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Cultural Integration on Students' Productivity During Distance Learning

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Abstract

This study aims to measure the effectiveness of cultural integration on the productivity of Mathematics and Natural Sciences students during the implementation of distance learning. The culture integrated into this research is a habit that becomes a society's tradition in behaving. The research problem is about the integration of culture on character formation, which impacts student productivity. The study used mixed methods with quantitative data from questionnaires and qualitative data from interviews and document analysis. The research targets are Mathematics and Natural Science students from 6 majors, class of 2020, at Universitas Negeri Semarang. 344 students filled out the questionnaire. After the questionnaire data was analyzed, it was deepened through interviews. The relationship test between character strengthening and students' productivity obtained a correlation coefficient value of 0.59, indicating that the correlation between variables is quite strong. Internalization of cultural values into forming students' characters in distance lectures and activities is carried out through habituation. The selection of online application media refers to the ease of access, students' common use, and ease of operation. The research concludes that students' characters contribute to building students' self-awareness to be productive.

Keywords: culture; character; productivity; students

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1. INTRODUCTION

Social culture, such as habits, ethics, and norms, is integrated into forming students' soft skills (Winther-Lindqvist, 2020). Integrating culture through activities that sharpen students' soft skills has become an ongoing routine program for Mathematics and Natural Science students at Universitas Negeri Semarang. Activities are carried out through seminars, public lectures, training, workshops, focus group discussions, research, and community service. As activities are not enough to form strong students' characters, it is necessary to test the impact to measure students' characters. Follow-up of various activities and results is by measuring the actual impact on students' productivity. The characters of pre-service teachers are not limited to attitudes but to learning outcomes, including the impact on students' productivity (Darma et al., 2018; Suhaida & Idham, 2018; Wayan, 2020). Students' productivity is expected to strengthen along with strengthening students' characters.

Internalization of social culture or tradition into the education system in higher education is part of the effort to prepare prospective graduates who can be accepted into society (Chen et al., 2019). The purpose of the students' character strengthening program is not limited to attitudes but to build awareness of productive behavior because the demands of the world of work today are not limited to competence but character (Amran et al., 2020; Nurtanto et al., 2020; Serbin et al., 2020). The need for human resources in industry,

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government, and private institutions for university graduates requires information about the character of prospective employees (Hasanah, 2013; Wahab, 2016). There are concerns from campus administrators about students' politeness in communicating in lectures and extracurricular activities. Students as millennials who actively use social media through WhatsApp, Facebook, Instagram, and Twitter need to be equipped with communication ethics that are not only polite but legally literate (Awidi et al., 2019; Mulyono et al., 2021). Students' awareness of legal literacy is still weak. It can be seen from the likes or comments they give on provocative news and even hoaxes.

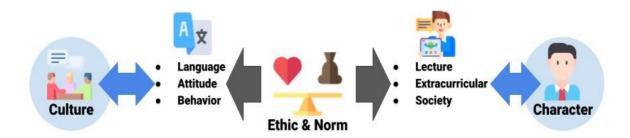
Attitudes and behaviors are formed through daily habituation on campus, in face-to-face and online activities such as during the Covid-19 pandemic. The habituation program through the internalization of social culture becomes a programmed and measurable pattern of forming characters (Fahmy et al., 2015; Suastra et al., 2017). Research state that various activities to strengthen students' characters in universities impact students' daily habits on campus (Choli, 2020; Wahono, 2018). An activity is not enough to strengthen character because it is difficult to measure the resulting impact. Measurement of students' character can be done by self-assessment and assessing others (Hulukati & Maryam, 2020). Assessment of a person's character is obtained through the others' observations so that other parties are needed to assess. Character is easy to guide but difficult to measure. Character measurement is needed to guide policymaking and measure the success of the guidance carried out (Lestari & Harjono, 2021; Sutijan et al., 2015).

