

Capability Statement



University of Belgrade
**Scientific Institution Institute of Chemistry,
Technology and Metallurgy**
National Institute



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Overview

Institute of Chemistry, Technology and Metallurgy is scientific, non-profit institution and is registered for research and development in the fields of:

- Fundamental researches in chemistry, chemical engineering and catalysis, microelectronic and material sciences.
- Development of new technologies and applied research in chemistry, chemical engineering and catalysis, and material sciences
- Providing of services and analysis and characterization of broad spectrum of materials, including but not limited to chemicals, complex mixtures of organic and inorganic compounds, pharmaceutical drugs, pesticides, food analysis, environmental samples, monitoring of environmental (water, air and soil), consulting in engineering and process industry, design and construction of microelectronic devices.








Areas of Research Activities

Research and development in **Institute of Chemistry, Technology and Metallurgy** are organized through these main scientific areas

- **Fundamental and applied research in the fields of chemistry and chemical technology**, which comprise: synthetic organic and medicinal chemistry, isolations and characterizations of natural products from plants, marine and microorganisms, environmental chemistry including bioremediation and organic geochemistry, food chemistry and biochemistry, experimental biochemistry including enzymology and biotechnology, chemical catalysis, electro-catalytic sensors, nano-chemistry, polymers, nonlinear dynamics of complex physico-chemical processes, electrochemistry, theoretical chemistry and solvothermal synthesis of multicomponent materials.
- **Fundamental and applied research in the field of material sciences** which comprise: processes of electrochemical deposition, protecting surface materials, polymer membranes based on zeolites, polymer-bounded composite materials based on nano-crystals Nd-Fe-B magnetic alloys and ferrite materials, sintered friction materials, alternative restorable fuels, functionalized nanostructured catalysts.
- **Fundamental and applied research in the field of microelectronic technology** which comprise: micro- and nanosystem sensors and components, design and construction of microelectronic devices, building-blocks for microsystems, prototypes of sensor components, industrial measuring system based on MEMS/NEMS components.

Organization

Seven departments:

-  Department of Chemistry
-  Department of electrochemistry
-  Department of catalysis and chemical engineering
-  Department of microelectronic technologies
-  Department of materials and metallurgy
-  Department of remediation
-  Department of ecology and techno-economy

Two centres of excellences:

- Center of excellence in microelectronic technologies
- Center of excellence in Environmental Chemistry and Engineering

Two accreditation laboratories:

- Accreditation No: 01-105. Standard SRPS/ISO/IEC 17025:2006
- Accreditation No: 01-274. Standard SRPS/ISO/IEC 17025:2006