



Office of the Vice-President for Graduation
Studies,
Research and Innovation



LETTER FROM THE VICE- PRESIDENT´S OFFICE

UPE celebrates its 25th anniversary as a University with a view to the future, seeking excellence in Research and Innovation. The investment in the Undergraduate Research, Graduate, and Innovation Programs have been key to the growth of UPE by increasing its visibility and importance within the State of Pernambuco.

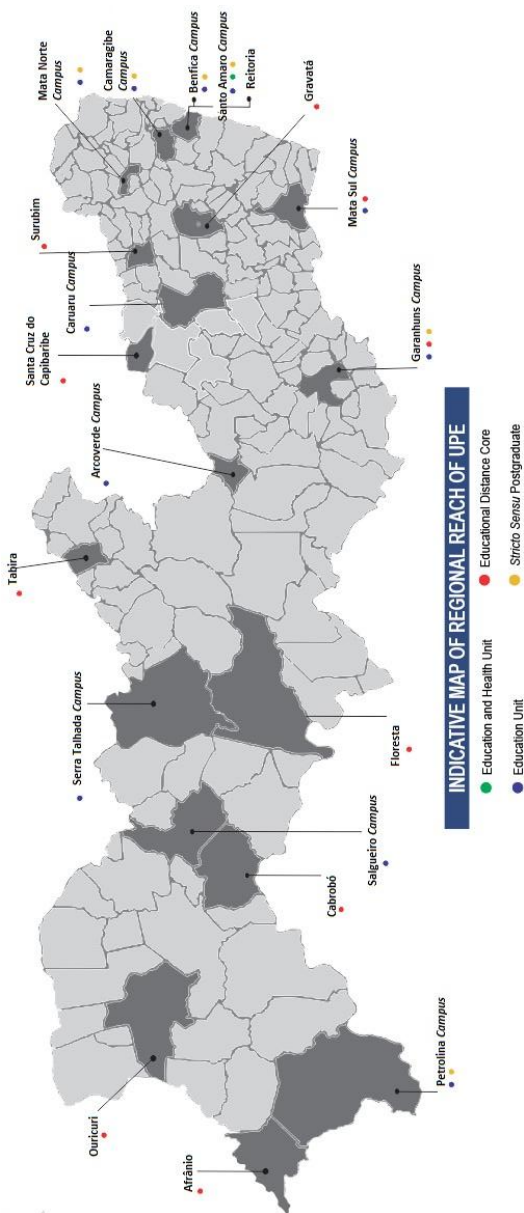
For the next 10 years, consolidation of Research and *Stricto Sensu* Programs will be a goal to be pursued, not only to obtain CAPES higher scores, but also contribute to the strengthening of Pernambuco state actions as well as to the qualification of personnel required by productive, industrial and educational sectors. Above all, I emphasize that this process requires investment focused on securing doctors in UPE academic programs. Today we are heavily investing in the support of qualified scientific production as well as in the process of internationalization and qualification of research laboratories with a view to consolidation of the *Strict Sensu* in UPE.

Therefore, the research groups here listed, whether or not linked to postgraduate studies, provide information about those responsible for the scientific production of UPE.

Maria Tereza Cartaxo Muniz

Vice-President of Graduate Studies, Research, and Innovation

UNIVERSITY OF PERNAMBUCO REGIONAL REACH



GRADUATION

PROPEGI means the Vice-President's Office for Graduate Studies, Research, and Innovation of the University of Pernambuco whose mission is to lead, coordinate, and support efforts and productions of the institution in the areas mentioned.

2015 FULL LIST OF RESEARCH GROUPS:

A GUIDE BY SUBJECT

AGRARIAN SCIENCES (1)

- Natural Resources of Caatinga

BIOLOGICAL SCIENCES (17)

- Biodiversity
- Environmental Biology (2)
- Biochemistry of Macromolecules
- Biotechnology and Innovative Therapeutics
- Agricultural Crops and Caatinga at San Francisco River Valley
- Genetic and Ecological Diversity of Insects
- Ecology of Aquatic Ecosystems
- Fungi of Biotechnological Importance