The challenge of strengthening students' character during the Covid-19 pandemic is increasingly complex due to the impact of distance learning (Ibnu & Syukri, 2021; Monitorir, 2020). However, character strengthening still must be done, especially in distance learning situations. The analysis of the research results published in various journals described in this section reinforces the importance of finding strategies to form students' characters that raise awareness to strengthen their productivity. Learning oriented towards a social scientific approach by integrating examples of scientific application in social life can develop character (Kim, G., Ko & Lee, 2020). Students activities that continuously and seriously train politeness, discipline, and responsibility can shape students' character (Abdullah et al., 2015; Susanti, 2013). Character forming for students does not stop at good attitudes but is expected to impact productivity positively (Abdullah et al., 2015; Nisa & Wuryandani, 2018). Innovation is needed in various content to strengthen character, one of which is teaching materials oriented to students' characters.

Integrating teaching materials with social culture can be an option in strengthening characters (Göthberg, 2019; Hartini, S. et al., 2018). There is an increase in learning interest when it is associated with strengthening character because it encourages positive thinking about learning materials (Harzer, 2016; Lavy, 2019). Students' character-forming through habituation can be pursued through lecture activities (Fitriani, 2019; Ningsih & Maulida, 2019). The students' character strengthening activities are effectively carried out through lecture activities that integrate character in content and material delivery (Taufiqurrahman, 2018). Presenting material that emphasizes contextual learning and using authentic assessment strategies to strengthen students' characters (Nurgiyantoro & Anwar, 2013). The results of previous studies further enhance the importance of students' characters in distance learning. Distance learning must prioritize contextual studies because it has the holistic nature of learning by utilizing experience in the natural environment to make learning more useful (Bervell & Arkorful, 2020; Stojanović et al., 2021; Warsito et al., 2016).

Character strengthening in the lecture process can be intensified in service learning so that the program will be more systematic and measurable (Handoyo, 2014). Besides being formed, the achievements of characters have to be measured. Unfortunately, most character strengthening programs are still limited to actions. The character assessment is not yet

completed. Character measurement during distance learning can be done by providing online instruments that students can access and fill out. The culture integrated into this research is a habit that becomes society's tradition in behaving. Politeness in speaking, acting, dressing and several good habits in society are used to strengthen students' character. The productivity referred to in this study is the learning achievement index, delegation of competitions and activities, and participation in student organizations (Amran et al., 2020; Nurtanto et al., 2020). The rationale of the research is that when students have character, they raise awareness to work and achieve. The form of cultural integration on students' character and productivity is shown in Picture 1.

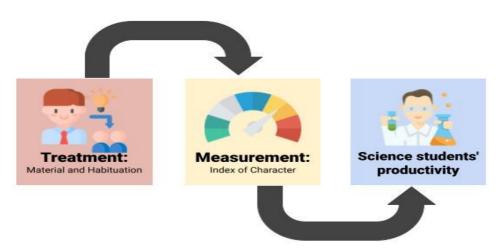


Picture 1. Cultural Integration on Students' Character and Productivity

This study aims to measure the effectiveness of cultural integration on the productivity of Mathematics and Natural Sciences students during distance learning. The main orientation is students' character-forming through the internalization of social culture tested as norms and social ethics in daily life. The students' characters formed since their studies will build a conducive academic and competitive climate so that they are expected to have a good image in the society and prospective users of graduates. The impact of students' character is students' character index as part of the graduate document in the certificate accompanying diploma. Information of students with character is expected to increase the acceptance of graduates in the world of work and society. Research about characters is needed on an ongoing basis to improve the competitiveness of graduates.

2. METHODS

The study used mixed methods, referring to (Creswell & Pioano Clark, 2007). Quantitative data were from questionnaires, and qualitative data were from interviews and document analysis. The research stages include compiling students' self-assessment questionnaire instruments, compiling interview instruments, validating instruments, developing online assessment systems, collecting data, and analyzing research data. The research targets are Mathematics and Natural Science students from 6 majors, class of 2020, at Universitas Negeri Semarang. 344 students filled out the questionnaire. After the questionnaire data was analyzed, it was deepened through interviews. Document analysis was obtained through students' social media searches. A research framework that describes what has been and what will be done during the research, from the initial stages of the preliminary study, outputs, and targeted achievement indicators, is shown in Picture 2.



