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ФИЗИЧЕСКОЙ КУЛЬТУРЫ И СПОРТА»

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ФИЗИЧЕСКОЙ КУЛЬТУРЫ И СПОРТА

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## THE SITUATION AND MEASURES TO IMPROVE THE EFFICIENCY OF SCIENTIFIC RESEARCH ACTIVITIES OF TEACHERS AT HANOI UNIVERSITY MINING AND GEOLOGY

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**Abstract.** Scientific research is of special importance in higher education because it not only contributes to improving the quality of training but also creates new knowledge and new products for the development of mankind. With such importance, the Resolution of the 2nd Conference, the Eighth Central Committee of the Communist Party of Vietnam stated: «Universities must be centers of scientific research, technology, and transferring and applying technology to production and life». Directive 296/CT-TTg dated February 27, 2010 of the Prime Minister on innovation in higher education management for the period 2010–2020 also clearly states «Improving management capacity and effectiveness of scientific research work» study at universities, actively contributing to improving the quality of training and serving socio-economic development». This article aims to evaluate the current status of scientific research activities of lecturers at Hanoi University of Mining and Geology, and based on the analysis of the current situation, propose measures to remove and promote this activity effectively.

**Keywords:** *scientific research, lecturers, managers.*

## СОСТОЯНИЕ НАУЧНО-ИССЛЕДОВАТЕЛЬСКОЙ ДЕЯТЕЛЬНОСТИ ПЕДАГОГОВ И МЕРЫ ПО ПОВЫШЕНИЮ ЕЁ ЭФФЕКТИВНОСТИ В ХАНОЙСКОМ ГОРНО-ГЕОЛОГИЧЕСКОМ УНИВЕРСИТЕТЕ

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**Аннотация.** Научные исследования имеют особое значение в высшей школе, поскольку они не только способствуют повышению качества подготовки, но и создают новые знания и новые продукты для развития человечества. При такой важности в Постановлении 2-й конференции Восьмого созыва ЦК Коммунистической партии Вьетнама говорилось: «Университеты должны быть центрами научных исследований, технологий, а также передачи и применения технологий в производстве и жизни». В Директиве Премьер-министра 296/СТ-ТТг от 27 февраля 2010 г. об инновациях в управлении высшим образованием на период 2010–2020 гг. также четко прописано: «Повышение управленческого потенциала и эффективности научно-исследовательской работы обучения в вузах, активно способствующего совершенствованию качества обучения и обслуживания социально-экономического развития». В данной статье ставится задача оценить современное состояние научно-исследовательской деятельности преподавателей Ханойского горно-геологического

университета и на основе анализа сложившейся ситуации предложить меры по устранению и эффективному развитию этой деятельности.

**Ключевые слова:** *научные исследования, преподаватели, менеджеры.*

### **Make a problem**

Practice in universities and colleges, scientific research activities are the most effective way to improve professional qualifications and develop pedagogical capacity of each teaching person and education. Scientific research is one of the two main criteria to evaluate the quality of the school in improving and ensuring the quality of the training process. The relationship between training and scientific research is an organic, intimate relationship that has a reciprocal effect and promotes mutual development.

Over the years, scientific research activities of the University of Mining and Geology have achieved some remarkable achievements. Scientific research activities have contributed to fostering the staff, improving the quality of undergraduate and postgraduate training through the close combination of scientific research with teaching and scientific research activities of students, graduate students and researchers; serving the local socio-economic development through research, implementation and technology transfer activities.

Many reasons have been given to explain this situation such as: lack of modern equipment, lack of output for research results, asynchronous instruction manual, the legal documents governing scientific research activities of universities and colleges have not been fully and timely promulgated... All of that limits scientific research activities in general and scientific research activities of lecturers of the University of Mining and Geology in particular.

This article aims to study and understand the current status of scientific research activities of lecturers at University of Mining and Geology, thereby proposing measures to improve the effectiveness of scientific and technological activities of lecturers in particular and of scientific research activities at the University of Mining and Geology in general, contributing to accelerating the transformation of a strong scientific research university in the new period.

Current status of scientific research activities of lecturers at University of Mining and Geology. Research results through survey methods show that the current status of scientific research activities of lecturers at University of Mining and Geology has the following characteristics: Perceptions of lecturers about scientific research activities. The quality of scientific research activities and the attitude of lecturers to participate depends a lot on the awareness of scientific research activities of lecturers and managers.

