



2003 RESEARCH & DEVELOPMENT POLICY



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RESEARCH AND DEVELOPMENT POLICY

UNIVERSITI TEKNOLOGI MALAYSIA

1.0 POLICY STATEMENT

- 1.1 The Research and Development (R&D) Policy of Universiti Teknologi Malaysia (UTM) is to provide a framework for the development of a research culture within UTM, to improve research performance, and to achieve high quality outputs.
- 1.2 The Research and Development Policy of UTM shall promote R&D activities as complementary to teaching so as to improve the quality of education and human resources.
- 1.3 The R&D Policy of UTM shall be supportive of the University's aspiration to be a Research University.
- 1.4 The Research and Development Policy of UTM shall contribute towards the creation of wealth and well-being of the nation and further the development of human resources.

2.0 INTRODUCTION

- 2.1 According to the National Council of Scientific Research Development (MPKSN), research and development comprises creative work undertaken on a systematic basis in order to increase the stock of knowledge, and the use of this stock of knowledge to devise new applications.

Research and Development covers any activity characterised by ORIGINALITY; it should have investigate

as its primary objective, the outcome of which is new knowledge, with or without a specific application, or new or improved materials, products, devices, processes or services that are consistent with the national and international expectation.

Research and Development includes pure and basic research, applied research and development research in the natural and applied sciences, social sciences and the humanities in line with the nation's aspirations.

- 2.2 There is a significant benefit to be gained through the nurturing of a critical mass of researchers in particular research areas. This is in line with the University's direction in achieving its goal to be a "Discovery University". This policy will enable UTM to face the challenges in creating smart partnerships with technologically advanced industries through the University-Industry Technology Advancement Programme (UNITAP).
- 2.3 This policy reinforces the development of an integrated research management and strategies that draws upon the existing research strengths and co-operation across faculties, focus groups and centres of excellence.
- 2.4 This R&D Policy of UTM shall be implemented in line with the objectives and strategies set herewith.

3.0 OBJECTIVES

This policy aims to :

- develop an industrial ethos which generates activities that engender scholarly work.

- established an integrated and co-ordinated approach towards research and development.
- provide a research management structure which will support and facilitate research activities.
- manage the development of focused research centres and research groups by identifying the building upon UTM's existing and emerging research strengths.
- foster collaborative research with other research bodies / industry.
- established UTM to be a referral centre for research in science and technology.
- expand UTM's postgraduate research programme through the growth and provision of more scholarships, effective research supervision and better infrastructural support.

4.0 STRATEGIES

The success of R&D implementation in today's rapid technological development demands strategic innovation creativity. The strategies are thus divided into four categories : management of research; provision and development of manpower; sourcing and utilisation of research fund, and development of infrastructure.

4.1 MANAGEMENT OF RESEARCH

- The University shall provide all necessary support in order to develop research management capabilities to other reputable international universities. Thus :

- The Deputy Vice Chancellor responsible for research and graduate studies shall plan and develop R&D activities.
- All centres of excellence, School of Graduate Studies, Research Management Centre (RMC) and research focus groups shall be placed under the jurisdiction of the Deputy Vice Chancellor concerned.
- RMC shall be responsible for coordinating research activities while the School of Graduate Studies shall administer, monitor, and facilitate the postgraduate study programme.
- RMC shall facilitate and promote the development of multidisciplinary and integrated research.
- The operation of focus groups shall be integrated into the management of RMC.
- The Bureau of Innovation and Consultancy (BIP) shall assist researchers towards commercialising their findings and help enhance linkages with the industry.
- Centres of excellence shall be responsible for undertaking research activities in specialised areas, while focus groups shall be responsible for encouraging and facilitating research activities in their respective fields.
- The Industrial Liaison Officers (ILO) shall coordinate with industries that have research linkages with UTM.

4.2 PROVISION AND DEVELOPMENT OF MANPOWER

The University shall encourage and strengthen the research manpower that will contribute towards the development of a research culture and the success of research in the University. Thus:

- The University shall create positions with attractive schemes of service and career path for researchers.
- The University shall appoint professors and experts assigned to RMC on contract or short-term basis to assist and stimulate research activities.
- The School of Graduate Studies shall actively recruit and attract post-graduate students in the areas of on-going research.
- The University shall set up incentive schemes to reward staff in recognition of their progress and achievements in research.
- The University shall make periodic reviews to assess teaching, supervision, research and consulting workloads of key research personnel.
- The faculties shall manage and develop manpower in areas of core competencies in order to support the focus groups.

4.3 SOURCING AND UTILISATION OF RESEARCH FUND

The University shall secure sufficient funds to carry out research activities and develop an effective and efficient

financial management system. The following steps outline the strategies:

- Internal funding to support research activities shall be allocated on merits. The selection process shall follow a set of clearly expressed criteria arrived at in consultation with the academic community.
- The University may allocate initial start up grants of a maximum of RM 200,000 per application for new research. Focus groups, however, should actively seek alternative funding for research. They should also market their expertise.
- The procurement process shall facilitate the acquisition of equipment, facilities and services.
- The RMC and the focus groups shall assist faculties in planning and determining facilities required for developing research.