Picture 2. Research Framework

The data collection method is through students filling out online instruments via the https://mipa.unnes.ac.id/v3/penilaian-diri-mahasiswa/. The website character index instrument is determined from 10 items: habituation of prayer, the language of communication, social media, discipline, guardianship, radicalism, drugs, cheating, conservation, and prayer at the end of the lecture. There are four answer choices (strongly agree, agree, disagree, and strongly disagree). The questionnaire was filled out online so that it was inevitable that other students did not influence the respondents. The document analysis was to analyze the sample of the use of language in research targets' contents on WhatsApp, Facebook, Instagram, and Twitter. The data were analyzed linguistically, and the contents got the percentage that belongs to the category of polite/kind uploads, hate speech, and hoaxes. The findings of the social media analysis were triangulated with the results of questionnaires and interviews. A correlation test was conducted to determine the relationship between strengthening students' characters and students' productivity. The test was carried out using the Statistical Package for the Social Sciences (SPSS) program.

3. RESULTS AND DISCUSSION

Result

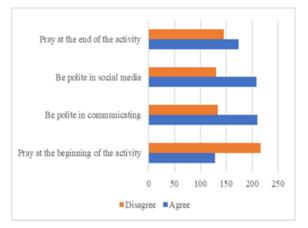
The self-assessment was carried out online with 344 students. The data is presented in Table 1.

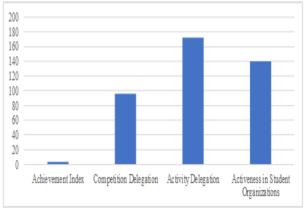
Table 1. Self-assessment of students' character

	Score			
Aspects of Character	Strongly Agree	Agree	Disagree	Strongly Disagree
I pray when I start a lecture	216	128	-	-
I always use good Bahasa to communicate with my lecturer	134	210	-	-
I use polite language on social media	130	208	4	2
I am always present on time for offline and online lectures	149	187	6	2
I actively follow guidance from the academic advisor	106	214	19	5
I do not follow radicalism	236	108	-	-
I am not a drug user	289	55	-	-

	Score			
Aspects of Character	Strongly Agree	Agree	Disagree	Strongly Disagree
I do not copy other's work in every preparation of scientific work	112	216	13	3
I, as a conservation cadre, implement conservation values	87	238	19	-
I pray when I end a lecture	145	174	23	2

Four out of the ten aspects of cultural values are integrated into the habituation of students' characters: pray at the beginning of the activity, be polite in communication and social media, and pray at the end of the activity. The data for the answer choices agree and strongly agree with the four social cultures integrated into students' character-forming are presented in Picture 3. Students' productivity due to character strengthening in this study includes students' achievement index, competition delegation, activity delegation, and activeness in student organizations. The four primary data for determining the level of students' productivity are in Picture 4.





Picture 3. Assessment Results of Cultural Integration in Students' Character

Picture 4. Students' Productivity

The relationship test between character strengthening and students' productivity obtained a correlation coefficient value of 0.59, indicating that the correlation between variables is quite strong. This research is limited to the level of relationship between the two variables. However, in this study, no hypothesis test was carried out so that the significance of the relationship between the two variables was not analyzed. In-depth interviews with research targets are required to know the analysis result of questionnaire data, students' productivity, and the relationship between character strengthening and productivity. The results of the interviews are presented in Table 2.

Table 2. Interview Results

Questions	Respondents' Answers	Conclusion
I feel the benefits of the	The habituation to behave politely	Students feel the
character program	based on Indonesian culture, which	benefits.
conducted by campus	is constantly reminded to students,	
managers.	makes good habits that need to be	
	continued.	