- Animal and Human Genetics
- Ethnoecology and Ecology of Tropical Fish
- Medical and Applied Microbiology
- Biological Modeling
- Environmental Monitoring in Coastal Areas
- Applied Morphology
- Morphology and Systematics of Angiosperms with Emphasis on Semiarid Flora
- Systematics, Ecology and Management of the Tropical Biota

HEALTH SCIENCES (54)

- Evaluation of Human Performance– ESEF
- Biomaterials used in Dentistry
- Biophotonics in Health Sciences
- Oral Cancer
- Forensic Sciences (Legal Medicine and Legal Dentistry/Civil, Penal and Constitutional Law)
- Oral and Maxillo facial Surgery
- Diagnostic Imaging
- Infectious and Parasitic Diseases
- Infectious Diseases in Adults
- Education for Health
- Endoativa- Techniques for Facilitating Endodontic Procedures

- Between the Fields of Experience and Management: body practices and their management: sport; dance; fights; recreational and leisure activities
- Clinical Epidemiology
- Epigenetics, Immunobiology and Pathophysiological Mechanisms and Alternative Therapies
- Studies in Dermatology
- Studies in Hematology
- Studies in Health, Rehabilitation and Functional Performance
- Ethnographic Studies in Physical Education and Sport (ETHNOS)
- Exercise and Chronic Non communicable Diseases
- Cardiovascular Nursing Care Fundamentals and Practices
- Research and Extension Group on Care, Social Practices and Right to Health (GRUPEV)
- Care and Research Group in Mental Health and Quality of Life
- Study Group on Hemotherapy
- Study Group on Integrated Health Service Networks
- Study and Research Groups on Women (GPEM)
- Study and Research Group on Violence
- Study and Research Group on Epistemology and Care Fundamentals in Health and Nursing
- Study and Research Group on Nursing in the Promotion of Health for Vulnerable Populations
- Study Group on Stomatherapy
- Study Group Gastrohepatology

- Study and Research Group on Public Health (GEPSC)
- Research Group on General Surgery and Liver Transplantation– FCM
- PROCAPE Research Group on Cardiovascular Diseases
- Research Group on Sport and Management (GEQUIP) - ESEF
- Grupo de Pesquisa em Estilos de Vida e Saúde (GPESUPE)
- Research Group on Life Styles and Health (GPESUPE)
- Research Group on Hemodynamics and Exercise Metabolism
- Research Group on Humanization and Arts in Health
- Research Group on Public Health
- Research Group on Health Informatics (GPIs)
- Research Group on Human Motor Behavior and Health
- Research Group on Human Performance – Petrolina Campus
- Hebiatrics
- Bone Metabolism
- Nutrition, Food and Health – Petrolina Campus
- Otolaryngology- FCM
- Endemic and Chronic Degenerative Pathologies in Brazil
- Clinical Research - FOP
- Practices and Technologies to Promote Patient Safety in Health Care
- Policy, Planning, Management and Education in Health (PRAXIS)
- Acute and Chronic Non-transmissible Disease Care Process
- Project: Population Ageing in Pernambuco State(PROENP-PE)
- Women’s Health
- Research Center for Health in the Hinterland (HEALTHY HINTERLAND)
- Health, Illness, and Healing Theories and Practices

EXACT SCIENCES AND ART SCIENCES (11)

- Software Engineering
- Study of Marine Biota at UPE
- Mathematical Studies and their Trends
- Photonics and Applied Electromagnetism
- Advanced Study Group on Information and Communication Technology (GREAT)
- Research Group on Embedded Systems (GPSE)
- Socio-Environmental Study on Drainage Basins (HIDROCAMPUS)
- Computational Intelligence (CIRG@UPE)
- Southern Agreste Center for Socio-Environmental Studies
- Landscape and Natural Heritage
- Pattern Recognition

HUMANITIES (26)

- Anthropology and Sustainable Local Development
- Application of Information and Communication Technologies to Educatio (APLIC)
- Anthropology, Religiosity, Gender, Interculturalism, Languages and Education (ARGILEA)
- Science, Philosophy and Religion: the Knowledge Unit
- Skills: Required Learning and Curriculum
- Consciousness and Spirituality

