Accreditation is the evaluation and monitoring peer review process assuring that educational programs and institutions meet academic standards and operational integrity and quality. The number of programs in the field of Biomedical and Health Informatics is rapidly increasing. In this paper we briefly introduce the accreditation procedure that has been established by Accreditation Committee (AC2) of European Federation of Medical Informatics according to international standards.

Keywords. Biomedical and Health Informatics, accreditation, education

1. Introduction

Accreditation is a diligent evaluation and monitoring peer review process assuring that educational programs and institutions meet academic standards and operational integrity and quality [1]. There is a great number of European Universities and Institutions implementing and having established programs (undergraduate and postgraduate) in the field of Biomedical and Health Informatics [2]. A mechanism already applied by EFMI to accredit those programs, since EFMI is the European scientific body of Biomedical and Health Informatics, where all national associations have joined in EFMI. This accreditation provides European added value to the programs, be supportive of cross-national mobility and be complimentary to the required national accreditations processes [3]. The number of programs in the field of Health Informatics increased in Europe. On the other hand, a small number of Universities/Institutions with an accredited program in the field of Health Informatics reveals that accreditation activities have low effect in Europe.

EFMI is represented by the AC2 Committee which establishes an Accreditation and Certification process across. The aim of EFMI AC2 initiative is the promotion and provision awareness of the educational initiative to the wider biomedical and health informatics community in Europe.
2. Methods

The EFMI AC2 Accreditation assessment do not intend to replace or overcome any National or International accreditation or law. The accreditation process is robust and smooth succession of well-established steps and has already applied throughout Europe. The aim of EFMI AC2 Accreditation is to act as a complimentary judgement assisting and supporting to reach high quality academical educational programs in the field of Biomedical and Health Informatics.

The assessment procedure for successful accreditation examines five criteria. The criteria are based on the Dublin descriptors. Dublin Descriptors are uniform requirements for higher education under the Bologna Process acting as a system of qualifications frameworks for evaluating students for bachelor's, master's, doctoral degrees [4].

The EFMI AC2 Accreditation criteria are the following:

1. Needs and relevance
2. Intended learning outcomes
3. Academic/Teaching-learning environment
4. Organization and implementation
5. Internal quality assurance and development

The results of the assessment for each criterion are either satisfactory or unsatisfactory. In case that all five (5) criteria are satisfactory, according to the site-visit panel, the result of accreditation will be positive for the Universities/Institutions. The final decision of EFMI AC2 Committee is based on the evaluation report of site-visit panel. The positive decision of EFMI AC2 Committee gives the grant of EFMI Accreditation to the programme for three years. A re-accreditation process is required at the end of this period [5]-[8].

In case that only one (1) out of five (5) criteria measured as unsatisfactory then the programme receives a partial EFMI Accreditation for one year, until the program will reach this criterion. The application for accreditation will be dropped if more than two (2) criteria are judged as unsatisfactory. At least one year period of time is needed after a dropped application for a new judgement iteration.

3. Results

The AC2 by EFMI had successfully examined a wide variety of specializations including Biomedical Informatics, Health Informatics, Medical Informatics, Medical Technology, Bioinformatics, Biomedical Engineering, at undergraduate / postgraduate / doctoral / postdoctoral Studies. The information provided by an on-line catalogue[^2^], providing information about European programmes and courses of different Universities/Colleges/Institutions with 1000 BMHI programs and related specializations.

[^2^]: [http://efmi-ac2.bmhi-edu.org/](http://efmi-ac2.bmhi-edu.org/)
4. Conclusion

The first results by the EFMI AC2 procedure has already been initiated, and a number of programs have already been accredited. The first accreditation of Austrian UMIT received an award during MIE2021 in Athens. An accreditation process in BMHI needs to be based on updated educational recommendations by international organisations [9]-[12] in the field that will encompass all health care professions needs and requirements in clinical, nursing, and public health institutions, universities and health organisations.

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