Table 1 – Perception of teachers, management staff of the University of Mining-Geology about scientific research activities

Awareness of activities	Teacher (n = 208)		Management staff (n = 67)	
	SL	%	SL	%
Very important	155	74.5	44	65.7
Important	51	24.5	23	34.3
Less important	2	1.0		
Not important	0	0	0	0
total	208	100	67	100

The survey results in Table 1 show that, only 1 % rated this activity as being of little importance, while the majority of teachers and administrators are aware that scientific research activities play an important and very important role, especially , the number of people who agree that the role of scientific research in universities is very important accounts for a very large proportion compared to the opinion that it is important: 3 times more for teachers (74.5 % compared to 24.5 %) and nearly 2 times (65.7 % versus 34.3 %) in management staff.

Motivation and purpose of participating in the study. The results of the survey on the motivation of lecturers to participate in scientific research in Table 2 show that, while the opinions of lecturers about the motivation to participate in scientific research are clearly divided with the highest rate of 194 opinions equivalent to 93.3 % for improving professional qualifications, research capacity and at least serving emulation and title evaluation (63 opinions, accounting for 30.3 %), the opinion of management staff on motivation is equivalent to 93.3 %. chances of participating in scientific research have almost the same rate, the difference is not significant.

Table 2 – Motivation for participating in scientific research of teachers of the University of Mining and Geology

Motivation to participate in scientific research	Teacher (n = 208)		Management staff (n = 67)	
	SL	%	SL	%
1	2	3	4	5
Mandatory quest	121	58.2	40	59.7

1	2	3	4	5
Increase salary	99	47.6	37	55.2
Passion	152	73.1	36	53.7
Demonstrating NC, ability	140	67.3	28	41.8
Realization of NC, ideas	143	68.8	40	59.7
Serving teaching work	175	84.1	49	73.1
Enhancing professional qualifications and NC, capacity	194	93.3	42	62.7
Improve reputation	87	41.8	27	40.3
Serving emulation and title review	63	30.3	40	59.7

For teachers, in addition to improving their professional qualifications and research capacity, the group of motives with a large percentage (over 65 %) selected includes passion, demonstrating research capacity, implementing research ideas. research and teaching service. Thus, for them, the main motivation for scientific research is pure science, knowledge, serving passion, science and profession. The other factors are just secondary.

In the eyes of the manager, there is a well-balanced, almost evenly distributed choice of engines. While the rate of selection of the scientific research engine for emulation and title consideration for teachers is small, the management staff considers this engine quite important (59.7 % selected). Thus, from an objective point of view, this is consistent with the current situation . A number of applications you 've put into target Releases Research to review the implementation racing. In particular, in the criteria for the recognition of professor and associate professor titles, scientific research works are a very important component, the total score of works from articles, books, textbooks... accounts for the proportion big.

As with research motivation, teachers carry out scientific research to improve their professional qualifications and research capacity with the majority of opinions (92,3 %). The next largest group is applying theory to teaching practice (88.5%), improving and expanding understanding (81.7 %), discovering new knowledge in expertise (79.8 %) and forming scientific working habits (74 %).

Advantages and disadvantages for the implementation of scientific research activities of lecturers.

In the survey, we list out 11 advantages/disadvantages that teachers often encounter when carrying out scientific research activities. Through the survey results, we found that, in 3 factors that teachers rated as favorable, including their own will (87.5 %), experience, research skills (69.2 %) and professional staff. Department of expertise coordinating research (68.3 %), the first 2 factors belong to subjective factors.

Thus, with the benefits that scientific research activities bring, teachers themselves wish to be implemented. In addition, with a large team of qualified lecturers, research experience and skills and the finding and selection of collaborators are not the problem that hinders teachers from carrying out research activities. Compared with the advantages, the proportion of factors assessed by teachers as difficult is higher, mainly objective factors.

Up to 7 factors are considered to be difficult, accounting for more than 50 % (funds, research incentive mechanisms, equipment for research, research environment, professional documents, registration and recruitment processes, etc.) selected, time spent on research), of which the highest is funding with 90.9 % and equipment for research with 82.2 %.

