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### Higher Education Curriculum Design Graduate Program that Refer to National Qualifications Framework for Indonesia (KKNI) and National Standard of Higher Education (SNPT) to Be Applied in the Universitas Sumatera Utara

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**Abstract:** North Sumatera University (Universitas Sumatera Utara) is a university that has a vision of higher education based on autonomy. The university is working to creation of an academic atmosphere that has a certain characteristic, to keep the applicable provisions of national scope such as the preparation of Curriculum Studies Program should refer to the National Qualifications Framework Indonesia (KKNI) as the Presidential Decree No. 8 of 2012 and the national standard of Higher Education (SNPT) which is set at 44 years PERMENRISTEKDIKTI no 2015. Related statements about the quality of Human Resources, where the benchmark qualifications set by the achievements of learning (learning outcomes), Description of learning outcomes in KKNI contain four elements, namely attitude, general skills, specific skills and mastery of knowledge. The first year of a planned three years is aimed at mapping the curriculum as well as the preliminary draft model of Higher Education Curriculum (KPT) degree program Faculty of Nursing, Pharmacy and the Faculty of Social and Political Sciences which refers KKNI and SNPT to be applied at USU. The initial design curriculum models have been conducted for four months from April to July 2016 through a process of identifying the data on faculty, interviews and discussions aimed to explore the findings in the identification of research data. The results of the research were obtained, namely At the Faculty of Nursing curriculum on the run at the moment is the Competency Based Curriculum (CBC) with the approach of block where the formulation of the competencies that run sourced from the Association Study programs and local content as pencirikhasan faculty of nursing USU with learning methods Lectures, tutorials, lab, skills lab and kepanitraan Clinic, at the Faculty of Pharmacy curriculum implemented at the moment is the curriculum approach to subjects/conventional where organizing lecture by half of which consists of 14-16 sessions/semesters with emphasis on laboratory practice in addition to learning strategies lectures and Faculty ISIP has six courses, namely anthropology, science of state administration, science Administration commerce/business, science social Welfare,

communication Studies and Political Science, in the preparation of the curriculum has not been fully received input from the association this is because not all associations to formulate competencies of graduates so that the competence of graduates formulated at this time based on the discussions and agreements between the graduates, alumni and faculty at the course.

**Keywords:** Competency Based Curriculum, Higher Education Curriculum, Undergraduate, National Qualifications Framework Indonesia, the national standard of Higher Education

## 1. INTRODUCTION

The curriculum should be implemented in college at the moment is the Curriculum of Higher Education (KPT), which refers to the Presidential Decree No. 8 of 2012 on the National Qualifications Framework Indonesia (KKNI) which encourages all universities to match the achievements of learning (learning outcomes) each graduates so have the same quality with the agreed qualification KKNI and refers to the publication of educational and cultural ministerial regulation No. 49 of 2014 on National Standards of Higher education.

Currently USU has 15 faculties with 156 courses (level D-3, D-4, S-1, S-2 and S-3). In 2003 USU change the status of State Universities (PTN) into Higher Education State Owned Legal Entity (PT BHMN), which is PT BHMN fifth in Indonesia. In 2014 the status of USU turned into a Legal Entity State Universities (PTN-bh) in accordance with Regulation No. 16 of 2014 on the Statute USU set on February 28, 2014. (T.Silvana Sinar, 2014, p. X). USU curriculum development activities in higher education has been going on since January of 2015. This activity involves the development of educational services unit and that has a fundamental duty as an institution that became the center of education in the learning process is independent. Nevertheless the curriculum development still requires improvement due to several things. First, the time period is very short for curriculum development. Second, the preparation of the curriculum has not completely departed from the evaluation process and thorough curriculum mapping. Third, the resulting curriculum has not been evaluated because it is still a new curriculum.

Facing global environmental changes are so fast and the challenge is so great as competitiveness is so high because of the influx of University graduates abroad, and if USU no improvement and curriculum development in accordance with the development of internal and external environment, certainly the quality of learning decreased USU significantly resulting highly behind other universities, both national, regional and international levels. USU should be able to anticipate these changes by evaluating the curriculum and to prepare a draft curriculum to be implemented in KKNI and SNPT tailored to the needs of the global market and a competitive advantage possessed USU and North Sumatra province without peculiarities of the nation's cultural character.

## 2. MATERIALS AND METHODS

The type of this study is explanatory survey which describes the relationship of a phenomenon. This study data is a primary data which is based on a direct assessment through a survey mechanism in the field (Lubis et al., 2016; Muda *et al.*, 2017 & Erlina *et al.*, 2017) . Then, in accordance with a predetermined time the questionnaire to be brought back. All questionnaires were distributed can be collected back and can be used as data in this study (Dalimunthe *et al.*, 2016). This research activity is planned for 3 years. Research in this first year has been held for 4 months. This study will map out a curriculum, create a curriculum design to produce guidebooks higher education curriculum that refers to KKNI and SNPT to be applied at USU.

