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Dejan Marolov Managing Editor

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Free Education Policy and its Emerging Challenges in Sri Lanka

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Abstract

Education system plays a very crucial role in any country towards achieving a sustainable development and strengthening social, cultural, historical and integral development, and is often called as the back born of the society. Producing competent graduate, professional or technical expert and a responsible citizen enriched with social and cultural values, which eventually enhances the quality of a country's workforce, is one of the ways the education system contributes to the development of a country. Giving the due recognition to the importance of the education system that paves the way for integral development of a country, some countries have practiced and promotes a free education policy. The purpose of this paper is to explore the salient features and its evolution of the free education system in Sri Lanka and its emerging challenges for policy makers. This paper also aims at suggesting alternative strategies to overcome the challenges that are emerging from the changing global market context by pooling of views and ideas of academics and other experts in the field of education. This study expects to suggest alternative strategies to overcome the emerging issues in the free education system that would add value to the policy makers to objectively develop future strategies and policies relating to the education system of the country. In order to achieve the aforesaid objective, this study explores the existing literature relating to education systems and experts' views and authors' own experience as academics. This study demonstrates that the Sri Lankan education system requires an urgent reform to revise on a holistic approach to address emerging issues in the areas of policy making level, implementation level and supervisory and regulatory level. This study recommends providing annually a six percent from the GDP for the state education, eliminating disparities between rural and urban popular schools, timely revision of general school curriculum in order to make it best fit the changing world, promoting student centered and participatory learning environment, protecting the higher education right of the qualified students who are not absorbed by the state universities and protecting and enhancing the economic, career and social

welfare of the school teachers as the key areas that the policy makers must pay their close and urgent attention.

Keywords: Education, Education policy, Free education, School education, Sri Lanka.

Introduction

People learn from birth to death; hence it is said that 'learning' is a lifelong journey. There are different types of education, it maybe formal or informal. As far as the success of the formal education system of a country is concerned, its status of the democracy is very crucial as only in Democratic Societies and States there is an attention on education that develop personal. citizenship and professional dimension considering rights and duties of the Education system plays a crucial role in any country towards achieving a sustainable development and could be treated as the backbone of any civilized society. Schools, universities and other educational institutes can contribute immensely towards sustainable development of a country by enhancing the knowledge, skills, attitude and competencies of its workforce. Producing competent graduate, professional or technical expert and a responsible citizen enriched with social and cultural values, which eventually enhances the quality of a country's workforce, is one of the ways the education system contributes to the development of a country. While gaining the access to a formal education system has been a difficult or expensive exercise for the people in many countries, Sri Lankan government, since 1944, initiated a free education system for the public without any discrimination. The concept of free education system was initiated by honorable C W W Kannangara as the minister for education in the state council of Sri Lanka (formerly Ceylon) which was a paradigm shift in the education system in Sri Lanka. The significant influence of his free education policy resulted on the Sri Lanka state education system led him to being commonly referred as the father of the free education in Sri Lanka.

It is often seen that the term 'free education' is being narrowly defined misinterpreted by many people. The most common and popular misinterpretation is "the education that is offered free of charges". It is free such way where every citizen is enabled to access the formal national education system and letting all the citizens of the country an equal opportunity to take a part of it in order to develop a cultivated and responsible citizen. According to Jayawardena (2013), "Free Education is not only to provide 'education' at free of cost, but to provide equitable access to every child irrespective of the demography, exploit the individual strengths and cultivate good values to become a law-abiding citizen". The objective of this paper is to explore the salient features of the free education system in Sri

Lanka, its milestones, current achievements and its emerging challenges and appropriate, providing contemporary and, where issues recommendations for policy makers to counter those challenges. For this

recommendations for policy makers to counter those challenges. For this purpose, this study explores the free education policies and its implications in the context of the school education system of Sri Lanka.

It is seen that the government policy on the free education system of the country has been very sensitive topic for any political party who are contesting for general elections. Any explicit, implicit, or perceived threat to the free education system would certainly result a fatal blow for any political propaganda. During the recent past no governments have made some considerable attempts to reform this sector as it is politically sensitive. Nevertheless, there are some evidence of providing some band-aid solutions disguising the real agenda under the "socialist framework" (Jayawardena, 2013). This implies both general public and policy makers are equally paying careful attention to the free education. However, it is seen while the people concern about the quality of the education, the government and the policy makers concern more on the expense and the burden on the government budget under the heading of the education. under the heading of the education.

The role of an education system in a society

The role of education in creating, preserving and sustaining the right knowledge, skills and attitudes in the context of the social value system are knowledge, skills and attitudes in the context of the social value system are crucial for the wellbeing of any civilized society. Education systems, in general, focus on creating and dissemination of knowledge, skills and values with the view of developing and empowering a holistic and a responsible citizen. This enables them to contribute towards creating and enhancing the wellbeing of the society as a whole. The focus of the world, towards achieving the development over the time, has shifted its strategic intent from physical resources to human resources, and from information to knowledge society. In today's context, it is said that the people are living in a knowledge society where the information and knowledge plays a crucial role in the social systems towards gaining strategic and competitive advantages for a country. In a

towards gaining strategic and competitive advantages for a country. In a knowledge society, education system facilitates to transfer and sustain the knowledge and the social value system over generations.

Education system of a country, while it influences the wellbeing of the society in many ways, plays a crucial role in improving the quality of human resource, in particular, that directly influences the quality of the workforce and adding value to the economy. The view of human resources as a form of capital is not new, but it has only recently been thoroughly examined and explicitly incorporated into the stream of economic thought (Schultz, 1971). According to Green, A (1997), the role of the national state and with it the place of education is now changing. Griffin, Care and McGaw (2012) emphasize that

following a growing awareness that many countries are moving from an industrial-based to information-based economy and that education systems must respond to this change. In this context education system influences labor market outcomes with institutional settings in which such theories provide the most likely mechanism (Werfhorst, 2011). This implies that the education has a big role to play in a society in creating, preserving and transforming the knowledge over generations. It is evident that few studies have been conducted on the role of national policy makers towards uplifting the quality of educations systems in colleges and higher education institutes. According to Steven Mintz (2014), Educational system can serve as innovation incubators and it should take steps towards advancing next-generation online learning, which will play a critical role in enhancing access, affordability, student success, and institutional sustainability; and leading the way as institutions gradually develop outcomes-driven, competency-based, career-oriented educational pathways. These suggest that a traditional education system needs a complete turnaround to cope with the emerging dynamic needs of the society.

Status of the education system of Sri Lanka prior to the implementation of free education policy.