In recent years, although funding for science and technology has improved significantly, it is still very small compared to research needs, research equipment is still lacking, not meeting the requirements, making the implementation of activities Scientific research of teachers has difficulties. Moreover, there has not been a policy that really encourages and motivates teachers to research, while the financial payment procedure is still formal, inadequate and difficult to implement.

Legally, Circular 44/2007/TTLT-BTC-BKHCN dated May 7, 2007 guiding the norms for construction and allocating budget estimates for scientific and technological topics and projects. use of the state budget and Circular 93/2006/TTLT/BTC-BKHCN on guiding the regime of budgeting for science and technology topics and projects funded with the state budget. the contract for scientific research activities of lecturers. However, in reality, this contract is not regulated thoroughly, the implementation is still complicated, so most lecturers face many difficulties in the financial settlement of the topic.

Difficulties with subjective factors to be taken into account is the time spent on research. Scientific research is a very difficult task, consuming a lot of effort and time, depending on many factors, going through a long implementation process and going through many stages of selection, testing, evaluation and acceptance. Meanwhile, the cost received compared to the effort is not really commensurate. Therefore, many teachers mainly spend their time on teaching. The main source of income of university lecturers today comes from teaching, and the time spent on research is still limited.

**Factors affecting scientific research activities**

To investigate the factors affecting scientific research activities of Hue University teachers, we have given some subjective factors and some objective factors for lecturers to choose according to the degree of influence from low to high. (from no influence to very influential). When processing the data, we quantified the scores for the levels (No influence: 1 point, Little influence: 2 points, Normal: 3 points, Influence: 4 points, Very influential: 5 points. scores) and take the average of those levels. The results are shown in Table 3 with two subjects: teachers and administrators.

**Table 3 – Factors affecting scientific research activities of lecturers at University of Mining and Geology**

Element	The average value	
	Lecturers	CB QL
Mechanisms and policies to encourage researchers	4,51	4,21
Local socio-economic, scientific and technological environment	3,88	3,97
Resources to serve scientific research (budget, facilities, etc.)	4,49	4,51
Sex characteristics	2,20	2,30
The management and administration of R&D activities	3,98	3,63
Materials and equipment for research	4,39	4,27
Scientific research consciousness	4,28	4,27
Consciousness and attitude to scientific research	4,40	4,46
Professional qualifications and competencies	4,74	4,63
Research experience and skills	4,63	4,49
Computer skills, foreign languages	3,79	3,54
Teaching workload	3,73	4,24
Other reasons (busy earning a living, age, work position)	3,48	3,93

The factors affecting the quality and effectiveness of scientific research activities can be objective factors such as mechanisms, policies, socio-economic environment, local science and technology, resources for scientific research (budget), CSVC), gender characteristics, management



and administration of scientific research activities, documents and equipment for scientific research and also subjective factors such as motivation to participate in scientific research, awareness, attitude towards scientific research, qualifications, professional capacity, experience, scientific research skills, computer literacy, foreign languages, teaching workload and other reasons.

Table 3 to see, for the two to subject teachers and staff the management of, the essential elements picture entitled to operate in scientific research is quite similar contracts, in which the two main factors most influence the operation of Scientific Research of the faculty of the weak factors subjectivity which is qualification, competence specialized technical and business experience, technical ability in scientific research (cost of secondary average was 4.74 and 4.63 for the GV and 4.63 and 4.49 for Management Training College). One major factor other subjective choices are many that is the official, state level for the Scientific Research (prices of secondary average is 4.4 for teachers and 4.46 for Management Training College). What it demonstrates, want scientific research well, it must have a level of strong expertise, mean informal self-learning, self-training to raise the level of professional services, access to intellectual knowledge new methods Justice, the modern facilities for service to scientific research, to have the formula NC a self -discipline, serious and central reality.

Apart from that, the main factor other objective also significantly affected the scientific research activities of teachers that the resources available for scientific research, facility policies encourage people working at. True that, functioning Dynamic Research not be carried operator «vegetarian» which must have source of charge just enough to buy chemicals, hire employees and the announced results. This funding to persons NC implementation of the idea of his science. Besides, it should have systems System CSVC, essential equipment, room pilot test for cases NC, the new make sure of the amount of work up scientific research.

