
3. Voting Behavior of the Citizen
4. Climate Change Governance

mizanur.rahman08@northsouth.edu

Law

Dr. Abu Noman Mohammad Atahar Ali	Associate Professor	1. Food Law 2. Consumer Law	abu.ali@northsouth.edu
Dr. Md. Rizwanul Islam	Associate Professor	1. World Trade Law 2. Public International Law 3. Legal System of Bangladesh	rizwanul.islam@northsouth.edu
Dr. Ishtiaque Ahmed Barrister, MCI Arb	Assistant Professor & Chair	1. International Maritime Law 2. International Commercial Arbitration 3. Law of the Sea 4. Marine Insurance Law 5. Corporate & Commercial Law	ishtiaque.ahmed@northsouth.edu
Md. Rajab Ali	Senior Lecturer	1. Corporate Governance 2. International Trade 3. Economic Policy	rajab.ali@northsouth.edu
Arafat Hosen Khan	Senior Lecturer	1. Human Rights Law 2. Ethics	arafat.khan@northsouth.edu
Sakif Alam	Lecturer	1. Law of Torts 2. International Trade Law 3. Commercial Law 4. Intellectual Property Law	sakif.alam@northsouth.edu
Nasmin Jabin Noor	Lecturer	1. Criminology 2. Gender Crime 3. Zemiology 4. Criminal Justice System	nasmin.noor@northsouth.edu
Himaloya Saha	Lecturer	1. Corporate Governance 2. Investment Laws 3. Cross-border Insolvency Proceedings	himaloya.saha@northsouth.edu
Saquib Rahman	Lecturer	1. International Trade Laws 2. Laws relating to Corporate Governance 3. Intellectual Property Laws 4. Labor Laws	saquib.rahman@northsouth.edu

Sharaban Tahura
Zaman

Lecturer

1. Nationally Determined Contribution (NDC)
2. Low Carbon Development and Adaptation
3. REDD +
4. Climate Finance
5. Loss & Damage Resulting from Climate Change
6. Climate Induced Displacement
7. CBD

sharaban.zaman@northsouth.edu

Anika Rafah

Lecturer

1. Intellectual Property Laws

anika.rafach@northsouth.edu

History & Philosophy

Dr. M. Emdadul Haque	Professor & Chair	<ol style="list-style-type: none"> 1. Political History of Bengal 2. Narco-Diplomacy 3. Bangladesh-India Relations 4. Public Governance & Politics 	emdadul.haq@northsouth.edu
Dr. Sharif Uddin Ahmed	Professor	<ol style="list-style-type: none"> 1. Urbanization & Urban History 2. Institutional History 3. Archives in Historical Research 	sharifuddin.ahmed@northsouth.edu
Dr. Norman K. Swazo	Professor	<ol style="list-style-type: none"> 1. Biomedical Ethics 2. Religion & Ethics 3. Cultural Conflicts 	norman.swazo@northsouth.edu
Dr. Zerina Shabnaz Akkas	Assistant Professor	<ol style="list-style-type: none"> 1. Women's Empowerment 2. Gender Adolescent & Development 3. Child Rights & Development 	zerina.akkas@northsouth.edu
Muhammad Asiful Basar	Lecturer	<ol style="list-style-type: none"> 1. Economic History 2. Demographic History 3. South Asian Studies in General 4. Political Economy 	muhammad.basar@northsouth.edu
Ashma Rahman	Lecturer	<ol style="list-style-type: none"> 1. Psychological Impact of Violence 2. Islamophobia 3. Cultural diversity, Group Identity & Politics 	ashma.rahman@northsouth.edu
Marzan Bintey Kamal	Junior Lecturer	<ol style="list-style-type: none"> 1. Collective Violence in Asia 	marzan.kamal@northsouth.edu