Sri Lankan traditional and orthodox education systems have been inspired and highly influenced by the Buddhist doctrines. The literature supporting to the traditional educational systems of Sri Lanka provides evidence that the Sri Lankan education system, prior to colonization, has been centralized to the Buddhist temples some of which later became Pirivenas. The Pirivenas were primarily meant for Buddhist clergy, but of the sons of the royal families and chieftains also attended for their secondary education (Hevawasam 1969). Ancient Sri Lankan's traditional life was not complex, and many people engaged in farming as their main livelihood. Technology used in farming also very orthodox and environmentally friendly. These basic technologies and related knowledge were transferred over the generations through socialization process from adults to young generations. According to David & Sethunga (2011) most Sri Lankan children did not proceed beyond elementary education and started learning some of arts or crafts to prepare for life. A farmer's son became an apprentice of the father; a mason / carpenter's son became an apprentice of his father or uncle.

Sri Lankan traditional Pirivenas based education system was collapsed to a greater extent during the British colonization period. British governors promoted Western Education promoting western culture and established several private schools to produce state workers who can speak English and embrace English values and Western culture. While the English rulers promote the Western and English education in the country, some Sinhalese

movement initiated demanding the right to education for all. This social pressure group emerged as the "Colombo Buddhist Theosophical Society" lead by Anagarika Dharmapala who was well supported by Colonel Henry Steel Olcott an American inspired by the Buddhist teaching. This Buddhist pressure group managed to establish several Buddhist Schools in different parts of the country such as Dharmaraja, Ananda, Nalanda, Dharmapala, Mahinda and Maliyadewa for boys and Mahamaya, Vishaka, Sangamiththa for girls. These schools, among others, play a leading role in Sri Lankan school education systems since then.

Census report of 1901 provides evidence that the Sri Lankan education system in the 19th century has been worsening in many fronts. According the census report, as cited by David et.al (2011), out of 867,103 children; 650,000 did not attend schools due to lack of facilities. Due to the weak relationship between the English governors and Buddhist temples funding and support were not extended by the British rulers for enhancing the education in the rural areas. The report further reveals that 60 percent of the males and 90 percent of the females in the colony were still illiterate.

Government policies on the provision of free education and its key milestones.

The introduction of free education policy in 1944 was a paradigm shift in the history of the education system in Sri Lanka. The political environment for implementing this policy was emerging as a result of the Dhonomore Commission reforms which came into effect from 1930. The implementation was by the Chair of Executive committee and the government of Sri Lanka initiated the concept of universal free education policy in 1945 aiming to provide equal opportunity for all to gain access to the education system and establishing a strong foundation for long term sustainable development in the human capital of the country. This policy initiative has been relayed and sustained by the successive governments with some innovative experiments. The government policies on the provision of the free text book program, free uniform program, Navodya school development program, free midday meal program, transportation subsidy program, grade five scholarship program, Mahapola scholarship program, Mahindodaya Laboratory and Development program have progressively contributed towards ensuring and the quality of the national education system of the country.

the national education system of the country.

Except for Mahapola scholarship program which is relevant to the state university students of the country all most all the other programs and policy decisions relevant to the primary and secondary school education of the country. This paper expects to explore the success and challenges of key government policy decisions and programs that are related to the school education of Sri Lanka implemented after 1980.

Key government policy decisions on school education implemented since 1980 and their impact on school education system of Sri Lanka.

All the governments that came to the power, since independence, have paid a keen interest in developing and improving the school education in Sri Lanka. As far as the policy decisions made by the governments in the name of free education are concerned the launching of free school text book program has been a crucial policy decision in the history of the free education system. The free text book program was launched with the objective of enhancing education quality and improving learning outcomes, particularly among children from poor families. Under this program, all students from grades 1 to 11 are provided with required text books free-of-charge by the government (Ganga M. Thilakarathne). Though it is seen government has to incur huge costs on this program accepting a considerable burden to the annual budget policy makers sees this program is one of the vital and the symbolic pillar in the free education system in Sri Lanka and not expects to curtail down its quality against cost. Nearly 4 million students, in grades 1–11 in over 10,000 government schools around the country, benefit every year from the Free School Textbook Program. Currently over 20 million textbooks, covering about 250 different subjects, are distributed annually under the program (Ganga M. Thilakarathne). Offering school text books for the school children for free of charge has encouraged and motivates students from poor families to attend school and enjoy the benefits of the free education system. Literature provides evidence that implementation of the free text book program has enhanced the enrolment rate of the students and the overall literacy rate of the country.

Free School Uniform Program that was implemented in 1993 aims at giving the students from grade 1 to 13 with a free school uniform. The type of material and the quantity received by students depends on the gender and the grade in School (Ganga M. Thilakarathne, 2006). The free school uniform program created a big positive impact on reducing student absenteeism and a great relief for the poor parents. Currently, many students from poor families have directly benefited from this program and government incurs a significant amount of funds on this annually from its recurrent expenditure on education. The Free School Uniform Program also provides benefits to approximately 4 million students, from 1–13, in over 10,000 government schools and about 600 Pirivenas schools (Ganga M. Thilakarathne, 2006).

The Navodya School Development Programme was first implemented in 1997 with the view of providing rural schools with required infrastructures and other aiding equipment. The objective of this programme was to ensure the students in the rural and less privilege areas are not underprivileged anymore and receives a quality education. Under this programme, it was expected to construct and develop at least one school for each Divisional

Secretariat. This program provided the schools with new buildings, laboratories, class rooms, libraries, etc. According to Ganga M. Thilakarathne, Navodya School Development Program aims at reducing regional disparities in education and providing quality education to rural students. It sought to develop at least one school from every DS division in the country to provide high quality education facilities. It is quite apparent that due to the funding problems and financial pressure and burden on the annual budget program has been interrupted by the lack of funds. The literature supports the provision of free school textbooks and uniforms, and the Navodya school development programme, have contributed towards improving school enrollment and attendance among the poor communities, and increasing the quality of education received by the students of the less privileged societies.

Mahindodaya programme that aimed at developing thousand secondary schools was launched in 2012 with the objective of eliminating the discriminations between the urban popular schools and the rural schools. This

Mahindodaya programme that aimed at developing thousand secondary schools was launched in 2012 with the objective of eliminating the discriminations between the urban popular schools and the rural schools. This programme was one of the greatest programmes implemented by the ministry of education under the leadership of the former President Mahinda Rajapaksha that delivered tangible benefits to rural schools while many of other projects just limited to policy papers. Under this programme thousand secondary schools were selected on a provincial basis and equipped with computer unit, language unit, mathematics and science unit and distance learning center (Nenasa Center). This programme was implemented in line with the government vision of making Sri Lanka as the education of hub is Asia. With Mahindodaya thousand secondary school development programme it was expected to have a radical change in the Sri Lankan secondary school system. With these program policy makers expected to bring the technology to the village level and create opportunities for students in the rural area to conquer the world with novel technology.