#### Resources for scientific research activities

We have surveyed the resources for scientific research activities of the teachers of Hanoi Capital University with a choice of levels from low to high (from poor to good) and quantified into scores for levels (Poor: 1. score, Weak: 2 points, Pass: 3 points, Fair: 4 points, Good: 5 points) and take the average value of those levels.

However, apart from state-level projects and projects with over 1 billion dong each year, and ministerial-level projects of several hundred million dong a year, the budgetary tasks are very limited. regime. Every year, the University of Mining and Geology approves about 40–50 grassroots scientific research projects with about 20–60 million VND/topic. Such research funding is a bit low, just enough to encourage teachers to carry out small studies, which

cannot guarantee conditions for larger and larger-scale research, so it has not created the motivation to promote everyone, people who enthusiastically devote their intellect to scientific research activities.

3. Measures to improve the effectiveness of scientific research activities of lecturers at the University of Mining and Geology. Building a scientific research environment, encouraging and motivating lecturers to do scientific research.

This measure aims to build a medium field of scientific research with active multi-format, wide across the whole of science, the discipline of the units belong; use multiple measures approach to promotion incentives and shore up confidence Checkers anesthesia research at scientific study of teacher. An environmental study at creating conditions for them to play to contribute to business experience, technical ability and intellectual knowledge of yourself to the real present for Service Research, contributing part of raising high-quality training to create, play contributed to the development growth of the sector, the local.

To carry out this measure, it is necessary to perform the following tasks:

Raising the awareness of teachers and managers of scientific research activities of faculty members.

– Strengthen communication and dissemination of science and technology strategies, guidelines and policies of the Party and State on science and technology activities, and further deepen the understanding for management staff and teachers of the University. Mining - Geology Department decisions of the Ministry of Education and Training on scientific research activities as well as other regulations and regulations related to this activity so that the scientific research team of the university has an operational orientation and a sense of responsibility. responsibility in performing the tasks of scientific research in addition to the teaching duties of the teacher.

– Full information about the undertakings and policies of scientific research. Clearly define the position and role of scientific research activities for training objectives in universities; It is necessary to identify scientific research activities that have an important position and are directly related to the quality of education and training of the school. Therefore , teachers must have the task of scientific research and the results of scientific research must be considered as an evaluation criterion for the professional quality of teachers.

– Forming science and technology awards of different sizes to attract as well as create a dynamic scientific environment. There are mechanisms to encourage teachers to participate in scientific research information via the commendation award on material quality and refined spirit to respect honor the individuals with excellent achievements in scientific research activities, outstanding research results or publication of excellent scientific

articles... The reward mechanism needs to be clear, according to norms to create attractiveness for activities. This contributes to the teacher's interest and passion for scientific research. At the same time, creating a healthy competition to promote scientific research activities in the school.

- Encourage conferences, seminars, seminars, and professional activities at faculties and departments to organize exciting academic activities by dedicating a reasonable part of the annual scientific and technological budget to the organizing units. organize conferences and seminars.

- Promulgate regulations on mandatory requirements for the number of articles and annual number of scientific research topics for teaching staff with academic titles and degrees; All scientific staff and lecturers have the obligation to participate in scientific activities in various forms, at least 30 % of the working time norm for scientific research activities .

- Creating conditions for project leaders to publish research results, thereby contributing to arousing the scientific passion of teachers. Disseminate information about proposals and selection of topics/projects from many sources for participating officials to submit dossiers.

- Support the units with procedures to publish scientific information, improve the quality of the Scientific Journal of the University of Mining-Geology... so that teachers have more options in publishing their works.

- Issuing a document specifying the standard hours of teaching and scientific research of teachers, in which teachers must spend a reasonable time on scientific research activities such as chairing or participating in the implementation of programs, projects, topics. Science and technology talent.

Strengthening conditions for scientific research activities of lecturers.

This measure aims to strengthen the conditions, facilities, and funding in a timely, reasonable and appropriate manner in accordance with the actual situation in order to better serve the scientific research work of teachers. Mobilize different funding sources to gradually increase funding for scientific and technological activities, strengthen professional documents, invest in facilities, equipment, and laboratories step by step synchronously and modernly. research service.

To carry out this measure, it is necessary to perform the following tasks:

- \* *Reasonable use of funding sources from the career budget.*

- Diversify investment sources for science and technology and remove the average allocation form of funding for research on scientific topics, but divide them according to the content and specific research tasks of each topic.