School of Health & Life Sciences

Biochemistry & Microbiology

Dr. Abdul Khaleque	Professor	<ol style="list-style-type: none"> 1. Nutritional Biochemistry 2. Molecular Biology 3. Food Microbiology 4. Molecular Diagnosis 	abdul.khaleque@northsouth.edu
Dr. Kazi Nadim Hasan	Professor	<ol style="list-style-type: none"> 1. Human Molecular Genetics 2. Molecular Medicine 3. Molecular Diagnostics 4. Infectious Disease, Immunology, and Epidemiology 	nadim.hasan@northsouth.edu
Dr. SM Mostafa Kamal Khan	Professor	<ol style="list-style-type: none"> 1. Ecological Monitoring System 2. Toxic Effect of Heavy Metal ions 3. Depolymerization of Microtubule 4. Intra-chloroplatic Particles 	mostafa.khan@northsouth.edu
Dr. Md. Sohikul Islam	Associate Professor & Chair	<ol style="list-style-type: none"> 1. Host-Pathogen Interactions 2. Antimicrobial Resistance Mechanism 3. Bacterial Pathogenesis & Infectious Disease Epidemiology 4. Single Nucleotide Polymorphism 	sohidul.islam@northsouth.edu
Dr. Nayeema Bulbul	Associate Professor	<ol style="list-style-type: none"> 1. Cell Biology of Legume-Rhizobium Symbiosis 2. Food Microbiology 3. Screening of Antimicrobial Substance Producing Microorganisms 4. Bioremediation 	nayeema.bulbul@northsouth.edu
Dr. Chaman Ara Keya	Associate Professor	<ol style="list-style-type: none"> 1. High throughput Techniques and Tools for Biotechnology and their Applications 2. Transcriptome Profiling for Animal/ Plant 3. Plant Biochemistry (Identification of important secondary metabolites from medicinal plants of Bangladesh, develop and discover novel therapeutic agents) 4. Microbiology (Detection of common multidrug resistant bacteria, related enzymes and genes) 	chaman.keya@northsouth.edu

Dr. Jinath Sultana	Associate Professor	<ol style="list-style-type: none"> 1. Molecular Epidemiology 2. Bacterial Virulence and Pathogenesis 3. Host-pathogen Interactions 4. Bioremediation and Alternative Drug 	jinath.sultana@northsouth.edu
Dr. Muktadir Shahid Hossain	Associate Professor	<ol style="list-style-type: none"> 1. Bacterial Pathogenesis 2. Starvation Response 	muktadir.hossain01@northsouth.edu
Dr. Muhammad Maqsd Hossain	Associate Professor	<ol style="list-style-type: none"> 1. Pathogen Genomics 2. Bioinformatics 3. Comparative Genomics 4. Evolutionary Biology 5. Systems Biology 	muhammad.maqsd@northsouth.edu
Dr. Md. Mainul Hossain	Assistant Professor	<ol style="list-style-type: none"> 1. Creation of Pedagogic Tools to Use in Teaching Aqueous Equilibrium Chemistry 2. Mathematical Modeling of Aqueous Equilibria Using 3-D Trend Surfaces (topos) 	mainul.hossain01@northsouth.edu
Dr. Zaied Ahmed Bhuyan	Assistant Professor	<ol style="list-style-type: none"> 1. Mucosal Immunology 2. Gut Microbiota 3. Inflammatory and Autoimmune Diseases 4. Single Nucleotide Polymorphisms (SNP) 	zaied.bhuyan@northsouth.edu
Dr. Sabbir Rahman Shuvo	Assistant Professor	<ol style="list-style-type: none"> 1. Mitochondria Bioenergetics & Oxidative Stress 2. Antimicrobial Resistance in <i>P. aeruginosa</i> & In-silico Prediction of New Vaccine Targets 3. Environmental Remediation 	sabbir.shuvo@northsouth.edu
Dr. Fariza Shams	Assistant Professor	<ol style="list-style-type: none"> 1. Clinical Microbiology 2. Bacterial Virulence and Pathogenesis 3. Antibiotic Resistance in Bacteria 4. Proteomics 	fariza.shams@northsouth.edu