Emerging challenges in the free education system and recommendations for policy makers

Sri Lankan free education system, though it has pushed the country forward into a leading position in the South Asian region in terms of literacy rate, school enrollment rate, gender parity in education, human quality index, etc., has been criticized for not being progressively improved and developed for a long time to cope with the changing world. While some scholars criticize the policies and policy makers in this regards some scholars emphasize the weakness of the policy implementation. The absence of strong and clear-cut policy framework of state education which is consistently implemented irrespective of which ruling party govern the country has been a critical issue that need a close attention. According to Jayewardene (2013) the government has failed to create an effective regulatory framework in a timely manner, thus

leaving room in adding another layer to the existing "well known" hierarchical schooling system. The absence of such national regulatory framework is highly regrettable and dilutes the impetus for education.

It seems that political executives (cabinet ministers) seek to change and implement new education policies on an ad-h basis as and when the ruling party gets changed in the country. This creates a critical threat to the national education system of the country since it hinders implementing a long-term national education policy in a consistent manner. Further, it is apparent that there are many instances of conflicts between the professional executives (state employees) and the political executives when it comes to implement education policies. It is recommended to give more freedom and autonomy to the professional executives who possess required competency and the expertise for developing and implementing consistent and long-lasting policies that best fit for the changing world.

According to the Central Bank reports, it clearly provides evidence that there is a continuous budgetary cut down in the annual budgetary provision for the state education sector. University lecturers and other social pressure groups demands and emphasizes the importance of allocating 6% of the GDP for the state education sector. The suggested increase in the annual budgetary provision for the education sector is a must to ensure the quality of the free education system in Sri Lanka. It is recommended to pay closer attention to the demand of the academicians for increasing the budgetary provision for the state education up to 6%.

The free education policy was introduced to allow all the children in the country an equal opportunity to receive formal education. The disparity between geographical regions in education is another key problem that stimulus several adverse consequences in the primary and secondary education system in Sri Lanka. The Presidential Commission on Youth Unrest (1993) highlights "unfair distribution of schooling facilities between urban and rural sectors" as the main cause for the youth unrest and uprising against government during 1987-89. So, it is recommended for the policy makers to pay a careful attention to eliminate or minimizing the disparities in the facilities between the rural and urban schools. Improving the infrastructure facilities of the schools is a must in ensuring that students and the teachers are provided with a learning friendly environment and enhancing their pride and dignity and not being less privileged compared to the facilities enjoyed by the students of the urban popular schools.

The disparity between rural and urban popular schools creates a huge competition among parents for sending their children to the urban popular schools. It has been a big burden and stressful process for the parents to admit their children to grade one. It is recommend establishing a clear and transparent procedure for the admission of the grade one students to schools

and eliminating the opportunities for possible corruptions, malpractices and reducing the prevailing pressure on the parents with respect to the grade one admission. A sustainable solution, in this regard, would be the development and the allocation of more resources to less privileged schools and minimizing the discriminations between the popular schools in the city and the rural less-privileged schools.

Sri Lankan parents are highly concerned about their children's education and ready to spend their ultimate penny for the sake of their children's education. Sri Lankan culture is highly education oriented rather than consumption and entertainment oriented. As a result, a significant proportion of the household income is spent by the parents on their children's education despite the education is said to be free in Sri Lanka. It has been a long dream of most of the parents to send their children to a state university. However, according to the reports of the Department of Census and Statistics there are about 300,000 students annually sit for the Advanced Level Examination and approximately only a sixty percent of them are qualified for the university entrance. Nevertheless, out of these qualified students just about 15% are selected to the state universities of Sri Lanka leaving the rest of the people (85%) losing their dream to enter state university education. In addition to this student population, there is an additional student intake annually adding to this from the international schools. This gives an increasing pressure from the society as to what opportunities should be made available for these qualified young-blood to ensure their higher education rights are protected.

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The free education system is a mechanism that aims at ensuring the education right of the people and providing equal opportunity for all, including those who are willing and able to pay for a better education, an access to the higher education services. During the recent past the middle-income class householders have expanded and they are willing to pay getting the access for a fee levied higher education. Especially the students who are annually passing out from the international schools and the students who qualified for the state university entrance but cannot to enter the state university system due to lack of government resources are highly frustrated and treated unfairly according to the prevailing free education system. It is the direct responsibility of the government and the policy makers to develop a realistic strategy to address this issue before it is being another social unrest in the near future. However, this matter should be solved carefully without being jeopardized the existing free education system that brings the benefits for the vast majority of people in the country.

Despite there is an emerging demand and social pressure for establishing private universities in certain fields of studies, the concept of private universities has been severely criticized and opposed by the majority of state university students' movements and some of the social pressure

groups. This has been one of the biggest issues with respect to Sri Lankan free education system, which hinders the education right of some people, for which academics and other policy makers need to pay an urgent attention. One of the solutions for this would be increasing the annual university entrance intake while allocating additional resources to universities to accommodate them. Sri Lanka currently has 15 state universities and considerable numbers of state higher education institutes that provide higher education opportunities. Establishing new national universities to accommodate for more students qualified for university education is another alternative solution in this regard. Nevertheless, if establishing new universities is a burden to the government recurrent budget owing to financial difficulties, it can be recommended to establish some fee levying government universities to provide higher education services at an affordable price.

According to Illeperuma (2015), a proper education system should suit our own need but has not changed according to the global changes in education. There are big criticisms from many parties that the school curricular is not updated to suit with the changing world and Sri Lankan school education is highly teacher centered rather than student centered limiting the opportunities for the students to engage in active and participatory learning process. It seems some of their criticisms are not constructive. In many cases, policy makers on school education at the national and provincial level have taken some satisfactory efforts to bring the school curricular suit to the modern world. Nevertheless, revising the school curricula is an ongoing continual process that should be carefully made on a timely basis by the experts in the government education service who have the required expertise in the education science rather than complete outsiders who are alien to the Sri Lankan education system.

Poor physical and mental health of the school students due to heavy workload, competition, and pressure from the parents for getting better results is another issue that has not been cared and concerned by the policy makers. So, it is recommended to consider the impact of the workload on the students' physical and mental health and divert the focus from classroom learning to activity-based learning. Educational scientists and psychological experts advise that students should be given adequate leisure time to contact with the environment. The annual school term calendar should be carefully set appropriately allocating adequate time for the holiday vacations for the students. For instance, the start of the Sinhala and Tamil new year vacation, which is the Sri Lankans traditional new year ceremony celebrated by many people in the country, drag down to the second week of the month of April, leaving the students have no adequate time to enjoy their new year with relatives and ease-off their mental pressure.