The unit of analysis in this research is the faculties at the University of North Sumatra consists of the Nursing Faculty of Pharmacy, Faculty of ISIP, in addition, the unit of analysis of this study was also conducted on existing courses at the faculty. Thus the data source in the leadership will come from faculty, lecturers and students. The data source will be interviewed by an open interview technique guided by an interview guide. The contents of the interview guide is about the conceptualization and SNPT KKNI based curriculum. Subsequently conducted focus group discussions (FGD).

Questionnaires were distributed to see the distribution of curriculum applied at USU. Data were analyzed with descriptive analysis. Results of analysis of the data is then interpreted to see how your distribution of the curriculum at the University of North Sumatra, especially in the Faculty of Nursing, Pharmacy and ISIP. Research methods are based on annual research plan. The matrix in Table 2 outlines the steps the research process will be done in year one (2016). In all of these will be used method of participatory observation, interviews, document studies and expert discussions (see Table 1).

**Table 1**  
**The Steps The Research Process**

<i>Activity</i>	<i>Information</i>	<i>Secondary Data</i>	<i>Data Gatherer</i>	<i>Result</i>
Initial identification of the Faculty of Pharmacy, and Nursing ISIP	-Faculty and department leaders	- Document profile institution (faculty and department)	- Observation - Participation - Deep interview - Studi document	A general description of the curriculum at USU
The collection of data and document attitudes, competencies at the Faculty of Pharmacy, Nursing and ISIP	Leaders of the Faculty of Pharmacy, and Nursing ISIP	Matrix compatibility between subjects and the attitude and profile	- Observasi participation - Diskusi Focus Group - Interview -Studi document	Map Profile, attitudes and competencies are applied in USU
Mapping the curriculum at the Faculty of Pharmacy, Nursing and ISIP	Faculty of Pharmacy, and Nursing ISIP	Faculty and department curriculum documents	- Interview - Focus Grup - Expert Discussion	Map curriculum applied at USU

In each faculty will do the data collection process using the methods described previously.

### **3. RESULTS AND DISCUSSION**

The first year it has been held for four months from April to July 2016 through the study process documents, observation, interviews and discussions aimed to explore the findings in the identification of research data. The research results obtained are:

#### **1. Faculty of Nursing (School of Nursing)**

The curriculum is on the run at the moment is the Competency Based Curriculum (CBC) with the learning approach using a block system with learning strategies Student Center Learning (SCL) such as lectures,

tutorials, lab, laboratory skills. The learning process using clusters - groups of 10-16 students. A set curriculum at the Faculty of Education Nurses Association sourced from Indonesia and KemenristekDikti. The curriculum structure and composition of courses offered clear.

## **2. Faculty of Pharmacy (Department Bachelor of Pharmacy)**

At the Faculty of Pharmacy curriculum implemented at this time is to approach curriculum subjects/ conventional lecture where implementation is based on the semester that consists of 14-16 sessions/ semesters with emphasis on laboratory practice learning strategies besides lectures and discussions. These courses are also in the stage of evaluating and compiling KPT which refers to KKNi and SNPT as for the development phase of this study program has been formulated graduate profile, learning outcomes, learning outcomes linked to the subjects, methods/strategies for learning and assessment Aspects (Curriculum attached).

## **3. Faculty of Social and Political Sciences**

Faculty ISIP has a vision “to be a center of education and reference fields - social sciences and politics in the western region” faculty has 6 programs of undergraduate study that anthropology Social science state administration, science Administration commerce/ business, science social welfare, sociology, science communication and Political Science. Overall this study program at the Faculty of implementing the curriculum approach to subjects/ conventional where organizing lecture by half of which consists of 14-16 sessions / semester learning strategies lectures, discussions and other learning methods. These courses are also in the stage of evaluating and KPT which refers to prepare KKNi and SNPT prepare as for the development phase of Department. Department is already formulating a profile of graduates, learning achievements, learning achievement linked to the subjects, methods/strategies for learning and assessment aspects. Below will be described one by one curriculum for each Department.

### **(a) Department Social Anthropology**

Department has a vision to encourage Social Anthropology department's role as a center of excellence for the development of human civilization Indonesia which value diversity groups - community groups and recognition of the excellence of resources and values to more community. Department is already formulating the graduate profile, description of competencies, course support, a brief description of the course while the method / strategy of the course has not been specified. The scoring system in evaluating the success of student learning assessment system implemented with the approach of Benchmark Reference Rate (PAP) or the Reference Rate Norma (PAN) The value determined from the test subjects tegah the semester exam results, value tasks or other structured activities with a ratio of weight set by the course coordinator.