Dr. Shiblee Ratan Barua	Assistant Professor	<ol style="list-style-type: none"> 1. Ab Initio quantum chemistry 2. High-level electronic structure computations 3. Vibrational IR spectra simulation 4. Quantum tunneling analyses 5. Theoretical reaction kinetics 6. Astrochemistry 	<p>shiblee.barua@northsouth.edu shiblee.barua@nasa.gov</p>
Ishrat Jabeen	Senior Lecturer	<ol style="list-style-type: none"> 1. Rice genetics, particularly that gene/(s) of rice influencing starch digestibility 2. Transcriptome sequencing analysis of commonly consumed rice varieties 	<p>ishrat.jabeen@northsouth.edu</p>
Abhinandan Chowdhury	Lecturer	<ol style="list-style-type: none"> 1. Analytical Bioscience 2. Synthetic chemistry 3. Chemical biology 4. Antibacterial resistance 5. Drug discovery 6. Venomics 	<p>abhinandan.chowdhury@northsouth.edu</p>
Elvira Ahmad Moulee	Lecturer	<ol style="list-style-type: none"> 1. Toll like receptor mediated inflammatory pathway in Atherosclerosis 2. Antibiotic resistance pattern of MRSA 	<p>elvira.moulee@northsouth.edu</p>
Syeda Farhana Afroz	Lecturer	<ol style="list-style-type: none"> 1. Bacterial Pathogenesis 2. Virology 3. Host-virus interactions 4. Innate immune system 	<p>syeda.afroz@northsouth.edu</p>
Aurchie Rahman	Lecturer	<ol style="list-style-type: none"> 1. Tumour Microenvironment in Regulating Cancer Biology 2. Development of Flood Tolerant Rice Varieties 3. Transmission and Pathogenesis of Vibrio Cholerae in Environmental and Pathological Samples 4. Isolation and Identification of Food Borne Pathogens & their Antibiotic Resistance Pattern 	<p>aurchie.rahman@northsouth.edu</p>

Ahmed Ishtiaque	Lecturer	<ol style="list-style-type: none"> 1. Immunology 2. Oncology 3. Bioinformatics 	ahmed.ishtiaque@northsouth.edu
Mahjabeen Hossain	Lecturer	<ol style="list-style-type: none"> 1. Oral Microbial Disease 2. Oral Precancerous and Cancerous Tumor and Lesions 3. Salivary Proteomics 4. Type 2 Diabetic Mellitus and Bone Disorders 	mahjabeen.hossain@northsouth.edu
Fatimah Az Zahra	Lecturer	<ol style="list-style-type: none"> 1. T-lymphocytes 2. Natural killer (NK) cells 3. Cancer antigens or biomarkers 4. Epitope-focused vaccines 5. Antibodies 	fatimah.zahra@northsouth.edu
Nishat Shayala Islam	Lecturer	<ol style="list-style-type: none"> 1. Molecular Biology and Genetics 	nishat.islam@northsouth.edu
Md. Habibur Rahaman	Lecturer	<ol style="list-style-type: none"> 1. Protein Biochemistry 2. Structural Biology 3. Chemical Biology 	habibur.rahaman@northsouth.edu
Preyanka Nath	Lecturer	<ol style="list-style-type: none"> 1. Cancer Biology 2. Bioinformatics 3. Genetics 	preyanka.nath@northsouth.edu