- Development of Space, Territory and Region (GPDeTER)
- Diversità: Social Diversity and Identity. Old Age, Contemporaneity, Sexual Diversity and Education
- Study Group on Phenomenological Aspects of Semantics, Semiotics, Culture and Education (GEFASCE)
- Sociocultural History of Latin America (GEHSCAL)
- Language Teaching (GEPEL)
- Systemic Studies on Northeast Semiarid Region((GESSANE)
- UPE Sciences and Mathematics Teaching Group
- Research and Study Group on Formal and Non-Formal Education in Pernambuco Hinterland
- Research Group on São Francisco Valley Society and Nature
- Interdisciplinary Research Group on Teacher Training, Politics and Management
- Interdisciplinary Group of Social Representations and Training in Education and Environment
- History and Memory
- Cultural Identities: Preservation and Transience in the African-Brazilian Culture
- Laboratory of Studies on Collective Action and Culture (LACC)
- Group for Education in Ancient History
- Language, Cognition and Subjectivity
- Study and Research Center on Youth and Adult Education
- The Place of Interdisciplinarity in Paulo Freire's Discourse
- Psychology, Health and Family

- Integrated Health and Multidisciplinary Team

APPLIED SOCIAL SCIENCES (05)

- Law and Conflict Coming Arising from Post-Modernity
- Sustainable Local Development Management
- Productive Infrastructure and Logistics for the Sustainable Local Development
- Center for Research in Public Sector Economics (NUPESP)
- NUPOP

ENGINEERING (15)

- Applied Engineering to the Environment (AMBITEC)
- Life Cycle Assessment of Building Materials -
- Coordination of Environmental Studies
- Sustainable and Secure Development (DESS)
- Ergonomics, Hygiene and Safety at Work
- Applied Physics and Computational Mathematics (FAMAC)
- Electrical Energy Management
- Study Group on Industrial Maintenance
- Research Group on Renewable Energy (RSPG)
- Research Group on Network Protocols (PRPG)
- Research Group on Networks and Communications (GPRC)
- Public Policies for Accessibility, Inclusion and Assistive Technology

- Biotechnological Processes and Products
- Maintenance and Automation in Welding
- Technology and Building Construction Management (POLITECH)

LINGUISTICS, LITERATURE AND ARTS (03)

- UPE Linguistic and Literary Studies Center (CELLUPE)
- Discursive Practices, Social Interaction and Education (DISCENS)
- Comparative Studies Group: Literature and Interdisciplinarity (GRUPEC)

TECHNOLOGICAL INNOVATION AND TECHNOLOGICAL QUALIFICATION

In 2015, PROPEGE became PROPEGI - Pro-Rectorcy of Graduate Programs, Research and Innovation- so that the new strategic vision of the University of Pernambuco would be reflected in its name. The generation of innovative ideas, processes and products, as well as the development of modern concepts of technological innovation among its staff, researchers, teachers and students became an aim.

One of the actions of the Innovation axis aims to restructure and streamline the Technological Innovation Center – NIT - with the purpose of providing guidelines for protection of inventions generated within UPE as well as assist in the transfer process of this knowledge and products to the productive sector.

UPE is also on the verge of creating the Institute for Technological Innovation (IIT), which is to be based on Parqtel (Electrical - Electronic Park and Related Technologies of Pernambuco State Government). The IIT aims at creating laboratories for development of innovative products and processes via association of UPE with Institutes of Science and Technology and/or Companies. It also aims at fostering new ideas that might result in patents.

LATO SENSU COURSES

BENFICA CAMPUS

PERNAMBUCO BUSINESS ADMINISTRATION SCHOOL (FCAP)

SPECIALIZATION COURSES

- Financial Management
- Management of Human Capacity in Organizations
- Organizational Planning and Management
- Business Management
- MBA in Marketing
- MBA in People Management
- MBA in Cost Management and Control
- MBA in Cost Management and Control II
- MBA in Healthcare Services and Hospital Management
- MBA in Business Logistics

- MBA in Organizational Planning and Management
- MBA in Public Prosecutor's Office Management
- Public Planning and Management

BENFICA CAMPUS

ENGINEERING SCHOOL (POLI)

SPECIALIZATION COURSES

- Technology and Construction Management of Buildings
- Quality and Productivity Management
- Safety at Work Engineering
- Embedded Systems
- Software Engineering
- Construction and Assembly Work in Engineering
- Welding Engineering
- Renewable Energy
- Inspection, Management and Recovery of Structures