### **(b) Department Public Administration**

Department has a vision “to be a superior study program in the acquisition, development and application of the science of public administration and capable of producing qualified scholars state administration”. The curriculum is running at the moment (Rector Decree No. Un5.1R/SK/Krk/2014) is the only curriculum that outlines the course code, course name and semester credits weight while formulation of graduate profiles, learning outcomes, strategies/methods of learning and aspects assessment has not been formulated

in the curriculum. The scoring system in evaluating the success of student learning assessment system implemented with the approach of Benchmark Reference Rate (PAP) or the Reference Rate Norma (PAN) The value determined from the test subjects mid term semester exam results, exam value tasks or other structured activities with a ratio of weight set by the course coordinator.

***(c) Department Sciences business administration/business***

Department has a vision “to be excellent courses in the control, development and application of the science of business administration/business on the island of Sumatra. The curriculum is running at the moment is the curriculum that legalized in 2013 the curriculum is only outlines the course code, the name of the course and weighting of credits as a whole has not been distributed each semester while formulating the graduate profile, achievement of learning, strategies/methods of learning and evaluation aspects not yet formulated in the curriculum. The scoring system in evaluating the success of student learning assessment system implemented with the approach of Benchmark Reference Rate (PAP) or the Reference Rate Norma (PAN) The value determined from the test subjects the semester exam results, tasks or other structured activities with a ratio of weight set by the course coordinator.

***(d) Department Social Welfare Studies***

Department has a vision “to be the institution that produces science undergraduate social welfare who master the theory - the theory of the science of social welfare and skillful use of the method of empowerment so as to perform professionally in solving problems social problems in general and the problem of social welfare specifically and individually empowering people, organizations/groups and communities collectively as well as participating in the development of social welfare in accordance with the demands of the times: The curriculum at the current time this is simply outlining curriculum course code, course name and credits of the overall weight, which were distributed each semester while the formulation of graduate profiles, learning outcomes, strategies/ methods of learning and assessment aspects have not been formulated in the curriculum. The scoring system in evaluating the success of student learning assessment system implemented with the approach of Benchmark Reference Rate (PAP) or the Reference Rate Norma (PAN) The value determined from the test subjects the semester exam results, exam and value tasks or other structured activities with a ratio of weight set by the course coordinator.

***(e) Department Communication Studies***

Department has a vision “Generate scholar - Tahir educated, skilled da professionals in the field of science communication”. The curriculum is running at the moment is based on Rector Decree No. 1079/UN5.1.R/SK/CRA/2014 only outlines the course code, course name and credits of the overall weight, which were distributed each semester while the formulation of graduate profiles, learning outcomes, strategies/learning methods and assessment aspects have not been formulated in the curriculum. The scoring system in evaluating the success of student learning assessment system implemented with the approach of Benchmark Reference Rate (PAP) or the Reference Rate Norma (PAN) The value determined from the test subjects tegah the semester exam results, exam semesterdan value tasks or other structured activities with a ratio of weight set by the course coordinator.

***(f) Department Sociology***

Department has a vision “as a center of education in the field of social research, community empowerment in social development”. The curriculum is running at this point outlines the abilities controlled by graduates, course code, the name of the course, a brief description of the course, groups of subjects and the weight of credits in total have distributed each semester, strategies/methods of learning and assessment aspects have been formulated but not yet gems lecture formulated in the curriculum. whereas the formulation of graduate profiles, learning outcomes, assessment system in the evaluation of the success of student learning assessment system implemented with the approach of Benchmark Reference Rate (PAP) or the Reference Rate Norma (PAN) The value determined from the test subjects tegah the semester exam results, exam semester dan value duties or other structured activities with a weight ratio set by the course coordinator.

***(g) Department Politics***

Department has a vision “as a center of education in the field of political research that contribute to the development of quality of life”. The curriculum at the current time this has been approved by USU Rector Decree No. 1086/UN5.1.R/SK/CRA/2014 which describes the curriculum course code, course name, group courses and credits that the overall weight has been distributed each semester, strategies/methods of learning and assessment aspects have been formulated but not yet formulated a lecture jewel in curriculum formulation tersebut sedangkan graduate profile, learning outcomes, assessment system in the evaluation of student learning success has not been specified. In the preparation of the curriculum has not been fully received input from the association this is because not all associations to formulate competencies of graduates so that the competence of graduates formulated at this time based on the discussions and agreements between the graduates, alumni and faculty at the course. The study program is in its function to approach subjects/conventional lecture where implementation is based on the semester consisting of 14-16 times involve external agencies that could potentially be a development of science and scattered in different places. The advice is expected that all of the faculty can arrange Higher Education Curriculum refers KKNI and SNPT.

#### **4. CONCLUSION**

In the second year of research will bear design-based curriculum model KKNI and SNPT to be applied at the University of North Sumatra. The draft curriculum model is expected to be found through the process of curriculum implementation simulation conducted in the Faculty of Nursing, Faculty of Social and Political Sciences and Faculty of Pharmacy. In addition, this study will use focus groups to test the model design of the model curriculum in college. It also uses the method expert discussion. If it is necessary to do in-depth interview process to strengthen the research findings. The research findings in the form of a draft model of curriculum refers to the Indonesian National Qualifications Framework to be implemented at the University of North Sumatra.

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