Environmental Science & Management

Dr. Md. Jakariya	Professor	<ol style="list-style-type: none"> 1. Human Geography 2. Environmental Risk Assessment 3. Climate Change Adaptation 4. Migration and GIS 	md.jakariya@northsouth.edu
Dr. Hassan Mahmud	Professor	<ol style="list-style-type: none"> 1. Solid and Hazardous Waste Management 2. Waste to Resources/Energy 3. Water/Wastewater/Effluent Treatment 4. Environmental Health 5. Development and Utilization of Polymeric Membrane for Environmental Applications 	hassan.mahmud@northsouth.edu
Dr. Biswas Karabi Farhana	Professor	<ol style="list-style-type: none"> 1. Chemistry of Atmospheric Pollutions in South Asian Mega-cities 2. Source, Chemistry and Impacts of Winter Fog in the Indo-Gangetic Plains 3. Biogeochemistry of Atmospheric Aerosol and Precipitation in Marine and Terrestrial Atmosphere 4. Atmospheric Cycling of Halogen, Iron and Carbon 	biswas.farhana@northsouth.edu
Dr. Nazmul Ahsan Khan	Professor	<ol style="list-style-type: none"> 1. Eco-Health 2. Climate Change and its Impact on Health 3. Environmental Toxicity 4. Polluants, Toxicity and Health Impact 5. Bio-remediation of Heavy Metals 6. Carbon Sequestration in the Soil 7. Bio-waste and Municipal Waste Management and Utilization 8. Sustainable Agriculture Related to Climate Change in Bangladesh 	nazmul.khan@northsouth.edu
Dr. Kamrun Nahar	Associate Professor	<ol style="list-style-type: none"> 1. Renewable Energy-Biofuel 2. Climate Change: Adaptation and Mitigation Potential 3. Crop Physiology and Ecology 4. Soil Chemistry 5. Soil-Water-Plant Relationships 6. Crop Production: In Drought and Salinity 	nahar.kamrun@northsouth.edu

Dr. Saiful Momen	Assistant Professor	<ol style="list-style-type: none"> 1. Globalization and Urban Policy 2. Urban Environmental Management 3. Urban and Regional Planning 4. Development Studies 5. GIS and Statistical Analysis 	saiful.momen@northsouth.edu
Dr. Mohammad Sujauddin	Assistant Professor	<ol style="list-style-type: none"> 1. Industrial Ecology 2. Waste Management 3. Natural Resources Management 4. Forest Management 5. Visual Pollution 6. Environmental Policy 	mohammad.sujauddin@northsouth.edu
Dr. Mohammad Moshir Rahman	Assistant Professor & Chair	<ol style="list-style-type: none"> 1. Groundwater Arsenic Geochemistry 2. Fate and Transport of Groundwater Contaminants 3. Reactive Transport Modeling of Heavy Metals in Groundwater 4. Geographic Information System and Environmental Modeling 5. Water and Soil Quality Analysis 	mohammad.rahman@northsouth.edu
Tahmid Huq Easher	Senior Lecturer	<ol style="list-style-type: none"> 1. Implementation of IWRM in Small-scale Watershed 2. Capacity Building Towards Climate Resilient Community 3. Climate Applications (Adaptation, Coping, and Mitigation) 4. Water Governance 	tahmid.huq@northsouth.edu
Ahnaf Ahmed	Lecturer	<ol style="list-style-type: none"> 1. Mathematical Programming 2. Systems Analysis, 3. Optimization 4. Decision Support Systems 5. Operations Research 	ahnaf.ahmed@northsouth.edu
Raisa Bashar	Lecturer	<ol style="list-style-type: none"> 1. Environmental Economics 2. Economic Valuation of Ecosystem Services 3. Climate Change and Adaptation 4. Alternate Energy Resources 	raisa.bashar@northsouth.edu

Pharmaceutical Sciences

Dr. Hasan Mahmud
Reza

Professor

1. Molecular Biology and Biochemistry
2. Cell Culture
3. Tissue-engineering and Transplantation
4. Epithelial Culture for Human Transplantation
5. Embryology
6. Histology

hasan.reza@northsouth.edu

Dr. G M. Sayedur
Rahman

Associate
Professor
&
Chair

1. In Silico Drug design:
 - a. Virtual screening
 - b. De Novo Drug Design
 - c. Pharmacophore Drug Design
2. Molecular Docking
3. Molecular Dynamics
4. Molecular Mechanics
5. Substrate-protein Interaction
6. Protein-protein Interaction
7. Homology Modeling
8. AB Initio Protein Modeling
9. Ramachandran Plot
10. Protein/ small Drug Like Molecule Energy Minimization
11. Substrate Binding Pocket Identification
12. Substrate Interaction in Receptor Pocket
 - a. Hydrogen Bonding
 - b. Hydrophobic Interaction
 - c. Other Types
13. Pharmacophore Design
14. Database Search for new Drug Like Molecule
15. Drug re-purposing