CAMARAGIBE CAMPUS

PERNAMBUCO DENTAL SCHOOL (FOP)

SPECIALIZATION COURSES

- Surgery and Oral & Maxillofacial Trauma
- Dentistry

- Dental Implant

RESIDENCY

- Surgery and Oral &Maxillofacial Trauma(HUOC)
- Surgery and Oral &Maxillofacial Trauma(HR)
- Surgery and Oral & Maxillofacial Trauma(HGV)
- Surgery and Oral & Maxillofacial Trauma(HRA)

GARANHUNS CAMPUS

SPECIALIZATION COURSES

- Teaching of Portuguese Language and its Literatures
- Psychopedagogy
- Public Health
- School Supervision and Educational Management
- Mental Health and Psychosocial Intervention
- Biology Teaching

MATA NORTE CAMPUS

SPECIALIZATION COURSES

- Applied Linguistics to Portuguese Language Teaching
- General Microbiology
- Psychopedagogy

PETROLINA CAMPUS

SPECIALIZATION COURSES

- Psychopedagogy
- Geography Teaching
- History of Brazil – Culture and Power
- Portuguese Language: A Didactic Perspective
- UPE Intensive Physiotherapy

SANTO AMARO CAMPUS

SUPERIOR SCHOOL OF PHYSICAL EDUCATION (ESEF)

SPECIALIZATION COURSES

- Cardiopulmonary and Metabolic Rehabilitation
- Physical Activity and Public Health
- Strength Training for Health
- Physical Education
- Evaluation of Human Performance
- Sports Training

SANTO AMARO CAMPUS

MEDICAL SCHOOL (FCM)

SPECIALIZATION COURSES

- Cardiac Arrhythmias
- Cardiology
- Gastroenterology
- Geriatrics
- Hemodynamics and Interventional Cardiology

RESIDENCY PROGRAMS

- Anesthesiology
- Neurology
- Dermatology
- Clinical Medicine
- Thoracic Surgery
- Clinical Oncology
- Surgical Oncology
- General Surgery
- Laparoscopy
- Infectious Diseases
- Gastroenterology
- Geriatrics
- Family and Community Medicine

- Pediatric Neurology
- Pediatrics
- Urology
- Mastology
- Obstetrics and Gynecology
- Cardiovascular Surgery
- Invasive Electrophysiology
- Hemodynamics
- Cardiology
- Echocardiography
- Multi-professional Residency in Public Health
- Integrated Multi-professional Residency in Family Health
- Multi-professional Residency in Mental Health

SANTO AMARO CAMPUS

NOSSA SENHORA DAS GRAÇAS NURSING SCHOOL (FENSG)

SPECIALIZATION COURSES

- Nursing Nephrology
- Women's Health
- Public Health – Management of Systems and Health Actions
- Advanced Life Support Nursing: Emergency and ICU

RESIDENCY PROGRAMS

- Psychiatric Nursing
- Nursing in Pre-hospital Care
- Nursing in Cardiology at Agamenon Magalhães Hospital
- Infectious Diseases Nursing
- Nursing in Oncology
- Women's Health at Amaury de Medeiros Integrated Health Center (CISAM)
- Women's Health at Agamenon Magalhães Hospital
- Restoration Hospital Surgical Center (RH)
- Nursing in Specialized Cardiac Care at Pernambuco University Cardiac Emergency Hospital - (PROCAPE)
- Restoration Hospital General Emergency (RH)
- Neurology / Neurosurgery at Restoration Hospital - (HR)
- Intensive Care Unit at Restoration Hospital (RH)
- Cardiac Nursing at Pernambuco University Cardiac Emergency Hospital - (PROCAPE)
- Nursing in Hematology and Hemotherapy at HEMOPE Foundation-Hospital

SANTO AMARO CAMPUS

BIOLOGICAL SCIENCES INSTITUTE (ICB)

SPECIALIZATION COURSES

- Molecular Biology
- Clinical Microbiology
- Expertise, Audit and Environmental Management
- Health of the Elderly
- Biology Education (EAD)
- Hematology
- Clinical Pathology