4.4 DEVELOPMENT OF INFRASTRUCTURE

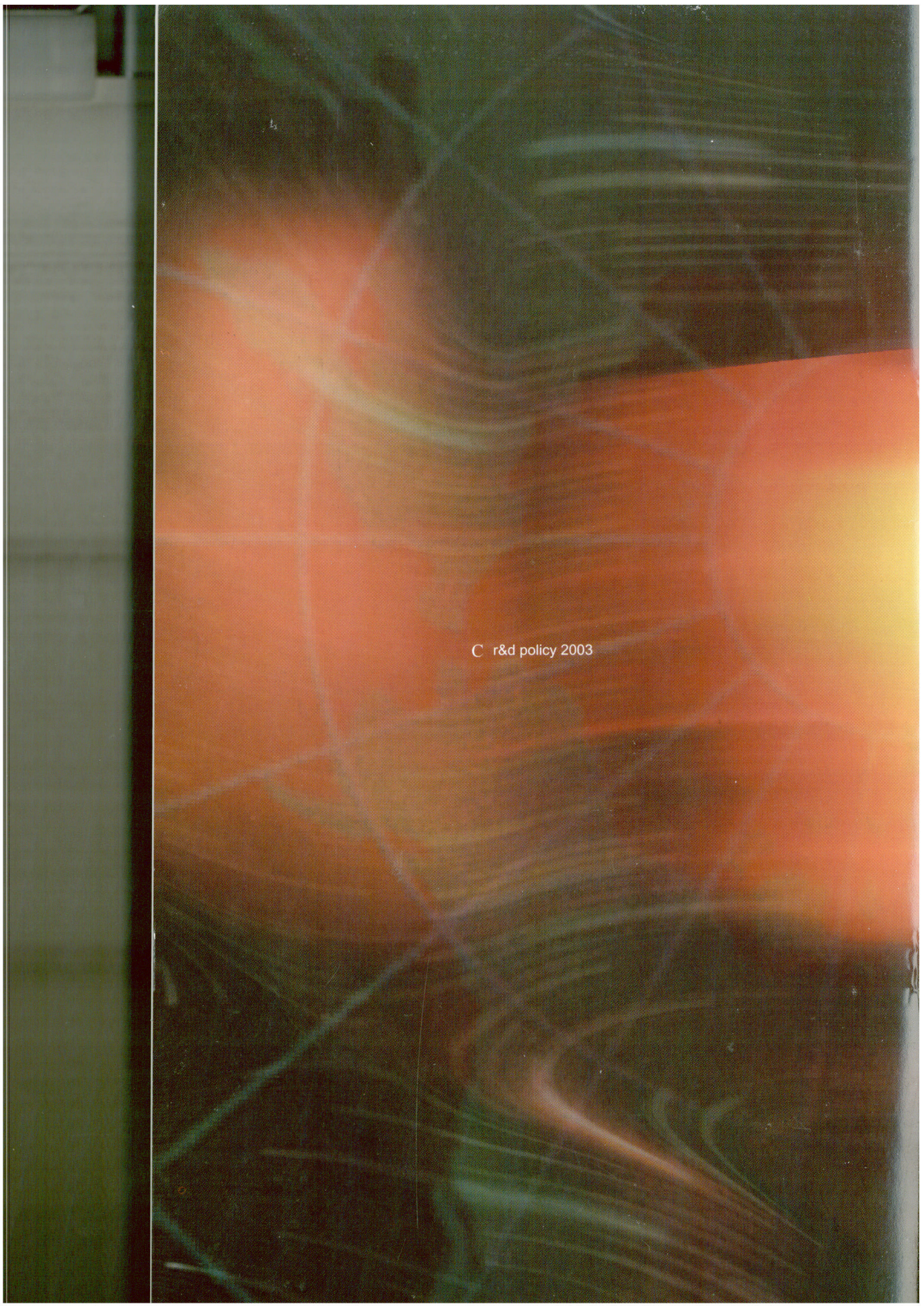
The University shall develop good infrastructural support in order to competently carry out research activities. The following would assist in the development of good infrastructure :

- The quality of research infrastructural support such as laboratories, library collections, research support staff, research equipment and access to facilities within UTM shall be at a level that would promote research befitting the role of UTM as a "Discovery University".

- The University shall provide a conducive environment for research through the provision of various facilities such as independent rooms, on-line computers, secretarial facilities, communicational equipment to post-graduate students and researchers.
- The Secretariat for the University Industry Technology Advancement Programme (UNITAP) and BIP shall provide the support to market the research products, faculties' expertise and specialised facilities through various media including the Internet.
- The University shall provide a guest reception centre equipped with facilities such as presentation rooms, meeting rooms and cooperate rooms.
- In order to spur the commercialisation activities and industry linkages, there is a need for UTM to accelerate the development of the Technovation Park as a main receptacle of commercial development of R&D.

Research and Development Policy has been approved by the
University Senate on 9th. August 2000 And Subsequently by
University Board of Directors on 5th. October 2000

CONTROLLED DOCUMENT



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