sayedur.rahman@northsouth.edu

Dr. Preeti Jain

Associate
Professor

1. Pharmaceutical Microbiology
Biotechnology

preeti.jain@northsouth.edu

Dr. Md. Ashrafal Alam

Associate
Professor

1. CCl₄ Induced Cirrhotic Liver in Rats
2. 2K1C Goldblatt Hypertensive Rat Model
3. ISO Induced Cardiac Remodeling in Rats
4. High Fat Diet Induced Obesity in Rats and Natural Compounds

ashrafal.alam@northsouth.edu

Dr. Mohammad Hossain Shariare	Associate Professor	<ol style="list-style-type: none"> 1. Biodegradable and Biocompatible Nanoparticles of Phytoconstituents 2. Nano Drug Delivery System (particularly in poorly soluble drugs and targeted drug delivery systems) 3. Inhalation Drug Delivery System 4. Sustain and Controlled Release Drug Delivery System 5. Fundamentals of Material Science (particularly morphology, structure and mechanical properties of drug crystals) 	mohammad.shariare@northsouth.edu
Dr. Asim Kumar Bepari	Associate Professor	<ol style="list-style-type: none"> 1. Brain disorders 2. Neuroscience 3. In-silico Drug Discovery 4. Epidemiology 	asim.bepari@northsouth.edu
Dr. MN Islam	Associate Professor	<ol style="list-style-type: none"> 1. Liver Toxicity in Rodent model 2. Inflammation model and molecular basis of inflammation signaling 3. Neuropharmacology focusing on Parkinsonism disease in rat model 	mn.islam@northsouth.edu
Dr. Md. Mahbubur Rahman	Associate Professor	<ol style="list-style-type: none"> 1. Neuropharmacology (focusing inflammation at brain interface) 	rahman.mahbubur@northsouth.edu
Dr. Murad Hossain	Associate Professor	<ol style="list-style-type: none"> 1. Behavioral Neuropharmacology 	murad.hossain@northsouth.edu
Dr. Tahmina Foyez	Assistant Professor	<ol style="list-style-type: none"> 1. Neuroscience 	tahmina.foyez@northsouth.edu
Dr. Khondker Ayesha Akter	Assistant Professor	<ol style="list-style-type: none"> 1. Cancer Biology 2. Molecular Biology 3. Human Cancer Genomics 	khondker.akter@northsouth.edu
Dr. Nusrat Subhan	Assistant Professor	<ol style="list-style-type: none"> 1. Identifying and Quantifying of Polyphenols (specially, flavonoids) 2. Quantify Phenolic Compounds in Natural Products 	nusrat.subhan@northsouth.edu

Dr. Manik Chandra Shill	Assistant Professor	<ol style="list-style-type: none"> 1. Pharmacology 2. Clinical Pharmacy 3. Public Health 	manik.shill@northsouth.edu
Dr. Ferdous Khani	Assistant Professor	<ol style="list-style-type: none"> 1. Molecular Mechanism of Metabolic Syndrome and its Possible Mechanism of Improvement by Dietary Supplements and Phytochemicals 	khan.ferdous@northsouth.edu
Dr. Md. Ashrafur Rahman	Assistant Professor	<ol style="list-style-type: none"> 1. Novel Pharmacological and Behavioral Interventions for the Treatment of Alzheimer Disease and Dementia 2. The Involvement of Muscarinic Acetylcholine Receptors (mAChRs) and Nicotinic Acetyl Choline Receptors (nAChRs) during Discrimination Task by Using Hippocampus and Non-hippocampus Dependent Learning 	rahman.ashrafur@northsouth.edu
Dr. Shazid Md. Sharker	Assistant Professor	<ol style="list-style-type: none"> 1. Theranostic Nanomedicine 2. Low-Dimensional (1D, 2D) Nanomaterials 3. On-demand Drug delivery system 4. Photothermal heat & Cancer Therapy 	shazid.sharker@northsouth.edu
Dr. Hasanuzzaman Shohag	Assistant Professor	<ol style="list-style-type: none"> 1. Neuropsychiatric & Metabolic Disorders 2. Phosphoproteomics 3. Bioequivalence Study 	hasanuzzaman.shohag@northsouth.edu
Dr. Mohammad Ahad Ali Khan	Assistant Professor	<ol style="list-style-type: none"> 1. Natural Product Chemistry 2. Drug Design & Discovery 	mohammad.khan03@northsouth.edu
Tahmina Yasmin	Senior Lecturer	<ol style="list-style-type: none"> 1. Pharmacological Evaluation of Different Plant Extracts for Different Biological Effect (Analgesic, Anti-inflammatory, and Antimicrobial, Cytotoxic etc.) 	tahmina.yasmin@northsouth.edu
Md. Adit Muktadir Pavel	Senior Lecturer	<ol style="list-style-type: none"> 1. Pharmacoepidemiology 2. Patients Non-adherence 	adit.pavel@northsouth.edu