Despite the government spends millions of funds on free education, it Despite the government spends millions of funds on free education, it is seen that students have not been given the due recognition for the services they enjoyed from the free education. For example, this issue is very significant among the advanced level students who are studying in grade twelve and thirteen. This is mainly because students over reliance on the private tuition and attending to private institutes sacrificing their opportunity to study in the school classes. As a result, much more resources of government schools are underutilized, and it forgoes the opportunity of private college students who would really in need to enjoy the free education by attending government schools.

In the recent past, it seems that politicians tend to use government schools as ready-made places for political appointments for job schemes. School teachers play a very crucial role in the society in molding the future generation of any country. Teachers need to be carefully and scientifically selected for the school education service rather than selecting people for the sake of providing a job opportunity. It is recommended to establish the expected minimum standard for entry qualification for the school education system. This minimum education qualification would be a Degree or equivalent qualification from a recognize university or similar higher education institute. education institute.

During the recent past, school teachers have been less privileged in terms of their low salary, lack of training and development opportunities and no insurance cover, leaving them highly vulnerable in case of an emergency. So, it is recommended to increase the school teachers' salary to a level reasonably adequate to ensure attracting and retaining the right people in the school system and periodically offer them with training opportunities locally or overseas. Further, there should be a clear career development path for the school teachers and a transparent mechanism for the promotions such as promoting to the position of principal. Further, it is recommended that the periodic transfers of teachers should be made more transparent, scientific, and fair manner.

Conclusion

Education system of a country plays a crucial role in achieving a sustainable and integral development and it is treated as the backbone of any civilized society. Producing competent graduate, professional or technical expert and a responsible citizen enriched with social and cultural values, which eventually enhances the quality of a country's workforce, is one of the ways the education system contributes to the development of a country. Free education policy aims at providing equitable right to every child to access and benefits from education and making a responsible and resourceful citizen to the society. It is clear that all past and present governments of Sri Lanka have

merely attempted to provide the education 'free of cost' rather than protecting the everyone's right to access to a 'quality education'. So, it can be concluded that both the 'equitable right' and the 'quality of education' has be compromised by the Sri Lankan education policy makers. Though, the free education policy has enabled Sri Lanka to be at the forefront in the South Asia in terms of literacy rate, school enrolment rate and gender parity in education, it has been criticized for not being progressively developed to cope with the changing world. At the policy making level, one of the key issues in the Sri Lankan education system is that the cabinet ministers tend to change the education policies on an add-hog basis as and when governments change. So, it is recommended to give more freedom and autonomy to the professional executives (i.e., state officers rather than cabinet ministers) who possess required competency and the expertise for developing and implementing consistent and long-lasting policies that best fit for the needs of the changing world. There is an increased concerned by both the academia and the educationalists on the allocation of funds from the annual budget that tends to reduce during the recent past. In order to achieve and maintain the expected quality of education it is recommend to increase the allocation of funds to state education up to 6% of the GDP. In particularly, lack of resources at rural schools, teacher centered learning environment, heavy student work load, lack of university entrance opportunity for those who qualify to enter universities from both public and private schools, changing education policies by the politicians on an ad hoc basis, lack of opportunity for school teachers for career development and low salary for school teachers, are some of the key issues that education policy makers and practitioners have to pay their close attention. It is recommended to policy makers to consider as to whether modern technology could be used to overcome majority of these issues more efficient and effective manner. For example, use of cloud computing to share teaching and learning material between rural and city schools, distance learning methods to allow the students from rural school to virtually attend and benefit from city school teachers' services etc.

In conclusion, it could be emphasized that the Sri Lankan education system requires an urgent reform or a revision on a holistic approach to address some key issues in the areas of policy making level, implementation level and supervisory and regulatory level. It is crucial that the country need to have an unambiguous long-term national policy on school and higher education clearly articulating its long-term goals and strategies. Thus, it is recommend that providing annually a 6% from the GDP for the state education; eliminating disparities between rural and urban popular schools by enhancing the facilities in the rural schools; timely revision of school curricular to best fit the changing world; promoting student centered, participatory and active learning environment; protecting the higher education right of the qualified students

who are not absorbed by the state universities; protecting and enhancing the economic, career and social welfare life of the school teachers; among others, are the key areas that the policy makers must pay their urgent attention. Changing world, creates both challenges and opportunities and education policy makers are recommended to consider as to how to strategically fit both opportunities and threats to ensure that Sri Lankan education system is progressively moving ahead to meet the emerging challenges of the modern world.

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An Investigation of Interpersonal Problem Solving in University Students in Terms of Personality Traits, Resilience and Hope

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Abstract

This study's goal is to examine the relationship between interpersonal problem-solving approaches and personality traits, resilience, and hope levels in university students. Four hundred and one [234 (58.4%) female, 167 (41.6%) male] university students participated in the study. The data were collected using the Interpersonal Problem Solving Inventory, Big Five Inventory, Brief Resilience Scale, and Dispositional Hope Scale. In the study, the relationship between the variables was examined by correlation analysis. Hierarchical regression analysis was conducted to determine the predictability of personality traits, resilience, and hope on interpersonal problem-solving approaches. As a result of the study, a significant positive relationship was identified between approaching problems in a negative way, the lack of selfconfidence, and unwillingness to take responsibility and neuroticism, while a significant negative relationship was found between extraversion, agreeableness, responsibility, openness to experiences, resilience, and hope. On the other hand, a significant negative relationship was observed between constructive problem solving and the insistent-persevering approach and neuroticism, while a significant positive relationship was found between extraversion, agreeableness, responsibility, openness to experiences, resilience, and hope. Furthermore, it was determined that neuroticism and resilience significantly explain approaching problems in a negative way; agreeableness, responsibility, openness to experiences, and hope significantly explain constructive problem solving; agreeableness, responsibility, and hope significantly explain the lack of self-confidence; the personality traits of neuroticism and agreeableness significantly explain unwillingness to take responsibility; and agreeableness, openness to experiences, and hope significantly explain the insistent-persevering approach.

Keywords: Interpersonal problem solving; Personality traits; Resilience; Hope.

Introduction

An individual, a social living being, experiences conflict due to many reasons in his/her life. Interpersonal conflict is a natural and inevitable part of human life and relationships since the perspectives, thoughts, and value judgments of individuals differ (Çam &Tümkaya, 2008). Interpersonal conflict is defined as interpersonal interaction expressing opposite views or ideas, and it is stated that interpersonal conflict expresses the interpersonal problem situation. Interpersonal problem solving is defined as a cognitive and behavioral process, in which the difference between the current situation and the situation desired to be reached in the interpersonal relationships is perceived and which involves efforts to eliminate the tension caused by this (Çam & Tümkaya, 2007).