- Attention should be paid to the budget approval stage. Because if this step is overlooked, the approved estimate is not necessarily consistent with the actual research requirements.

– Dedicated funding for the identified tasks, selection of organizations and individuals to lead and control the investigation, rated value specified period the results work up Science and Technology, rated value, experience obtained the results research and support the application of research results into practice to ensure the quality and effectiveness of science and technology activities. Recommends encouraging the application you support subsidies of fees deducted from active work digging create support support scientific research.

*\* Mobilizing funds for scientific research from multiple sources together*

– Presiding over the establishment of multidisciplinary research groups, gathering scientists with research ability to participate in the development of large-budget topics, international cooperation projects on scientific research.

– Directing units to concentrate their forces to develop projects to strengthen research capacity and submit them to the Ministry of Education and Training.

*\* Promote scientific research cooperation with local authorities, the provinces in the country and international cooperation International*

– Sign cooperation agreements with the Departments of Science and Technology of the provinces in the systematic implementation of scientific research in the locality.

– To jointly organize seminars, cooperate in exchanging information for research work of the university and the locality. Through cooperation, information on scientific and technological activities of localities, research results of topics/projects are exchanged regularly, thereby avoiding duplication in scientific research organizations.

– Strengthening scientific research activities between the University of Mining and Geology and foreign universities through projects, protocols, and bilateral cooperation.

– Encourage and create favorable conditions for units and individuals seeking to expand relations projects international cooperation International.

Strengthening publication and application of the results, the product  
of scientific research activities of faculty members

This measure aims to innovate in management, in ways of doing things, to create a favorable environment for the rapid application of research results in production and life so that science and technology can increasingly play the role of driving force social economic development.

To carry out this measure, it is necessary to perform the following tasks:

*\* Enhance publication, application of results, products*

– Periodically publish publications that publish works and research results and focus on subjects within the scope of application of the topic and program.

– Coordinate and support excellent projects to publish brochures and leaflets to promote project results.

– Publishing abstracts of published works (domestic and international articles) of individual scientists of the University of Mining and Geology.

– Planning to work with technology transfer centers of enterprises industry and localities on the results of research on highly applicable topics, it is necessary to proceed to build a center for applied research and key technology transfer.

*\* Promoting intellectual property activities*

– Raise awareness about intellectual property activities for managers and teachers of the units. Propagating and disseminating legal documents on intellectual property of Vietnam and international treaties on intellectual property to which Vietnam is a contracting party.

– Direct schools to plan annual intellectual property activities. Guide units, teachers to register and support funding for intellectual property rights protection and brand promotion.

– Coordinate with the National Office of Intellectual Property to implement the registration of intellectual property rights at the University of Mining and Geology.

– Develop measures to promote the commercialization of research results and technology transfer in order to increase revenue from these activities.

*\* Improving the quality of scientific journals*

– Formation of English-language journals and periodicals.

– Standardize the journal publishing and management process according to international standards and apply IT in these processes.

– Establishing editorial boards with the cooperation of famous scientists at home and abroad.

– Cooperate with reputable publishers in publishing each other's publications to expand the network of readers and increase access to scientists of the University of Mining and Geology.

– It is recommended to update and raise the score of the journal for each journal in the list of journals of the State and Industry Council for Professor Title .

### **Conclude**

On the basis of analysis and evaluation with the collected data, the article has clarified the current status of scientific research activities of teachers. Most teachers and administrators are properly aware of the role of faculty's scientific research activities in universities. The quality of scientific research activities has been increasingly improved and has brought remarkable results in improving the research and teaching capacity of the team, serving undergraduate and graduate training. However, the effectiveness of scientific research activities is not commensurate with the existing potential

of the University of Mining and Geology, the application of research results is still limited, and the organization and implementation of scientific research activities is still limited. many disadvantages.

The paper proposed the measures to fix for these problems and play promote the advantages to promote and play development of active work of the scientific research faculty member. In the scope of a post newspaper, they 're just set middle of measures law aimed at creating what conditions the environmental field and the defense measures of a technical nature in order to promote active scientific research. In the time comes, we 're going collective central distribution area and started manufacturing these measures legal governance reasons to end pushed over half the active work of Scientific Research at the Hanoi University of Mining and Geology value worth the potential energy and power capacity out there.

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