Dr. Nasrin Akhter	Senior Lecturer	1. Toxicological Studies based on Spectroscopic and Chromatographic Analysis	nasrin.akhter@northsouth.edu
A. F. M. Towheedur Rahman	Senior Lecturer	1. Anti-diabetic Drug Discovery	towheedur.rahman@northsouth.edu
Paromita Islam	Senior Lecturer	1. Pharmaceutical Technology 2. Nanotechnology	paromita.islam@northsouth.edu
Nusrat Hossain	Lecturer	1. Developing Herbal Formulations 2. Herbal Supplements of Carica papaya Leaves for Dengue Patients	hossain.nusrat@northsouth.edu
Zarin Tasnim Gias	Lecturer	1. Pharmacology	zarin.gias@northsouth.edu
Sadia Shabnam	Lecturer	1. Pharmacologic Animal Model-Parkinson Disease Model	sadia.sabnam@northsouth.edu
Tabinda Islam	Lecturer	1. Pharmaceutical Technology (Formulation Development, Method Development, Method Validation, ODTs, Factorial Design)	tabinda.islam@northsouth.edu
Sabrin Islam Khan	Lecturer	1. Molecular Biology 2. Pharmaceutical Technology	sabrin.khan@northsouth.edu

Public Health

Dr. Gias U. Ahsan

Dean
&
Professor

1. Epidemiological studies of Infectious, Tropical and emerging diseases
2. Action Research on Non Communicable Diseases of high importance (Cancer, Heart diseases, DM and Kidney diseases)
3. Policy Research on Maternal and Child Health
4. Descriptive Epidemiology of Obesity and Malnutrition
5. Application of state-of-the-art technologies to address and combat Multi-drug Resistant (MDR) and Bacterial species
6. Study for identification of biomarkers for Hereditary, Cancers and Kidney diseases
7. Genomic characterization of high- priority organisms (such as Dengue and Chikungunya) involved in seasonal outbreaks in Bangladesh

gias.ahsan@northsouth.edu

Dr. Dipak K. Mitra

Professor

1. Maternal, Neonatal, and Child Health
2. Chronic Diseases in Developing Countries including Bangladesh
3. Low-cost Interventions to Improve Population Health at the Community Level within Existing Health Systems and Measuring their Impact
4. Design and Maintenance of Research Surveillance Site
5. Clinical Trial and Epidemiological Studies
6. Data Analysis Using Advanced Analytical Techniques

dipak.mitra@northsouth.edu

Dr. Ahmed Hossain

Professor

1. Methodological Research in the Areas of High Dimensional Data Analysis
2. Breast Cancer and Impact of Calorie Restriction Diet on Different Types of Cancers
3. Pharmaceutical Research (phase I-IV analysis)