It is stated that individuals can use various interpersonal problemsolving approaches and skills in case of experiencing interpersonal problems or conflict (Johnson & Johnson, 1996). According to the study conducted by Cam and Tümkaya (2007) who evaluate interpersonal problem solving within the scope of social problem solving, there are five dimensions of interpersonal problem solving, including approaching problems in a negative way, constructive problem solving, the lack of self-confidence, unwillingness to take responsibility, and insistent-persevering approach. In the case of interpersonal problems, negative emotions and thoughts such as pessimism, despair, and sadness constitute approaching problems in a negative way, and emotions, thoughts, and behaviors that contribute to the effective and constructive solution of a problem constitute constructive problem solving. The mistrust that individuals experience in the solution of their problems expresses the lack of self-confidence, while unwillingness to take responsibility necessary for the solution of the problem expresses not taking responsibility, and insistent-persevering thoughts and behaviors in the solution of the problem represent the insistent-persevering approach (Cam & Tümkaya, 2007; 2008).

Which one of the above-mentioned approaches will be used in the process of interpersonal problem solving may be influenced by many factors. One of the factors that determine the interpersonal problem-solving approaches of individuals can be thought to be personality traits because personality traits affect many behaviors of individuals, and individuals with different personality traits use different conflict resolution strategies (Park & Antonioni, 2007). Furthermore, many studies indicate personality traits as the determinant of interpersonal problem-solving approaches (Arslan, 2016;

Dündar, 2009; D'Zurilla, Maydeu-Olivares & Gallardo-Pujol, 2011; Isaksen, Kaufmann & Bakken, 2016; Jaffee & D'Zurilla, 2009; Koruklu, 2015; McMurran, Egan, Blair & Richardson, 2001). Personality is defined as consistent behavior patterns originating from the individual and in-person processes (Burger, 2006). There are many theories in the literature on explaining personality, and it is observed that the five-factor personality traits approach that focuses on individual differences and observable behaviors comes to the fore. This approach reveals a five-factor personality structure, including extraversion, neuroticism, agreeableness, responsibility, and openness to experiences (Costa & McCrae, 1995).

It is stated that university students are in the developmental period of adulthood and may experience various interpersonal problems during this period (Arnett, 2000). Interpersonal problems may influence the physical, mental, and social health of students. Resilience is stated to be an important factor that protects against the adverse effects of interpersonal problems and presents effective coping skills (McGillivray & Pidgeon, 2015; Zhao, Guo, Suhonen & Leino-Kilpi, 2016). Furthermore, some studies reveal the positive relationship between problem solving and resilience (Diker-Çoşkun, Garipağaoğlu & Tosun, 2014; Samsari & Soulis, 2019). Resilience is defined as the individual's adaptability and coping ability with negative experiences (Block & Kremen, 1996; Masten, 2001). Resilience is a dynamic process with risks and protective factors. Risk factors are variable, and adverse life events (Masten, Best & Garmezy, 1990) and conflicts experienced (Durlak, 1998) are stated to express personal risks. On the other hand, it is indicated that effective communication skills and healthy interpersonal relationships constitute internal protective factors (Olsson, Bond, Burns, Vella-Brodrick & Sawyer, 2003).

In addition to the personal factors mentioned above, hope also has a significant impact on coping with problems that individuals encounter in their daily lives because hope makes it easier to solve problems and cope with loneliness (Snyder, Feldman, Taylor, Schoeder & Adams, 2000). At the same time, it is stated that people with high levels of hope focus on the purpose rather than failure and trust adaptive coping strategies in case of a possible problem (Snyder, Harris, Anderson, Holleran, Irving, Sigmon, Yoshinobu, Gibb, Langelle & Harney, 1991). Hope is addressed as a cognitive and motivational structure that reflects the perceptions of individuals of their capacities. This structure has two dimensions, pathways and agency. Agency is defined as wanting to reach the goal and feeling the power to reach the goal. The pathways dimension contains the individual's beliefs about himself/herself in making plans and finding different ways to reach his/her goals (Cheavens, Feldman, Woodward & Snyder, 2006; Snyder, 2002).

It is essential to determine personal traits and psychological factors that will contribute to the effective coping of university students with interpersonal problems because it is expected that mental health specialists working at the psychological counseling centers of universities can obtain information that will shed light on studies to be conducted on students experiencing interpersonal problems by examining the factors that affect the interpersonal problem-solving approaches of university students. Moreover, it is of great importance to determine factors that affect the interpersonal problem-solving approaches of university students in a Turkish sample because, according to the data of the Council of Higher Education, approximately 7.5 million university students were receiving formal education in Turkey in 2018 (Council of Higher Education [CHE], 2018). Therefore, these research findings may constitute a resource for determining psychological factors that contribute to the positive interpersonal problem-solving approaches and skills in case of experiencing possible interpersonal problems by university students and preventive studies to be carried out in this field. Furthermore, there are no studies in which personality traits, resilience, and hope were addressed together as the variables observed to be related to interpersonal problem solving. Thus, it is thought that this study can contribute to the accumulation of knowledge and literature on interpersonal problem solving. This study was conducted to determine the relationship between the interpersonal problemsolving approaches of university students and their personality traits, resilience, and hope levels.

Method

Participants and procedure

A convenience sampling method was used in this study. Four hundred and one [234 women (58.4%), 167 men (41.6%)] volunteer students studying at a university in the Eastern Anatolia Region of Turkey participated in the study. The age range of the participants was between 18 and 34, the age mean was 21.24 years, and the standard deviation of the ages was 2.08. Of the participants, 193 (48.1%) study in formal education programs in the second grade and 208 (51.9%) in the third grade. The questionnaires were administered to classroom groups (60 to 80 students) in the classroom. Any promise of reward was not given to the participants. It took about 30 to 35 min for each participant to complete the measures.

Measures

Interpersonal Problem Solving Inventory: This inventory was developed by Çam and Tümkaya (2007) to measure problem-solving approaches and skills among university students with the age range of 18-30 years. The IPSI consists of 50 items and five subscales: approaching problems

in a negative way (e.g., I feel helpless when I have a problem), constructive problem solving (e.g., I try to find more than one solution to solve a problem), the lack of self-confidence (e.g., When I have a problem, I can't change my situation no matter what I do for a solution), unwillingness to take responsibility (e.g., When I have a problem with someone I do not try to change the situation unless the other party apologizes), and the insistent-persevering approach (When I have a problem in my interpersonal relationships, I absolutely try to solve the problem). Each item is rated in the range of 1 (strongly disagree) and 5 (strongly agree). Cronbach's alpha for the IPSI subscales ranged from .67 to .91.