Questions	Respondents' Answers	Conclusion
I am more aware of getting a	There is a strong desire to get high	Students' awareness of
high achievement index.	grades in courses, but sometimes there is limited ability.	achievement is strengthened.
I participate in competition	There is a desire to participate in	It encourages the desire
delegations.	competitions according to interests and talents, but some have not achieved it.	to compete.
I participate in activity	Various activity offers, especially	It encourages the desire
delegations.	online, can be participated more efficiently from home at no cost.	to join an activity.
I am active in student	Talents can be channeled by	It encourages the desire
organization activities.	becoming a student organization administrator.	to join an organization.
I feel that there is a real	Good attitudes and behavior make	Students with character
relationship between	them aware that they are not limited	are aware of
character and the desire to	to lectures but activities outside of	achievements.
work.	lectures.	

Discussion

In this study, the social culture in terms of ethics and norms integrated into the implementation of higher education is carried out in habituation in campus life. Integration of ethics and norms movement is through verbal and written messages using various media devices. Written attributes are installed in meeting rooms, student secretariats, lecture halls, and various online media. The selection of online media used in distance learning programs considers the ease of access (Baltà-Salvador et al., 2021; Jiang et al., 2021; Schmitz et al., 2021). Messages of character habituation in remote online activities are carried out through writing on websites, social media, backdrops, backgrounds, leaflets, and verbally delivered by lecturers in learning. The selected media considers what is often used when interacting remotely with students. Media that students often access, such as websites, is the right choice as long as activities are carried out over long distances due to the Covid-19 pandemic (Batubara & Batubara, 2020; Shodiq & Zainiyati, 2020).

Measurement of students' character through self-assessment is most rationally carried out during remote activities. The chance of students communicating when doing the assessment is also small because they are not together in one room. Students always carry out habituation in praying when starting the lecture or activities because no students do not do this habituation from the data. However, it was different when ending the lecture. It was confirmed that there were still students who did not pray. From the interviews, the reasons for not praying are that they are often accidentally signed out from the platform, or the network quality was unstable before the lecture was over. Some participants felt inactive during the guidance with the academic advisor. Online meetings through available applications tend to be short for various reasons, including saving mobile data. Network constraints are the main factor in obstacles in remote activities (Bonotti & Zech, 2021; Gesú & González, 2020). The findings of this study confirm how vital the operational standards of distance lectures and activities are. Meetings through online applications must be coordinated well if to maintain the habituation of the students' characters.

In this study, the habituation of students with character is to build students' awareness about their status as students (Damanik & Setiawan, 2016; Nisa & Wuryandani, 2018). There is awareness to study diligently so that the achievement index is good, awareness to compete so that they have competitiveness, awareness to participate in non-academic activities to

channel interests and talents, and encourage leadership through activeness in student organizations. Awareness of achievement as a self-strength must be triggered by its emergence through various stimuli of learning activities (Backfisch et al., 2020; Calafato, 2020; Lothian et al., 2020). According to Picture 4, the average student achievement index is 3.28 from the range of 0.00 to 4.00, which means it is in a good category. The number of students who participate in the delegation and are active in organizations is quite a lot. Research findings show that character habituation has a contribution in building students' awareness to have achievements. Initially, the character is needed so that students can follow the learning process well (Muhtar & Dallyono, 2020; Torimtubun et al., 2020). However, today's character formation in the millennial era with social media's extensive influence makes character needed more broadly. The development of productive student character is to increase the value of graduates. The world of work in recruiting employees is not limited to requiring scientific competence but soft skills. Graduates with entrepreneurial talent also need soft skills to build a business in the digital era. With high competence and adaptive ability to apply values and norms, it is expected that graduates will be more competitive and have high competitiveness. The findings of this study become suggestions for universities that initially found it difficult to measure students' character. Various forms of students' character development activities are of no value if measurements are not taken.

4. CONCLUSION

Conclusions should, rather than just repeating results, state well-articulated outcomes of the study and briefly suggest future lines of research in the area based on findings reported in the paper.

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