ahmed.hossain@northsouth.edu
ahmed.hossain@utoronto.ca

<p>Dr. Mohammad Delwer Hossain Hawlder</p>	<p>Associate Professor</p>	<ol style="list-style-type: none"> 1. Childhood Nutritional Deficiency 2. Chronic and Infectious Diseases 3. Non-communicable Diseases (NCD) 4. Maternal and Child Health 5. Climate Change and its Effect on Infectious diseases and Socioeconomic Perspective in Bangladesh 6. Telemedicine and m-Health 	<p>mohammad.hawlder@northsouth.edu</p>
<p>Dr. Ariful Bari Chowdhury</p>	<p>Senior Lecturer</p>	<ol style="list-style-type: none"> 1. Psychiatric Morbidity of Chikungunya and Infectious Disease 2. Non-Communicable Diseases (Diabetes) and its Associated Complications (Retinopathy) 3. Telemedicine and m-Health (E-health) 	<p>arif.chowdhury@northsouth.edu</p>
<p>Dr. Mohammad Hayatun Nabi</p>	<p>Senior Lecturer</p>	<ol style="list-style-type: none"> 1. Occupational Health Safety Issues on Productivity 2. Health Service Inequalities under Compliance and Noncompliance Settings 	<p>mohammad.nabi@northsouth.edu</p>
<p>Shahnaz Parveen</p>	<p>Senior Lecturer</p>	<ol style="list-style-type: none"> 1. Special Needs Education 2. Disability Laws and Rights 3. Adolescent Health 4. Health Behaviour 5. Information, Education and Communication 6. Teaching Learning 	<p>shahnaz.parveen@northsouth.edu</p>
<p>Afrin Ahmed Clara</p>	<p>Senior Lecturer</p>	<ol style="list-style-type: none"> 1. Adolescents health 2. Incorporating Metformin with national protocol of Tuberculosis treatment 3. Non communicable disease and its complications 4. Adolescent resilience: A framework for positive mental health 5. Depression and suicidality among adolescent 	<p>afrin.clara@northsouth.edu</p>

<p>Yamin Tauseef Jahangir</p>	<p>Lecturer</p>	<ol style="list-style-type: none"> 1. Marginalized Community 2. Refugee Reproductive Health 3. Slum Community Setting 4. Qualitative Research Methodology 5. Equitable Access to Health Care 6. South-South Technical Assistance 7. Psychosocial Environment of Patient 8. Health-seeking Behavior 	<p>yamin.jahangir@northsouth.edu</p>
<p>Samiul Hossain</p>	<p>Lecturer</p>	<ol style="list-style-type: none"> 1. Developmental Psychopathology 2. Adolescents Psychopathology and Mental Health Issues 3. Cognitive Emotion Regulation 4. Emotion Regulation 5. Early Intervention and Prevention of Psychological Difficulties 6. Malnutrition and its Association with Psychological Factors 7. Working Alliances and Therapeutic Outcomes 8. Behavioral Aspects on Health 	<p>samiul.hossain@northsouth.edu</p>
<p>Sadia Chowdhury</p>	<p>Lecturer</p>	<ol style="list-style-type: none"> 1. Women Rights and Gender Equality 2. Gender and Health Care in Bangladesh 3. Violence against Women and Girls 4. Sexual and Reproductive Health Rights 5. Adolescent Health and Emotional Well-being 6. Urban Livelihood and Sanitation 7. Indigenous Culture and Society 8. Mental Health 	<p>sadia.chowdhury@northsouth.edu</p>
<p>Segufta Dilshad</p>	<p>Lecturer</p>	<ol style="list-style-type: none"> 1. Health Literacy 2. Non-Communicable Disease and Lifestyle Modifications 3. Healthcare Service Quality 4. Patient Rights and Empowerment 5. Health Promotion 	<p>segufta.dilshad@northsouth.edu</p>

Shakina Sultana

Lecturer

1. Infectious Diseases, Especially in Children Under 5-years of Age in Bangladesh
2. Maternal and Child Health (early childhood development and child discipline)
3. Non-communicable Diseases (NCDs), Especially Oral Cancer and its Premalignant Lesions
4. Environmental and Occupational Health in Bangladesh

shakina.sultana@northsouth.edu

Prasenjit Mondal

Lecturer

1. Gut microbiota and its impact on human health, especially nutrition, immune system, and disease progression.
2. Novel diagnostic and therapeutic approaches for Tuberculosis.
3. Combination of genomic data and machine learning techniques to develop better predictors/models for human health and diseases.
4. Clinical and Public health nutrition with special focus on micronutrient metabolism
5. Infectious diseases with a special focus on Neglected Tropical Diseases (NTD)
6. Clinical Trials

prasenjit.mondal@northsouth.edu

NSU Global Health & Climate Research
Institute (NGH&CRI)