Big Five Inventory: Developed by Benet-Martinez and John (1998) and adapted to Turkish by Sümer and Sümer (2005), the inventory consists of 44 five-point Likert-type items and five sub-dimensions: extraversion, neuroticism, agreeableness, responsibility, and openness to experiences. The items of the scale are scored as "Disagree strongly" (1 point), "Disagree a little" (2 points), "Neither agree nor disagree" (3 points), "Agree a little" (4 points), "Agree strongly" (5 points). Cronbach's alpha coefficients of the subscales for the sample, according to which Turkey is also in the Middle East, were found to be .74 for extraversion, .76 for neuroticism, .67 for agreableness, .77 for responsibility, and .75 for openness to experiences.

were found to be .74 for extraversion, .76 for neuroticism, .67 for agreableness, .77 for responsibility, and .75 for openness to experiences. **Brief Resilience Scale:** Resilience was measured by the Brief Resilience Scale (BRS; Smith et al., 2008), which was designed to assess the ability to bounce back or recover from stress. The BRS is a 6-item Likert-type scale (I tend to bounce back quickly after hard times). Responses were made on a 5-point Likert-type scale (1 = Strongly disagree, and 5 = Strongly agree). Higher scores indicate greater resilience. The Turkish version of the BRS was adopted by Doğan (2015). Doğan reported that the Turkish version of the BRS had acceptable reliability (Cronbach's alpha: 0.83) and validity (CFA: $\chi 2/df = 1.83$, NFI = 0.99, NNFI = 0.99, CFI = 0.99, IFI = 0.99, RFI = 0.97, GFI = 0.99, AGFI = 0.96, RMSEA = 0.05, and SRMR = 0.03).

Dispositional Hope Scale: Hope was measured by the Dispositional Hope Scale (DHS; Snyder et al., 1991), which was designed to assess an individual's general or characteristic level of hope. The DHS is a 12-item scale including a four filler items questionnaire that generates scores based on two subscales: agency (e.g. my past experiences have prepared me well for my future) and pathway (e.g. I can think of many ways to get the things in life that are important to me). Responses were made on an 8-point Likert-type scale (1 = Definitely false and 8 = Definitely true). Higher scores indicate greater hope. The Turkish version of the DHS was adopted by Tarhan and Bacanlı (2015). Tarhan and Bacanlı reported that the Turkish version of the DHS had acceptable reliability (Cronbach's alpha: 0.84) and validity (CFA: GFI = 0.96, AGFI = 0.92, NNFI = 0.94, RFI = 0.90 CFI = 0.96, and RMSEA = 0.077).

Data analysis

Correlation analysis and hierarchical regression analysis were performed using the IBM SPSS Statistics 22 program in the analysis of the data. It is stated that skewness and kurtosis values between +1.5 and -1.5 are sufficient criteria for the data to show normal distribution (Tabachnick & Fidell, 2013). When the skewness and kurtosis values of the variables in Table 2 are examined, it can be said that the distribution of the points of the variables provides the assumption of normality. Hierarchical regression analysis was conducted to determine whether the interpersonal problem-solving approaches of university students were predicted by personality traits, resilience, and hope. We reviewed the suitability of the data for regression analysis. Firstly, the ratio of the number of participants (401) included in the data set to the number of independent variables (7) was determined to be 57.28 to determine the sample size. This value meets the criteria of Tabachnick and Fidel (2013), according to which the ratio of the number of data/number of independent variables determined for the sample size should be 40/1. Secondly, the relationship between interpersonal problem solving and predictive variables was determined by scattering diagrams, which are linear. Furthermore, histogram and normal distribution graphs revealed that the data did not show significant deviations from normality. Thirdly, for the multivariate normality assumption, the Mahalanobis distance values were determined, and it was observed that there were no data above the distance values criterion values [according to x2(7) = 23.61, p = .001]. Fourthly, to determine whether there were multiple linear connections between the continuous variables of the study, the Pearson correlation coefficients were calculated, and the obtained coefficients were between -.53 and .58. These correlation coefficients show that there are no multiple connection problems between the variables examined in the study (Montgomery, Peck & Vining, 2014).

Results

In accordance with the purpose of the study, firstly, correlation analysis was performed to determine the relationship between the interpersonal problem-solving approaches and skills of university students and their personality traits, resilience, and hope levels, and the results are presented in Table 1. Then, the dimensions of interpersonal problem solving were addressed separately, and hierarchical regression analysis was conducted to reveal which ones of the predictive variables and to what extent were explained by personality traits, resilience, and hope. While performing regression analysis, the personality traits in the first model were entered into the analysis, and resilience in the second model and hope in the third model were included in the analysis. The results obtained in the analysis are presented in Table 2.

A significant positive relationship was found between approaching problems in a negative way, the lack of self-confidence, and unwillingness to take responsibility and neuroticism (between r=.18,.51), and a significant negative relationship was found between extraversion, agreeableness, responsibility, openness to experiences, resilience, and hope (between r = -.15, -.53). On the other hand, a significant negative relationship was determined between constructive problem solving and the insistentpersevering approach and neuroticism (between r=-.17, -.27), and a significant positive relationship was identified between extraversion, agreeableness, responsibility, openness to experiences, resilience, and hope (between r=.17, .49). Furthermore, no significant relationship was found between approaching problems in a negative way and agreeableness (Table 1). Table 2. Hierarchical Regression Analysis Results Regarding Prediction of Interpersonal