RESIDENCY PROGRAMS

- Psychology: Mental Health
- Clinical Nutrition at Pernambuco University Cardiologic Emergency Hospital - (PROCAPE)
- Clinical Nutrition at Oswaldo Cruz University Hospital - HUOC
- Urgent Care, Emergency and Trauma at Getúlio Vargas Hospital - HGV
- HEMOPE Foundation Pharmacy
- Restoration Hospital Pharmacy

STRICTO SENSU PROGRAMS

- Master and Ph.D. in Cell Biology
- Master and Ph.D. in Health Sciences
- Ph.D. in Biotechnology (RENORBIO)
- Master and Ph.D. in Nursing
- Master and Ph.D. in Dentistry
- Master and Ph.D. in Physical Education
- Professional Master in Surveillance and Health
- Master in Forensic Skills
- Professional Master in Psychology – Practices and Innovation in Mental Health
- Master in Hebiatrics
- Professional Master in Education
- Master in Language Studies
- Professional Master of Arts – PROFLETRAS
- Faculty Graduation Program and Interdisciplinary Practices
- Master in Civil Engineering
- Master in Computer Engineering
- Master in Systems Engineering
- Master in Management of Sustainable Local Development
- Master in Power Technology

PROGRAMS

ACADEMIC ENHANCEMENT PROGRAM (PFA)

The Academic Enhancement Program (PFA) was created in 2009 with the goal of raising the quality level of academic activities in teaching, research and extension in UPE. Initially, over R \$ 1.2 million was invested. Today, that number raised to nearly R \$ 2.7 million, resulting in an increase of 125%.

For the first time, UPE was able to design an Academic Enhancement Program based on transparency and selection through public notices. Supporting students, faculty, research and extension are the program foundation.

INSTITUTIONAL SCIENTIFIC INITIATION SCHOLARSHIP PROGRAM (PIBIC)

The Institutional Scientific Initiation Scholarship Program (PIBIC) aims to support the Scientific Initiation policy developed in the Institutions of Education and / or Research through the granting of Scientific Initiation Scholarships (IC) to undergraduate students. The subsidy (IC) is directly bestowed to the institutions responsible for selecting research projects submitted by faculty members interested in participating in the program. Students become fellows from the statement of the faculty research advisors.

The PIBIC - AF program is a partnership between Affirmative Action Policies of the Special Secretariat for the Promotion of Racial Equality of the Presidency (SUBPAA / SEPPIR-PR) and the National Council of Scientific and Technological Development of the Ministry of Science and Technology (CNPq / MCT) whose aim is to broaden the opportunity for technical and scientific training of higher education students who have entered the university through affirmative action policy. They contribute to making UPE a Centre of Excellence in the production of scientific knowledge.

INSTITUTIONAL SCHOLARSHIP PROGRAM TO TEACHER TRAINING (PIBID)

The PIBID is an initiative for the improvement and enhancement of the Teacher Training Course for basic education. The program provides grants to undergraduate teacher training course students who participate in Initiation to Teacher Training Projects developed by higher education institutions (IES) in partnership with elementary public schools. Projects should promote the integration of these undergraduate students in the context of public schools from the beginning of their academic training so that they develop didactic and educational activities under the guidance of a faculty member and a school teacher.

SCIENCE WITHOUT BORDERS (CSF)

Science without Borders is a Brazilian Government scholarship program that seeks to promote the consolidation, expansion and internationalization of science and technology through exchange and interna-

tional mobility programs, as well as innovation and Brazilian competitiveness. The initiative is the result of joint efforts of the Ministries of Science, Technology and Innovation (MCTI) and the Ministry of Education (MEC), through their respective funding agencies - CNPq and Capes- and the Higher Education and Technological Education Departments of MEC.

CONTINUING EDUCATION PROGRAM OF SCHOOL MANAGERS IN PERNAMBUCO (PROGEPE)

The Continuing Education Program of School Managers in Pernambuco has three phases: Professional Improvement, Specialization and Master.

COMPUTER AND LANGUAGES PROGRAM (PROLINFO)

PROLINFO - as part of the University of Pernambuco (UPE) extension program - was established in 2002 in order to offer language (English, Spanish and Portuguese) and computing courses not only to the academic community of UPE, but also to society as a whole. The program also contributes to the teacher training program of undergraduate students. Those in Literature and Informatics, closely guided by a team of coordinators, act as teachers for the courses.