1. The Sustainable Development Goals (SDGs)
2. Maternal, Newborn and Child Health (MNCH)
3. Sexual Reproductive Health and Nutrition
4. Non-Communicable Diseases (NCD)
5. Emerging & Re-emerging Diseases
6. Health System Strengthening
7. Training & Capacity Building for Young Leadership
8. Evidence Generation

Prof. Dr. G.U. Ahsan
Executive Director
gias.ahsan@northsouth.edu

Dr. Mohammed Aminul Islam
Director
maminul.islam@curtin.edu.au

Dr. Nizam Uddin Ahmed
Director
nizam.ahmed01@northsouth.edu

Khadija Leena
Assistant Professor & Director
khadija.leena@northsouth.edu

Mobashera Jahan
Coordinator
mobashera.jahan@northsouth.edu

Current Projects

1. Reducing Dietary Related Risks Associated with Non-Communicable Disease in Bangladesh (RDRNCD)
2. Socio-economic Evaluation of A Multi-sensor Remote Sensing Approach to Predict Cholera

Funded by

International Development Research
Center(IDRC), Canada

The National Aeronautics and Space
Administration (NASA)

NSU Genome Research Institute (NGRI)

1. Prevalence of Multidrug-resistant Pathogen in Hospital Care Settings
2. Effect of Chlorination on Gut Microbiota
3. Comparative Genomics Analysis of *Vibrio* spp. Isolated from Different Environmental Sources
4. Genomic Characterization of Virulence Factors of Fish Pathogens Using Next Generation Sequencing Technology
5. Comparative Genomics and Evolutionary Biology Analysis of *Escherichia coli* Isolated from Different Environmental and Clinical Sources
6. Whole Genome Sequencing and Analysis of Virulence Properties of *Vibrio cholerae* Isolated from Different Environmental Sources
7. Genomic Characterization of Plant Growth Promoting Bacterial Endophytes
8. Genotypic and Phenotypic Characterisation of Bacterial Pathogens (*Acinetobacter*, *Pseudomonas*, *Serratia*, *E. coli*, *Klebsiella* spp.) Isolated from Hospital Care Settings
9. Biobanking and Genetic Analysis (Identifying Potential Genetic and Epigenetic Markers for Intervention of Different Maternal, Neonatal and Child Health-related Adverse Conditions)
10. CARE Bangladesh: Cholera Antibiotic Resistance in Bangladesh: big data mining and machine learning to improve diagnostics and treatment selection

Prof. Dr. G.U. Ahsan
Executive Director
gias.ahsan@northsouth.edu

Dr. Muhamad Maqsud Hossain
Director
muhammad.maqsud@northsouth.edu

South Asian Institute of Policy & Governance (SIPG)

Confucius Institute

Sk. Tawfique M.
Haque, PhD

Professor
&
Director

1. South Asian Governance Theories
2. Local Governance
3. Globalization & International Trade Regimes
4. Administrative Culture & Behavior
5. Civil Society
6. Aid Agencies Model of Governance

tawfique.haque@northsouth.edu

Dr. Salahuddin M
Aminuzzaman

Professor
&
Adviser

1. Public Policy
2. Governance
3. Local Government
4. Public Administration
5. Corruption and Integrity

saminuzzaman@gmail.com

Dr. M Mahfuzul
Haque

Adjunct
Faculty

1. Citizen's Trust
2. Public Administration
3. Youth Mobilization

mahfuzul354@gmail.com

Dr. Zhou Weiwei

Chinese
Director

1. Cultural Studies
2. Chinese Language and Cultural Heritage
3. Cultural Tourism Research

zhou.weiwei@northsouth.edu

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