Problem Solving

_	Predictor			APN					CPS					LSC					UTR					I-PA		
Model	Variables	В	в	t	R ²	Δ R ²	В	В	t	R ²	Δ R ²	В	В	t	R ²	ΔR^2	В	β	t	R ²	ΔR^2	В	В	t	R ²	Δ R ²
_	Constant	20.05		3.12*			13.45		2.56*			24.93		9.02*			18.23	<u> </u>	7.57*			7.21		3.11*		
1	E	25	10	-2.25*			.13	.06	1.48	.31	.30	08	08	-1.68	.12	11	06	08	-1.60	-1.60 2.96* -3.50* .11		.05	.07	1.39		
	N	1.12	.47	10.27*			19	09	-2.15*			.06	.07	1.46			.12	.15	2.96*		.10	02	03	74		
	A	.22	.08	1.85	.28	.27	.36	.17	3.66*			14	14	-2.83*			15	18	-3.50*			.13	.15	3.03*	.16	.15
	R	11	05	-1.00			.37	.19	3.89*			17	18	-3.34*			07	09	-1.62			.10	.14	2.55*		
	OE	07	03	62			.48	.27	5.31*			01	01	32			.00	.00	.08			.12	.17	3.17*		
2	Constant	43.51		6.40*			6.25		1.06			26.94		8.64*			19.94		7.34*			5.37		2.06*		
	E	06	02	58			.08	.04	.83			06	07	-1.31			05	06	-1.24			.04	.05	1.00		
	N	.73	.30	6.35*	.36 .3		07	03	72	.32	.31	.03	.03	.67			.09	.11	2.02*	02* .59* .12	.11	.00	.00	.02	.17	
	A	.16	.06	1.41		.36	.37	.17	3.87*			15	15	-2.93*	.13	.11	16	18	-3.59*			.13	.16	3.14*		.16
•	R	12	05	-1.12	.50	.50	.37	.19	3.94*			17	18	-3.36*			07	09	-1.63			.10	.14	2.56*		.10
	OE	05	02	47			.48	.26	5.28*			01	01	28			.00	.00	.12			.12	.17	3.13*		
	Resilience	97	35	-7.41*			.29	.13	2.63*			08	07	-1.38			07	07	-1.35			.07	.08	1.51		
_	Constant	43.76	55	6.44*			5.49	.13	.95			27.24	07	8.85*			19.95	07	7.33*			5.19	.00	2.00*		
	E	05	02	52			.05	.02	.63	.35	.34	05	06	-1.16			05	06	-1.22			.03	.04	.89		
	N	.73	.30	6.34*			06	03	67			.03	03	.62			.09	11	2.01*	53* .12	.10	.00	.00	.06		
	A	.18	.07	1.57			-31	.15	3.31*			12	12	-2.48*	.15	.14	16	18	-3.53*			.12	.14	2.80*		
3	R	08	03	73	.37 .37	.37	.25	.13	2.66*			12	12	-2.46*			07	09				.08	.14	1.83	.18	.17
	OE .	08		/3			.23	.13					13	-2.30° .57				.01	-1,52 .16				.10			
	Resilience	01 92	00						4.09*			.02					.00					.10		2.44*		
			34	-6.85*		.16	.07	1.45			03	02	49			.06	07	-1.27			.04	.04	.85			
	Норе	09	06	-1.28			.27	.23	4.55*			11	20	-3.40*			00	00	15			.06	.14	2.43*		

n=401, **p<.01 *p<.05, APN (Approaching Problems in a Negative Way), CPS (Constructive Problem Solving), LSC (Lack of Self-Confidence), UTR (Unwillingness to Take Responsibility), I-PA (Insistent-Persevering Approach), E (Extraversion), N (Neuroticism), A (Agreeableness), R (Responsibility), OE (Openness to Experiences)

Agreeableness (β = -.12, p<.05), responsibility (β =-13, p<.05), and hope (β = -.20, p<.05) significantly predict the lack of self-confidence and explain 14% (Δ R²=.13) of the total variance ($F_{(394,6)}$ =10.00, p<.001). Neuroticism (β =.11, p<.05) and agreeableness (β =-.18, p<.05) significantly predict unwillingness to take responsibility and explain 10% (ΔR^2 =.10) of the total variance ($F_{(394,6)}$ =7.54, p<.001).

Agreeableness (β =.14, p<.05), openness to experiences (β =.14, p<.05), and hope (β =.14, p<.05) significantly predict the insistent-persevering approach and explain 17% (ΔR^2 =.17) of the total variance ($F_{(394,6)}$ =12.30, p<.001).

Discussion

In this study, the relationship between the interpersonal problemsolving skills and approaches of university students and their personality traits, resilience, and hope levels was investigated. According to the first finding of the study, a significant positive relationship was found between approaching problems in a negative way and neuroticism, and a significant negative relationship was found between extraversion, responsibility, openness to experiences, resilience, and hope. Furthermore, neuroticism and resilience were found to be significant predictors of approaching problems in a negative way. These findings indicate that university students with a high level of neuroticism and a low level of resilience have ineffective problem-solving approaches and are consistent with the findings of previous studies (Arslan, 2016; Ertekin-Pınar, Yıldırım & Sayın, 2018; Jaffee & D'Zurilla, 2009). Neuroticism refers to being anxious and mistrustful (Burger, 2006). It is possible that people with a high level of neuroticism do not trust and are pessimistic about the fact that they can solve problems and easily worry when they encounter any problems (D'Zurilla & Chang, 1995). Moreover, since they tend to pay more attention emotionally to negative events, they will likely respond negatively to interpersonal conflicts (Gunthert, Cohen & Armeli, 1999). Therefore, it can be stated that university students with high levels of neuroticism do not trust themselves in problem solving and tend to avoid or ignore the problem instead of solving it. Furthermore, it can be said that people with high extraversion, responsibility, and openness to experiences, in terms of the personality structure, adopt approaching problems in a negative way less in interpersonal problem solving. On the other hand, it can be said that university students with low resilience are less likely to protect themselves by activating their protective mechanisms and sources of coping with challenging events they encounter (Conner & Davidson, 2003). These results show that university students with a high level of neuroticism and a low level of resilience are less likely to cope with the problems they encounter.

As a result of the study, a significant positive relationship was found between constructive problem solving and extraversion, agreeableness, responsibility, openness to experiences, resilience, and hope, and a significant negative relationship with neuroticism was found. Furthermore,

agreeableness, responsibility, openness to experiences, and hope were found to be significant predictors of constructive problem solving. This result obtained is consistent with the findings of the previous research (Arslan, 2016; Chang, 1998; Diker-Çoşkun, Garipağaoğlu & Tosun, 2014; Major, Richards, Cooper, Cozarelli & Zubek, 1998; Li & Yang, 2009; Li & Nishikawa, 2012; Li, Eschenauer & Yang, 2013; Park & Antonioni, 2007). Moreover, the personality dimensions of extraversion, agreeableness, responsibility, and openness to experiences explain constructive problem solving. Extraversion refers to being positive, social, sociable, and dominant (Moberg, 2001; Park & Antonioni, 2007). People with high levels of extraversion adopt more constructive problem-solving approaches in case of conflict (Jensen-Campbell, Gleason, Adams & Malcolm, 2003). People with a high level of agreeableness have a positive attitude toward maintaining social relationships (Jensen-Campbell & Graziano, 2001). They attach more importance to cooperating and reaching a consensus (Moberg, 2001; Park & Antonioni, 2007). People with high levels of responsibility maintain interpersonal relationships successfully and feel more responsibility toward their environment in case of potential conflict (Jensen-Campbell & Malcolm, 2007). People with high levels of openness to experiences exhibit conflict resolution behaviors by facing conflict instead of avoiding conflicts (Antonioni, 1998). Furthermore, individuals with a high level of resilience exhibit positive attitudes toward the difficulties of life and take action to solve the problem (Li & Yang, 2009; Li & Nishikawa, 2012). People with a high level of hope rely on effective coping strategies when they face difficulties (Snyder et al., 1991). These results demonstrate that university students with high levels of agreeableness, responsibility, openness to experiences, and hope use more constructive problem-solving skills to cope with the problems they high levels of agreeableness, responsibility, openness to experiences, and hope use more constructive problem-solving skills to cope with the problems they encounter.