NATIONAL BASIC EDUCATION TEACHER TRAINING PLAN (PARFOR)

The PARFOR on-site program, implemented by CAPES, is aimed at collaborating with the State, Federal District and Municipal Education

Departments as well as with Higher Education Institutions (HEIs) to strengthen the demand for free higher education by teachers working at public basic education as required by the National Education Bases and Guidelines Law.

COIMBRA GROUP OF BRAZILIAN UNIVERSITIES (GCUB)

The Coimbra Group of Brazilian Universities (GCUB) was formally established as an association of university leaders in 2008. The GCUB consists of national federal, state, religious and community universities who recognize the Coimbra institution as alma mater. Its mission is to promote inter-agency and international integration through faculty and student mobility programs.

CONFUCIUS INSTITUTE

The Confucius Institute is a nonprofits educational institute. It aims to support and promote the teaching of the Chinese language and culture, as well as enhance bilateral understanding and friendship among peoples; strengthen cooperation and exchange in educational and cultural area; develop friendly relations between China and foreign countries and stimulate multi-polarization and multiculturalism in order to build a more harmonious world.

The Confucius Institute comes to Recife as a result of an agreement between UPE and the Headquarters of Confucius Institute (Hanban), in partnership with the Central University of Finance and Economics in Beijing. It aims to teach the Chinese language, train Chinese language

teachers, provide books and teaching materials, conduct the HSK examination and certification, provide consultation service on Chinese education and culture, organize Chinese festive and cultural activities and perform linguistic and cultural exchange between China and Brazil. The Confucius Institute at UPE, first in Northeast Brazil, is a key platform for the teaching of Chinese language and culture in this region.

University of Pernambuco– UPE

President: Pedro Henrique de Barros Falcão

Vice-President: Maria do Socorro de Mendonça Cavalcanti

Vice-President for Administration and Finance: Rivaldo Mendes de Albuquerque

Vice-President for Undergraduate Education: Luiz Alberto Ribeiro Rodrigues

Vice-President for Graduate Studies and Research: Maria Tereza Cartaxo Muniz

Vice-President for Extension and Culture: Renato Medeiros de Moraes

Vice-President for Personnel Management: Vera Gregório

Senior International Relations Officer: José Guido Corrêa de Araújo

Student Mobility Coordinator: Marco Antonio Japiassu

Press Advisors: Natália Freire and Marília Falcão

Ombudsman's Office: Maria do Rosário Lapenda and Eliana Pereira

Chief of Staff: Arine Lyra

Institutional Relations Advisor: Norma Gouveia

Physical Education School (ESEF)

Dean: Vera Lúcia Samico Rocha

Business Administration School (FCAP)

Dean: Marcos Aurélio de Souza Meira

School of Medical Sciences (FCM)

Dean: Dione Tavares Maciel

Nossa Senhora Das Graças Nursing School (FENSG)

Dean: Viviane Tannuri F. Lima Falcão

UPE Garanhuns Campus

Dean: Clóvis Gomes da Silva Jr.

UPE Mata Norte Campus - UPE Mata Sul Campus

Dean: Maria Auxiliadora Leal Campos

UPE Petrolina Campus

Dean: Moisés Almeida

Dental School (FOP)

Dean: Emanuel Sávio de Souza Andrade

Biological Sciences Institute (ICB)

Dean: Rita de Cássia de Moura

Engineering School (POLI)

Dean: José Roberto de Souza Cavalcanti

Oswaldo Cruz University Hospital (HUOC)

Director: Izabel Avelar

Amaury de Medeiros Integrated Health Center- CISAM

Director: Olímpio Barbosa de Moraes Filho

Pernambuco University Cardiologic Emergency Hospital- PROCAPE

Director: Sérgio Tavares Montenegro

Nucleos of Distance Education - NEAD

Director: Renato Morais

PROPEGI TEAM

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PROPEGI –OFFICE OF THE VICE-PRESIDENT FOR GRADUATION, RESEARCH, AND INNOVATION

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Garanhuns Campus

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Mata Norte Campus

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Petrolina Campus

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Santo Amaro Campus

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- ICB - (81) 3183 3311