As a result of the study, a significant positive relationship was determined between the lack of self-confidence and neuroticism, and a significant negative relationship was identified between extraversion, agreeableness, responsibility, openness to experiences, resilience, and hope. Moreover, agreeableness, responsibility, and hope were found to be significant predictors of the lack of self-confidence. Previous studies support the findings of our study. For example, Arslan (2016) determined a significant positive relationship between the lack of self-confidence and neuroticism and a significant negative relationship between extraversion, agreeableness, responsibility, and openness to experiences. Chang (1998) stated that there was a significant negative relationship between the hope levels of university students and the avoidant approach. Furthermore, in the studies conducted by Vatan and Dağ (2009) and Oğuztürk, Akça, and Şahin (2011) in the Turkish sample, the researchers revealed a significant positive relationship between

avoidant problem-solving approaches and despair. The lack of self-confidence indicates the lack of individuals' self-confidence in solving a problem (Çam & Tümkaya, 2007). Since neurotic individuals experience mistrust of that they can solve a problem (D'Zurilla & Chang, 1995), they may experience the lack of self-confidence in case of a possible conflict. At the same time, mistrustful individuals are expected to have less extraversion, agreeableness, responsibility, and openness to experiences. Furthermore, it is stated that a high level of resilience is the indicator of a high level of self-confidence (Ertekin-Pınar, Yıldırım & Sayın, 2018) and the full functioning of hope at a high level (Martin, 2007). Thus, individuals with low levels of resilience and hope may experience mistrust in themselves concerning problem solving. These results show that university students with low levels of agreeableness, responsibility, and hope will experience more mistrust concerning interpersonal problem solving.

As a result of the study, a significant positive relationship was found between unwillingness to take responsibility and neuroticism, and a significant negative relationship was found between extraversion, agreeableness, responsibility, openness to experiences, resilience, and hope. The personality traits of neuroticism and agreeableness were also found to be significant predictors of unwillingness to take responsibility. This finding indicates that university students with a high level of neuroticism and a low level of agreeableness do not take responsibility to solve interpersonal problems and is consistent with the findings of the previous studies in the literature (Arslan, 2016; Chang, 1998). Since neurotic individuals tend to avoid or ignore a problem instead of solving it (Moberg, 2001), it can be considered as an expected result that they adopt not taking responsibility instead of solving interpersonal problems. Since individuals with low levels of agreeableness are associated with hostile, competition-loving, stubborn, rude, and skeptical personality traits (Graziano, Jensen-Campbell & Hair, 1996), it is possible that individuals with low levels of agreeableness do not take responsibility for the solution of interpersonal problems. On the other hand, individuals who adopt not taking responsibility are expected to have less extraversion, agreeableness, responsibility, and openness to experiences personality traits because it is stated that people with high levels of extraversion, agreeableness, responsibility, and openness to experiences, adopt the confrontation approach in conflict resolution due to the personality structure (Basım, Çetin & Tabak, 2009). These results show that university students with a high level of neuroticism and a low level of agreeableness take less responsibility for the solution of interpersonal problems.

According to the final finding of the study, a significant negative relationship was found between the insistent-persevering approach and neuroticism, while a significant positive relationship was found between

extraversion, agreeableness, responsibility, openness to experiences, resilience, and hope. Furthermore, agreeableness, openness to experiences, and hope were found to be significant predictors of the insistent-persevering approach. This finding is consistent with the findings of the previous studies in the literature (Arslan, 2016; Chang, 1998; D'Zurilla, Chang, Nottingham & Faccini, 1998). It is stated that people with a high level of agreeableness adopt more constructive conflict resolution strategies (Jensen-Campbell, Gleason, more constructive conflict resolution strategies (Jensen-Campbell, Gleason, Adams & Malcolm, 2003), while people with a high level of openness to experiences adopt consensus and cooperation approaches among conflict resolution approaches (Moberg, 2001; Park ve Antonioni, 2007). Therefore, people with more personality traits of agreeableness and openness to experiences are likely to exhibit insistent-persevering thoughts and behaviors for the solution of interpersonal problems. It is also stated that students with a high level of hope have more problem-solving skills (Chang, 1998). These results demonstrate that university students with high levels of agreeableness, openness to experiences, and hope are insistent and patient in solving interpersonal problems. interpersonal problems.

Conclusion

The results of this study contribute to a better understanding of the relationship between interpersonal problem solving, personality traits, resilience, and hope. According to the findings, it can be said that university students with high levels of extraversion, agreeableness, responsibility, and openness to experiences and a low level of neuroticism exhibit more effective interpersonal problem solving approaches and skills in case of interpersonal problems. At the same time, it can be said that students with high levels of resilience and hope have more effective problem solving skills. On the other hand, it can be concluded that university students with a high level of neuroticism and low levels of resilience and hope adopt more negative interpersonal problem solving approaches. Moreover, it was observed that the interpersonal problem solving approaches. Moreover, it was observed that the personality traits of agreeableness and openness to experiences and hope predict interpersonal problem solving skills (CPS, I-PA). This result supports the idea that agreeableness is an important personality trait in terms of preserving and maintaining social relationships, and openness to experiences is an important personality trait in terms of reaching an effective and constructive solution of interpersonal problems. On the other hand, the fact that the personality trait of neuroticism predicts negative interpersonal problem solving approaches (APN, UTR) supports the view that individuals with this personality trait tend to avoid problems instead of solving them since they do not believe and are pessimistic about the fact that the problem can be solved.

Limitations and Future Directions

This study has some limitations. The first limitation of this study is the collection of data by the self-report method, which may reduce the internal validity. Collecting data by using more than one method (for example, interview and observation) may help to reduce the impact of subjectivity. The second limitation is the fact that the participants consist of students of a university in the Eastern Anatolia Region of Turkey. Therefore, the generalizability of the findings of this study is limited. Conducting similar studies by using different populations and larger samples can help increase the generalizability of results. The third limitation is that the relationships observed between the predicting and predicted variables were not interpreted as casual relationships since the study was conducted with a relational screening design.

Finally, some suggestions can be made to researchers and practitioners based on the findings of this study. Regarding future research, comparative studies can be conducted by examining the interpersonal problem solving approaches and skills of individuals in different developmental periods. This study can be repeated in larger samples with more heterogeneous features in terms of interpersonal problem solving. In addition to these, qualitative studies can be carried out to obtain more in-depth information about interpersonal problem solving approaches. In studies to be conducted for improving the interpersonal relationships with university students, individual and group psychological counseling practices can be performed for interpersonal problem solving with students with a high level of neuroticism. Moreover, it can be expected that students' tendencies to approach interpersonal problems in a negative way, the lack of self-confidence, and unwillingness to take responsibility can be reduced with studies aiming to increase resilience and hope.

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